

EQ

Defining
the Future
of Recording

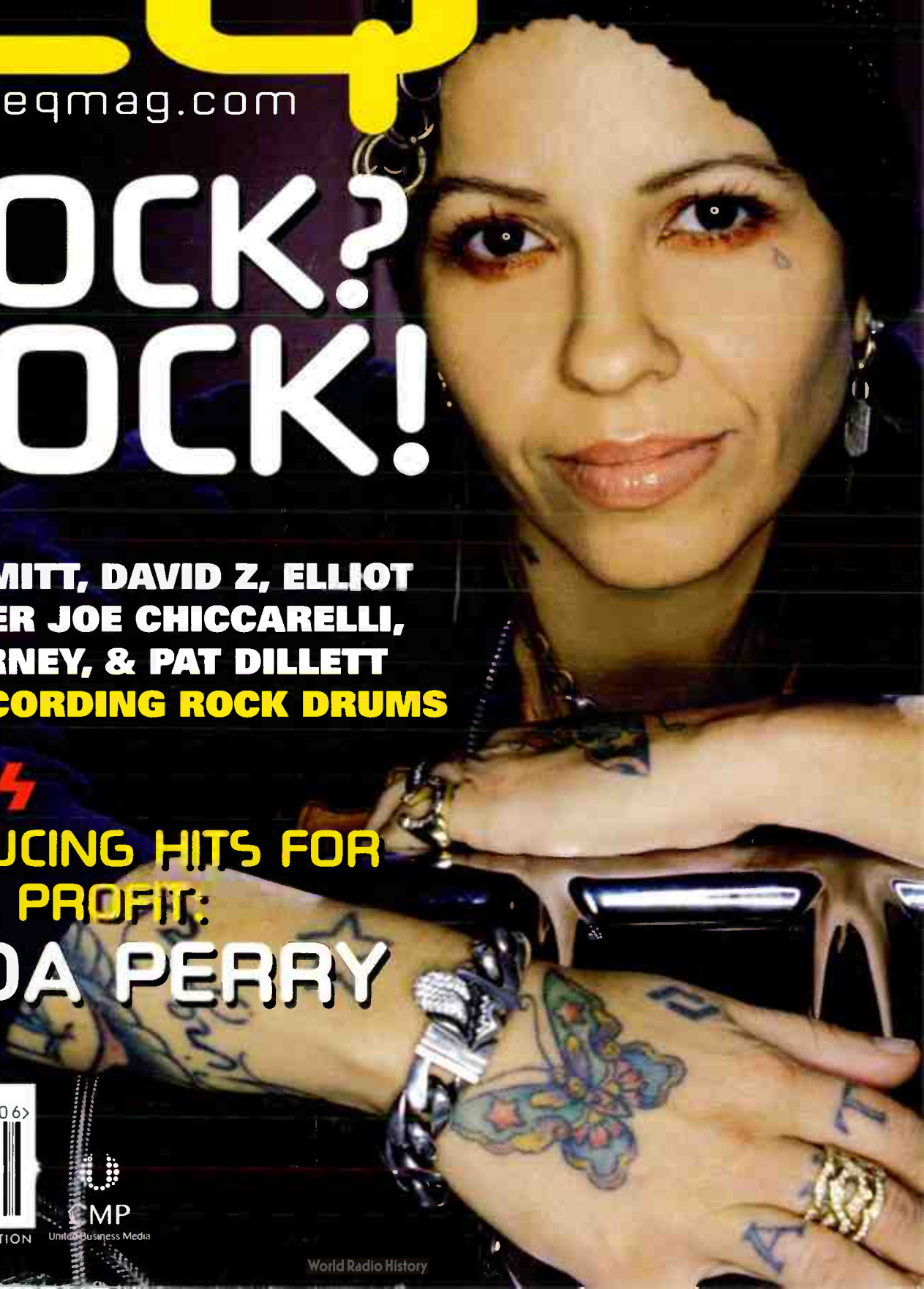
www.eqmag.com

ROCK? ROCK!



**AL SCHMITT, DAVID Z, ELLIOT
SCHEINER JOE CHICCARELLI,
ED CHERNEY, & PAT DILLETT
...on RECORDING ROCK DRUMS**

PLUS
**PRODUCING HITS FOR
FUN & PROFIT:
LINDA PERRY**



JUNE 2005

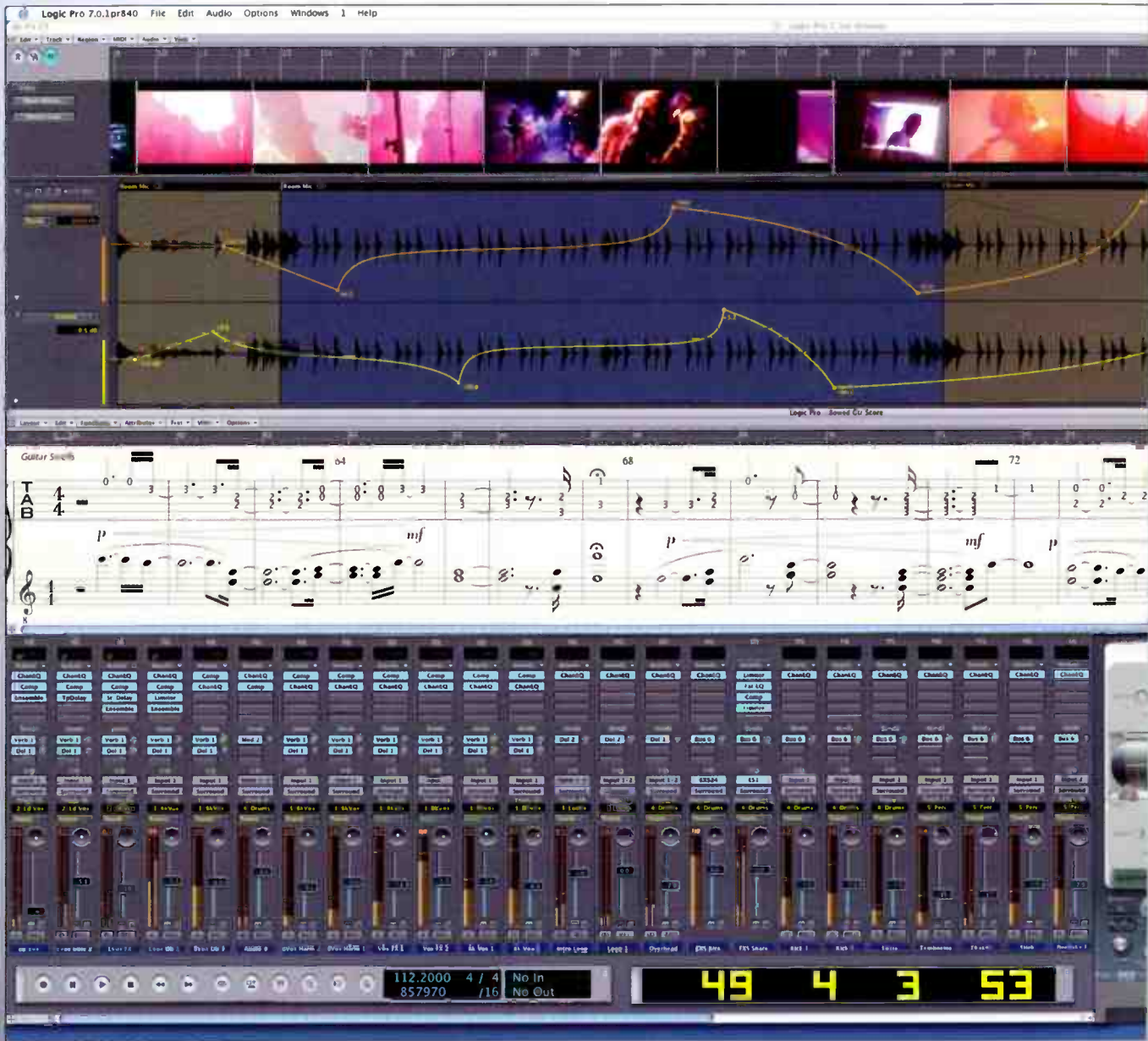
U.S. \$5.99 CAN. \$7.99



A MUSIC PLAYER PUBLICATION



World Radio History



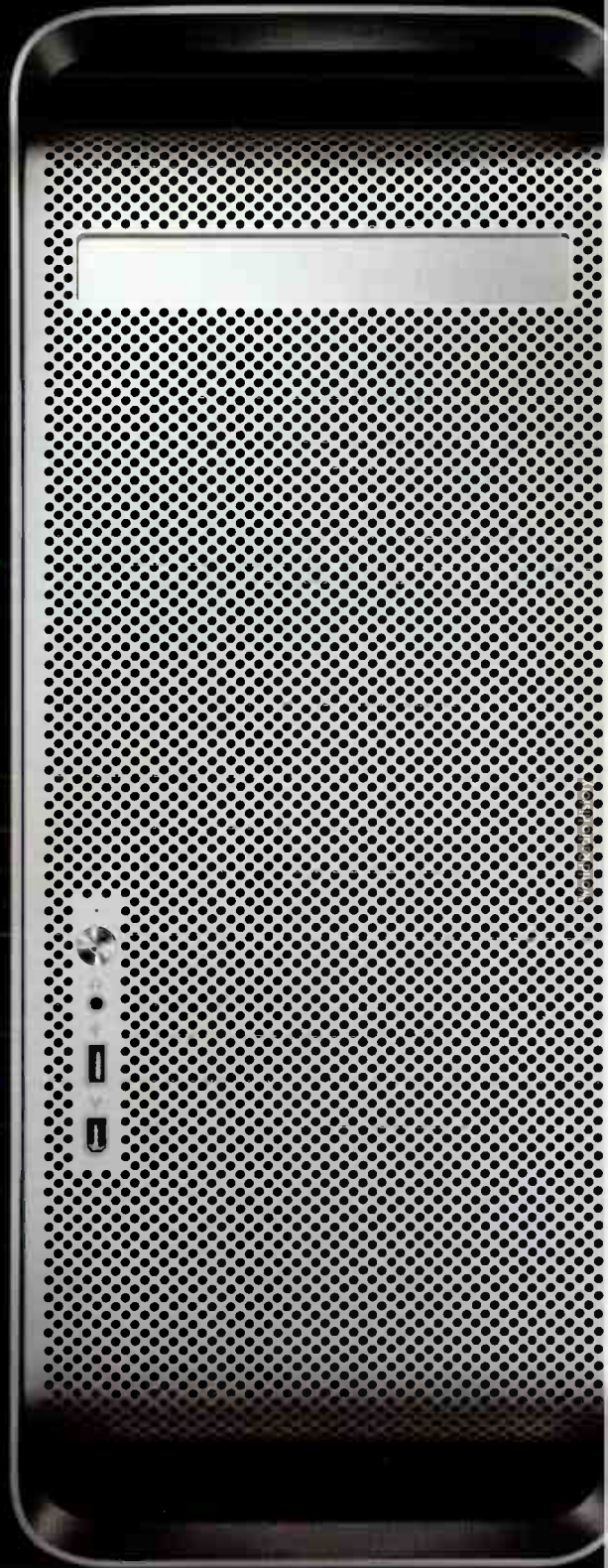
Logic Pro 7



Half studio. Half instrument. Total creative freedom.

More of a suite than an application, Logic Pro 7 sets a new standard in music creation and audio production. New Apple imaginable and Sculpture lets you synthesize anything naturally via component modeling. The 70 effect plug-ins, 34 software

Images are of the band Kid Galahad making the film *Hello You*. For more information, visit kidg.net. TM & ©2005 Apple Computer, Inc. All rights reserved. *SRP. For more information, visit



Loops let you produce instant sound beds, Ultrabeat delivers endless drum-machine permutations, Guitar Amp Pro models any tone instruments and expandable DSP processing power, thanks to Distributed Audio Processing, will make the \$999* price tag music to your ears.



06/05

FEATURES

26 **SIX ON SIX: DRUMS!**

AL SCHMITT, DAVID Z, ELLIOT SCHEINER, JOE CHICCARELLI, ED CHERNEY, and PAT DILLET? Oh yeah, baby. We went to the mountain and it was good.

32 **HOT DOG, IT'S FRANKFURT**

We are so very sorry for being so damn punny, but it goes with the good looks and our IN DEPTH coverage of the awesomely audiophonic Messe, behind the scenes and all.

38 **THE VERY MS. PERRY**

She produces, she records, she writes, she sings, she's a quintuple threat and has the musical mafia of Gwen Stefani, Pink, and Christina Aguilera to back her up. Really? Oh, please.

44 **OLD DOGS VS. NEWTRICKS**

In an *EQ* exclusive, LUKE O'BRIEN dives DEEP into the heart of a Paul Stubblebine-sponsored shootout featuring the trusty tube vs. the tried and true transistor.

48 **HOWARD BILBERMAN IS ALIVE AND WELL AND LIVING IN MONTREAL**

If his work with GODSPEEDYOU! BLACK EMPEROR, ARCADE FIRE, and A SILVER MT. ZION wasn't enough, Howard Bilberman...wait, on second thought it's quite enough.

CONTENTS

ART OF RECORDING

- 56 Dynamics Processing Vs. Rock Guitar

DEPARTMENTS

- 4 Talk Box/Bandstand
6 Punch-In
12 Tool Box
18 Session File: Nate Oberman
20 Success Story: John Rodd

- 96 Room With A VU: Massive Mastering, Schaumburg, IL

EQ REVIEWS

- 60 Native Instruments Guitar Rig
62 Propellerhead Reason 3.0
66 TASCAM GigaStudio 3
72 Discrete Drums Earthbeat
74 Nady RSM-2
74 URS FullTec
76 Ultrasone PROline 750

SOUNDS

- 78 East West: *Ra*
80 Big Fish Audio: *Raw Power*

COLUMNS

- 22 TECH BENCH: Cabling

POWER APP ALLEY

- 82 Cakewalk Sonar
84 Native Instruments Intakt

The Very Ms. Perry Photography: Aaron Rapoport/aaronrapoport.com
Make-Up/Hair: Greta Weatherby/gretaweatherby@earthlink.net

6

COMPLETE 48-track computer recording solutions!

Whether you're just starting out or an advanced user, we have a pro hardware/software package that turns your PC or Mac® into a 48-track recording studio. Each comes complete with Steinberg's superb Cubase LE digital audio workstation software*. Just add microphones and speakers to start capturing your art!

Record 2 tracks at once anywhere.

Cubase LE MAC & PC



US-122

portable USB 2-in/2-out 1-in/1-out MIDI
2 mic preamps with phantom power

Record 2 tracks at once anywhere.

Cubase LE MAC & PC



US-224

portable USB 2-in/2-out 1-in/1-out MIDI
2 mic preamps DAW control 5 faders

Record 4 tracks at once.

Cubase LE MAC & PC



US-428

desktop USB 4-in/2-out 2-in/2-out MIDI
2 mic preamps DAW control 9 faders

Record 10 tracks at once.

Cubase LE MAC & PC



FW-1082

studio FireWire® 10-in/4-out 2-in/2-out MIDI
DAW control 9 touch-sensitive motorized 60mm faders
4 premium mic preamps with phantom power

Record 18 tracks at once.

Cubase LE MAC & PC



FW-1884

studio FireWire® 18-in/18-out 4-in/4-out MIDI
DAW control 9 touch-sensitive motorized 100mm faders
8 premium mic preamps with phantom power

Record 18 tracks at once.

Cubase LE MAC & PC



FW-1804

rackmount FireWire® 18-in/12-out 2-in/4-out MIDI
4 premium mic preamps with phantom power

TASCAM®



*Hal! You were expecting a footnote with some sort of limitations. Fooled ya. All six TASCAM audio/MIDI interfaces work with both Mac & PC and come with the cross platform Cubase LE. They also come with GigaStudio 3 LE, the world's most powerful software sampler (PC only) and a Nomad Factory™ VST tube emulation plug-in demo pack for Mac® & PC. ©2005, TASCAM, a division of TEAC America. All rights reserved.

CONTRACTOR

www.tascam.com

DJ AND PRODUCER

PRO AUDIO

Talk Box



ROCK IS DEAD. LONG LIVE DEAD ROCK.

There's Action. Prog. Death. Noise. There was the all too weepy Emo. And Folk, Industrial, Punk, New Wave, and A-Billy. Alt, Math, Grunge. And without drawing another breath, Funk, Post-Punk, and Hard. The designators are all over the place but like all roads point to Rome, it always come back to the suffix that's formed the cornerstone of this here very issue you are NOW *emotionally involved with*: Rock. The word and the deed, and the deed is something we talk about like it's got flesh-and-blood dimensions because as clichéd as it is, how many of us would say with a completely straight face that Rock saved their lives?

Oh sure, OK, it's just me then.

Well then I offer a testimonial: Rock saved my life, a life that, prior to, had been filled with disco dance instructing, repeated visits to Studio 54, and fashion excess too terrible to retell. And then there was, in rapid succession, the Ramones, Eddie and the HotRods, and the Sex Pistols, cemented all by the Plasmatics live, all chainsaw and Wendy O. Williams (RIP), and finally there was the lock, stock, and barrel, and my purchase of the same.

It was/is great. I'm biased though. Biased because the dirty secret is, in a stunning refusal to age gracefully, or sanely, I *still* rock. Mic side for the band Oxbow. Rock *in extremis*. Which is code for, YES. Which is the answer to the question ARE YOU READY TO?

Rock, that is.

And we do and are. With the estimable LINDA PERRY, she of the producers *Who's Who* of pop-post-punk-rock rock success from Pink to Gwen Stefani and Courtney Love to her present salon at Kung Fu Gardens and her take on EVERYTHING. Back this up with AL SCHMITT, DAVID Z, ELLIOT SCHEINER, JOE CHICCARELLI, ED CHERNEY, and PAT DILLETT on rock drums, HOWARD BILERMAN on A SILVER MT. ZION and ARCADE FIRE, and even the *EQ* exclusive on Stubblebine's Signal Chain Shootout, and you might get the sense that we are ready to.

Rock, that is.

Cheers

PS: This one's for Hunter S. Thompson. R.I.P.



Editor in Chief: Eugene Robinson, erobinson@musicplayer.com
Managing Editor: Debbie Greenberg, dgreenberg@musicplayer.com
Editor at Large: Craig Anderton, canderton@musicplayer.com
Technical Editor: John Krogh, jkrogh@musicplayer.com
Group Copy Chief: Kevin Owens, kowens@musicplayer.com
Contributors: Howard Bilerman, Robert Breen, Dan Daley, Lynn Fuston, Mitch Gallagher, Garrett Haines, Steph Jorgl, Dean Kuipers, Luke O'brien, Salvatore Russo, Todd G. Tatnall

Art Director: Doug Gordon, dgordon@musicplayer.com
Staff Photographer: Paul Haggard, phaggard@musicplayer.com

Publisher: Valerie Pippin, vpippin@musicplayer.com
Director of Sales: Steve McGill
Tel: 650-513-4502, Fax: 650-513-4646; smcgill@musicplayer.com
East Coast/Europe Advertising Sales: Joe McDonough
Tel: 212-378-0492, Fax: 212-378-2158; jmcdonough@musicplayer.com
West Coast Advertising Sales: Pete Sembler
Tel: 650-513-4544, Fax: 650-513-4646; psembler@musicplayer.com
Advertising Sales Manager/Northwest Sales: Derick Joy
Tel: 650-513-4403, Fax: 650-513-4646; djoy@musicplayer.com
Manager of Specialty Sales: Joanne McGowan
Tel: 650-513-4376, Fax: 650-513-4646; jmogowan@musicplayer.com
Specialty Sales Asst.: Darlene Labrecque
Production Manager: Amy Santana
Imaging Technicians: Joe Ging, Martin Ruiz

MUSIC PLAYER NETWORK

Vice President: Louise Rogers
Editorial Director: Michael Molenda
Marketing Manager: Laney Erokan
Sales Administration Manager: Lauren Gerber
Sales Assistant: Molly Corman
Circulation Manager: Heather Harmon
Newsstand Sales & Marketing Manager: Pam Santoro
Assistant Circulation Managers: Rosario Perez, Maribel Aleman
Circulation Assistant: James Kaltreider
Web Editor: Max Sidman
Graphic Designer: Damien Castaneda
Reprint Coordinator: Cindy Zauss, Tel: 909-698-1780



CMP Information, Inc.
President: Tony Keefe
Controller: Doug Krainman

Please direct all advertising and editorial inquiries to:
EQ, 2800 Campus Drive, San Mateo, CA 94403
(650) 513-4400; Fax (650) 513-4661; eq@musicplayer.com

Please direct all subscription orders, inquiries, and address changes to: 888-268-8828, outside the U.S. 937-280-0011, eqmag@sfsdayton.com

Back Issues: Back Issues are available for \$10 each by calling (800) 444-4881; outside the US call (785) 841-1631

EQ (ISSN 1050-7868) is published monthly by CMP Information, Inc. EQ is a trademark of CMP Information, Inc. All material published in EQ is copyrighted (©) 2005 by CMP Information, Inc. All rights reserved. Reproduction of material appearing in EQ is prohibited without written permission. POSTMASTER: Send address changes to EQ, P.O. Box 369, Vandalia OH 45377-0369. Publisher assumes no responsibility for return of unsolicited manuscripts, photos, or artwork. All product information is subject to change; publisher assumes no responsibility for such changes. All listed model numbers and product names are manufacturers' registered trademarks.

Periodicals postage paid at San Mateo, CA and at additional mailing offices



cakewalk

SONAR4

“ SONAR 4 Producer Edition is simply stunning. Surround is logically integrated in a way that keeps the creative flow and mixing moving fast. And SurroundBridge is brilliant! ”



Rob King Producer and composer for TV, Video Games, Popular Music
Sony's Everquest series, Billboard-charting dance singlos, Dawson's Creek, CBS, NBC

cutting edge
environment



Version 4 transforms SONAR into a robust mixing environment, suitable for both surround and stereo, with exclusive features not found in any other applications. In addition, SONAR 4 delivers 32-bit floating point digital mixing and bussing technology with full delay compensation throughout the signal path. Combined with its enhanced video support, you'll find SONAR 4 offers a superior solution for scoring and post production.

Learn more about SONAR 4's cutting-edge mix environment at www.sonar4.com/mix

Punch In

TIPS & NEWS YOU CAN USE
BY EQ STAFF

LOVE LETTERS FROM FIGHT FANS

TO THE MASTER OF THE WORLD, NICK BLAKEY

In regards to "OVERRATED" [EQ Magazine, April 2005 Edition], I just wanted to ask Nick what it's like to know everything. What is it like to have every session turn out perfect?

Your arrogance outshines you.

John Scott

Nick Blakey responds:

Great. Absolutely great.

WAVE HELLO

I probably am not the first to point this out, in reference to your recent Wave Arts bundle review [EQ Magazine, April 2005 Edition].

But as someone who definitely fits the description of "recording engineers on a tight budget (who) have been searching for a Waves-style experience, but at an affordable price"; I feel compelled to point out that, with the exception of the desirable MultiDynamics plug, you can actually get real Waves versions of all the plugs in the Power Suite PLUS TWO MORE for the same price. Waves' Native Power Pack lists for \$500 and has SEVEN plug-ins, the Wave Arts Power Suite only has five.

I'm sure that the Power Suite can stand on it's own and may be more desirable than Waves in some instances (as you point out). However, the gist of your article seemed to be on it as a Waves alternative, which is something that I guarantee a lot of your readers are interested in.

Thanks,
Brad Worrell

Craig Anderton responds:

Actually, you ARE the first person to say anything, so thanks! It's always good to know SOMEONE reads this stuff.

In a lot of ways, the centerpiece of the Power Suite is the multiband dynamics processor. It's a

subjective call, I know, but I think a two-tap delay and de-esser is not as "bread and butter" as multiband dynamics, and I think it costs more than \$500 to get a Waves bundle that includes multiband dynamics.

Also, the parametric compander isn't really the same as the Power Suite channel strip, which is something that's pretty desirable for a lot of host applications, as it has separate dynamics processing and EQ in a very efficient plug. You can combine the Q10 and Parametric Compander, but then you're basically replacing one Power Suite plug with two Waves plugs (although I feel the Waves compander is more powerful than the Power Suite compressor due to the frequency selective aspect).

So . . . I agree that the Native Power Pack is a great deal, and as I made clear in the review, WAVES has set the standards to which others aspire. But overall, I think you get a bit more bang for the buck with the Power Suite because of the Multiband Dynamics. Still, of course it's all very subjective, because I like the L1 better than the Power Suite maximizer, but other people like the Power Suite one better . . . let's hear it for downloadable demos!!

JOHN KROGH: SUPERGENIUS

This [Apple Logic Pro 7, EQ Magazine, February 2005 Edition] is the most useful and intelligent review I've found for LP7 on the 'net. I now clearly understand what to expect when moving from LP6, and I hope the Logic development team is listening as well, because the concerns you raise will certainly affect me too.

Thank you for that,
Moyashi

Y NO RME?

I've been subscribing to both EQ and Keyboard mags for awhile now, and really enjoy your reviews. I was just wondering

why one doesn't see any reviews on RME's products (www.rme-audio.com). I've just invested in the RME Fireface800 unit and am really happy with it. And from what I read on many forums, RME is rated above MOTU, Presonus, and so on.

Any particular reasons for not reviewing RME?

J. Krynauw

Craig Anderton responds:

I think the RME stuff rocks, actually. I reviewed the Multiface in the May 2004 issue of EQ and gave it really high marks. I'll be reviewing the Fireface for EQ soon, I'm slated to get a review unit shortly. All my friends in Europe say it's not necessary to optimize a computer for music . . . they just buy the cheapest computer they can find, slap on an RME interface, and get great results.

AND ONE FOR THE KID...

My name is Rhett Butler. My little brother Ashley Butler, is the world's longest living case of a rare malignant brain tumor called a PNET, or Primitive Neuroectodermal Tumor. He was diagnosed at the age of two and is now 25 years old. He has defied statistics. Recently his cancer has returned. In the two months since his surgery, I have recorded a new CD, *The Kid from Kilkenny*. The proceeds from this CD are going to the Ashley Butler Foundation and will provide families of pediatric cancer patients at MD Anderson with financial aid. This is by far the best work I have done as it was recorded with all of my heart. Besides that, the acoustic guitar sound is incredible. I open regularly for Eric Johnson. I have sold more than 11,000 CDs on my own label and have made a name for myself through the states. Your support is greatly appreciated.

Thanks,
Rhett Butler
www.rhettbutler.org

Listen Hear



THE SILVER MT. ZION MEMORIAL ORCHESTRA & TRA-LA-LA BAND: HORSES IN THE SKY

(Engineered by Howard Bilerman)

It's the best loves that start out the worst.

"He doesn't want to do the piece. He says the music recording press are a bunch of dirty whores."

"Well, you tell him if we wanted anymore crap out of him we'd squeeze his head."

But he called Albini, found out we were jake, and the loving was on. The *he* in this instance? A one Mr. Howard Bilerman and this mighty record of his expands on the whole post-punk palette of lush largeness *à la* their associated GOD SPEED YOU! BLACK EMPEROR, cross-pond cousins MOGWAI et al. Almost a movement. An orchestral one, with production raw and dynamic enough to make you rethink, you know, *things*.

BLACK LABEL SOCIETY: THE BLESSED HELLRIDE

(Produced by Zakk Wylde, Engineered by Eddie Mapp)

Man we thought we were soooo over skulls, skeletons and all other manner of high school loose leaf binder obsessions. But like judging a book by its cover is bad for business so was the dismissive contempt with which we slathered Zakk's whole *mise en scene*. And then, we heard it. Look in the dictionary under Crush, Kill, or even Destroy and you're likely to find this thing doing all the things that make some recordings great, and dangerous (Think The Stooges' *Raw Power*): daring to completely disregard just about *everything* in the service of a sonic slapdown. Perfect.



TIGHT PHANTOMZ: CRAZY WHEN WET

(Produced by Tight Phantomz)

As cocky swaggers go, these guys got a mighty cocky one. We mean for an indie band. Who should know better. Witness: the big, deep kick drum, the sharp staccatos and arpeggios, all guitar licks and hip strut, and a boogie bass line that almost excuses the sincere cheese of a lone ballad. Expertly captured at the band's Phantom Manor Studios in Chicago, *Crazy When Wet* has all the in-your-face presence of a live recording. Sure, it's clean, mostly clear and crisp, but it's not spit-shined and polished to the point of blindingly perfect nothingness.



I PREDICT!!!

Predictions for the just this year would tend to be directly tied to specific products, rather than wide shifts in technology. Rather than predictions, I will throw out my hopes (rather self-serving, of course) that more musicians re-discover **HARDWARE INSTRUMENTS**. Though I was the person who developed the first pro soft synths almost 10 years ago, I'm probably the first to stop making software instruments to return to hardware.

All the reasons are pretty obvious, so I won't belabor them here, but it won't be long until everyone has the same pile of soft synths, since they'll come free with the OS. The joys of playing a real instrument with its own personality will be rediscovered.

—Dave, davesmithinstruments.com

IDIOT PILOT: STRANGE WE SHOULD MEET HERE

(Produced by Daniel Anderson and Michael Harris)

We strip them. We get a CD in we just strip it. Sure we slipped with the Black Label Society, but we usually strip them and put them in a pile and listen to them shorn of all the trappings of the machinery that sells music like they were selling margarine. No cool haircuts. No insouciant and reckless looks from PR photos. Nothing. So imagine our surprise again when it was discovered that the producers of this thing were also IN it and *were* owners of oool haircuts and insouciant and reckless looks, *and* one of the coolest sounding records we've heard in a long while. Recorded all with free software they downloaded off the net. Do tell. Oh, we will. Next ish.



ISIS: PANOPTICON

(Produced by Matt Bayles)

Total disclosure: friends of ours. We ain't going to dog it. However while they ARE friends they're not felons and so we played their CD with abandon this past month under no *undue* pressures. And it's delightful. Which is not the word expected when discussing a record with bass cameos from Tool's bassist and production by Mr. Mastodon, Matt Bayles. Seasick and lurching, and called everything from ambient metal to roil rock (ok, we just made that last one up), Isis and Bayles have a CD here that's neo-post-Spectoresque wall o' noise will (should) shame all of their bloated peers into adoring silence.



WHY, MR. PETE MOSHAY, WHY?!?!?

His résumé reads like a very, very, very patient man's who's who — Mariah Carey and Jennifer Lopez — and now, after the multi-platinum days and Grammy-nominated nights, mixer/engineer Pete Moshay, love that name, is back knuckling it on the new Hall & Oates DVD. Operating out of his A-Pawling Studios in upstate Pawling, NY, Moshay's running a dual 2.5 GHz Power Mac G5 with a Pro Tools HD3/Accel system — feeding 56 channels of separate I/O into a Sony DMX R-100 with 16 channels of lightpipe, 8 channels of AES/EBU and the rest analog.

Why the hell would anyone do that?

"Well, integrating digital console mixing with plug-in flexibility gives me the best of both worlds," Moshay says. "Because I like to be able to bring individual and/or stem mixes up on the board and effect them with a combo of the R-100 EQ and Dynamics, as well as some of the Sony Oxford EQ and Dynamics Plug-Ins. Also, I can take multiple versions of a single track and treat them differently, since there are no latency issues involved. For instance, when I worked on older consoles, I used to split the kick drum into two channels and treat them independently. With my DMX R-100, I can do it right in the board"

Moshay, is currently working on both 5.1 and stereo mixes for Hall & Oates upcoming DVD/CD package, a just recorded live-concert dealio.

OVERRATED?

The Mainstream

by Howard Bilerman

Despite the suggestion otherwise, I believe all this attention our city [Montreal] is getting will do nothing to make our community any healthier; and actually could serve to mess a lot of things/people up. I absolutely believe in organic growth and if a band takes it's time, rather than trying to get as much as quickly as possible, they will be much healthier for it.

The longer you take to develop before the greater public takes notice and starts being critical, the stronger your interpersonal relationships within the band will be, the better your playing will be, the better your music will be and the stronger your ties to the community you come from will be. All of this will come in handy once the stress of being in the public eye sets in, and this is important.

I find managers and publicists to be the opposite of organic. Kinda like trying to win the race by taking steroids. The true victory is managing to win without them...and it's possible...trust me. All that the aforementioned people will do is assist you in growing faster than you really should, and ultimately shorten the lifespan of your band (while taking 10-15% at the same time...what kind of cruel irony is that?). Bands get suckered all the time from people offering to "help" them. All that "help" really means is "cash-in on." There is nothing that a band can't do by themselves, or at least, there is nothing that a band shouldn't try to do by themselves at first, before trying to enlist other people to fast-track them.

The thought that, as some of articles have suggested, there are major-label scouts with their eye on Montreal seems to me akin to when pirates invade a city looking for virgins. I know of no indie band who made the move to a major-label with a happy ending to the story. There are far too many casualties, and the story is always the same. Sell lots of the first major-label record, much less of the second, and (if they haven't been dropped by then), even less of the third record...and then no one cares anymore.

The trouble is this damn idea that indies are somehow "farm teams." That there is something wrong with staying on an independent label if you are selling 50,000-100,000 records, 'cause you could be "playing in the big-leagues". I mean the truth is, a band will make more money selling 70,000 copies on an indie than several hundred thousand on a major, and they will manage to retain far more control over their band and their music, so why do people still entertain the notion of getting a major label deal? I guess it's about fame and vanity, 'cause it certainly isn't about a healthy and long career.

In 2005, I think independent culture is finally strong again, at least here in Montreal. The thought of all of that being flushed down the toilet worries me. But it can happen very easily. All it'll take is for all these successful independent bands to get starry-eyed, and once again the independent community will be abandoned. Bands like FUGAZI and SUPERCHUNK and GODSPEED are shining examples of people who have given back to their community, strengthening it in the process, and in addition, led rather long and healthy "careers." But bands get greedy.

But why would a band go out of their way to become so successful, that they jeopardize their own longevity? It has been proven again and again that if you become wildly popular, it doesn't last. The media needs fresh meat, and the turnover is quick. IT DOESN'T MATTER IF YOU ARE A GREAT BAND . . . IT DOESN'T MATTER IF "ALL THE HYPE IS TRUE" . . . the media treats bands as if they are disposable, and until this stops, mainstream attention is more like a kiss of death than something healthy and helpful. So . . . why do people participate . . . and essentially shoot themselves in the foot?

Howard Bilerman is a Montreal-based recordist/engineer at www.hotel2tango.com and is incidentally also featured on page 48.



Know any Tips, Tricks, Techniques, People, or Places that you think are OVERRATED? Go ahead. Let us know. Your secret is safe with us. eg@musicplayer.com

ALL OF THE WARMTH... NONE OF THE HASSLE

THE MXL V6 SILICON VALVE™ SOLID STATE MICROPHONE

Most agree the sound of a good tube microphone is wonderful. We have all heard the warmth and silky-ness that they can produce. But most will also agree that it's a lot of work to set them up, and valuable time is wasted waiting for them to heat. This, and the inevitable tube replacement reality. We also make some of the best tube mics available, like the V69 Mogami Edition, and we have a solution to these age old dilemmas.

The new **MXL V6 SILICON VALVE™** solid-state microphone.

The unique design of the V6 employ's solid-state FET amplifier techniques and carefully selected components to simulate what tubes do naturally. The V6 has a sweet silky sound that until now was achievable only by vacuum tubes. We know it's hard to believe, so don't take our word for it, listen to what the experts have to say...



"We had already fallen in love with the company's products, and now the MXL tradition continues with the new V6 microphone. The mic has a classic look and solid construction coupled with an incredible sensitivity to capture the subtleties of human performance. The V6 has the full, rich sound we need to produce hit records".

Joey P and Dale "Rampro" Ramsey,
Producers of Grammy award winning artists including Ludacris,
Justin Timberlake, Jay-Z, Sean "P. Diddy" Combs, TLC, and Stevie Wonder

"Here is a mic with all the sonic elegance and qualities of vintage tube mics in a phantom powered condenser. They rocked the house as room mics, every bit as good as my matched pair of U 67's and also sounded warm and transparent on vocals. I am a fan!!!"

Joel Jaffe,
award winning Chief Engineer of Studio D Recording, Sausalito California

"The V6 easily lives up to the claims made by Marshall Electronics. It's a big sounding mic, with plenty of open top end, good dynamic response, low noise, and a warm tone. It lines up next to the V69 very well, delivering similar tone, and excellent value. I don't know how they do it, but Marshall continues its history of delivering value-packed microphones".

Mitch Gallagher, EQ magazine

Experience the amazing tube-like sound for yourself at an MXL Retailer near you

DESIGNED AND MANUFACTURED IN LOS ANGELES, CA



Tel.: (310) 333-0606
Toll Free: (800) 800-6608
www.MXLMics.com

LOOK WHAT I FOUND

Phil Breithaupt is a saint. Yeah, yeah, sure there's the work with Teen Challenge International (www.teenchallenge.com), and his time in the trenches as a studio co-owner, engineer, and producer, but we sing his praises here because we're inveterate gearheads and today is a Breithaupt sponsored sharing day, so looky look what he got *his* mitts on: a circa 1950s Vintage Electro-Voice V-1 Velocity Ribbon Microphone.

Well if the proof of the pudding is in the tasting, what'd it taste like?

"I set up right away and recorded vocals through an Altec 1567-A preamp," says Breithaupt. "The sound? Extremely warm and realistic without the sibilance problems usually associated with other mics that have a rise in the high frequency."

And what'd it cost?

"Nothing. Someone donated it to our charity."

Free, not cheap. Perfect.

VELOCITY SERIES — The V-1 ribbon microphone is a true classic. It has a warm, rich, natural sound that has made it a favorite of studio engineers for decades. It's also a great live sound microphone. It's built to last and is available in several finishes, including gold, silver, and black. The V-1 is a true classic that's still going strong today.

Model V-1 — The V-1 ribbon microphone is a true classic. It has a warm, rich, natural sound that has made it a favorite of studio engineers for decades. It's also a great live sound microphone. It's built to last and is available in several finishes, including gold, silver, and black. The V-1 is a true classic that's still going strong today.



MODEL V-1

FORUM FEED

The CD format is showing its age, and the record industry was hoping you'd adopt DVD-A or SACD. But so far, neither has been a success. Surveying sage sonicists at our Sound, Studio, and Stage forum (www.eqmag.com) we asked POINT BLANK:

Are DVD-A and SACD, DOA?

(1) DVD-A will ultimately prevail and likely replace the CD: 8%

(2) DVD-A will have a niche market, but probably won't replace the CD: 6%

(3) SACD will ultimately prevail and likely replace the CD: 0%

(4) SACD will have a niche market, but probably won't replace the CD: 0%

(5) Both DVD-A and SACD will have niche markets, but probably won't replace the CD: 24%

(6) Neither DVD-A nor SACD will succeed, primarily because the industry couldn't decide on a format: 8%

(7) Neither DVD-A nor SACD will succeed, primarily because the public doesn't really feel the need for a new format: 54%

BUT, BUT, BUT...

"I have DVD-A and love it. I have not bought CDs in years, yet I buy DVD-As all the time. Marketing weakness of the DVD-A producers has hindered the medium's growth. If they were to educate the public the same way HD TV producers have, there would be increased interest." —KB Gunn

"I don't think most customers are looking for something 'better' than CDs. MP3s sound worse than CDs, but that's probably the most significant new 'format.'" —Phil O'Keefe

"Dual Disc (CD on one side, DVD on the other) is taking off. Sales are very promising." —Bill Roberts

"The premise of exchanging money for little piece of plastic with data encrusted for any purpose will be as relevant 20 years from now as gas lamps are today." —Jeff Klopmeier

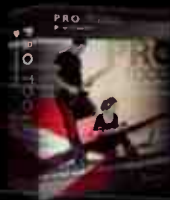
"Keep releasing CDs for those who can't keep up, but we as an industry must move on and get into 5:1 and 24/96. There's a new audio world out there." —John Sayers

"The public has spoken. I don't see SACD or DVD-A discs or players advertised, but iPods and MP3 players are flying off the shelves. History has proven that the average consumer will choose convenience over quality." —The Soundman

"People care about listening to music, [and] even the lowly cassette is adequate to this purpose. A limited frequency response does not diminish the enjoyment of an interesting set of changes, a well-improvised solo, or an emotional vocal delivery." —DennyF

"What people have shown is a desire for having their music available when they want it, whether streamed from a network or played from a portable device. Here, the medium is *not* the message." —Doug Osborne

Pro Tools. M-Audio. Compatible.



PRO TOOLS M-POWERED

Pro Tools M-Powered™ software marks the beginning of a new era of compatibility between M-Audio® and Pro Tools®. The groundbreaking combination of select M-Audio hardware and Pro Tools M-Powered software gives you more choices about where, when and how you create. Customize an affordable desktop rig or build the compact mobile studio of your dreams—while remaining compatible with countless Pro Tools-equipped studios around the world. Together, M-Audio hardware and Pro Tools M-Powered software close the gap between home, studio, stage and the road. Get M-Powered... Pro Tools M-Powered.

Choice of 5 **M-Audio** interfaces
now compatible with **Pro Tools M-Powered**

FireWire 410
FireWire 1814
Audiophile 192
Audiophile 2496
Ozonic

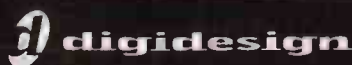


- designed for compatibility with select M-Audio hardware
- 32 simultaneous tracks of high-fidelity audio up to 96k
- fully integrated 256-track MIDI sequencing
- includes over 30 Bomb Factory and DigiRack plug-ins
- huge selection of optional plug-ins and applications available
- ReWire for further mixing and processing of apps like Ableton Live
- unique Beat Detective LE automatic groove analysis/correction tool
- cross-platform operation on Windows XP and Mac OS X systems

Download a free trial
www.m-audio.com/protools



ReWire to Ableton Live 4
for real-time composition
(Live Lite 4 included)



M-AUDIO

recording interfaces | USB keyboards | studio monitors | microphones | preamps | sound libraries | music software | www.m-audio.com

World Radio History

Tool Box

BY KEVIN OWENS



01



02



04



03



01 SECRETS OF THE PROS PRO TOOLS DVD: VOLUME 1 (\$39.95)

In addition to covering the basics of how software and hardware work together, this 2-DVD instructional set shows the uninitiated how to use Pro Tools LE and TDM systems to record, edit, and mix audio. Includes a chapter dedicated to Beat Detective.

Secrets of the Pros,
www.secretsofthepros.com

02 ACON STUDIO CLEAN (\$69)

Consisting of StudioDenoiser, StudioDeclipper, StudioDeclipper, and StudioRebirth, Studio Clean is a Direct-X plug-in bundle for PC that lets you reduce noise, eliminate clicks, and add harmonics to your audio. Audio you create in your um, studio, we're guessing.

Acon,
www.acondigital.com

03 MUXLAB MONOPRO XLR (\$35 each)

The MonoPro XLR adapts a single AES/EBU balanced analog or digital audio signal to Category 5 copper twisted-pair cable in a point-to-point configuration. The MonoPro supports line audio, passive and phantom-powered mics, and distances of up to 5,000 feet in analog environments and 1,500 feet in digital settings.

MuxLab,
www.muxlab.com

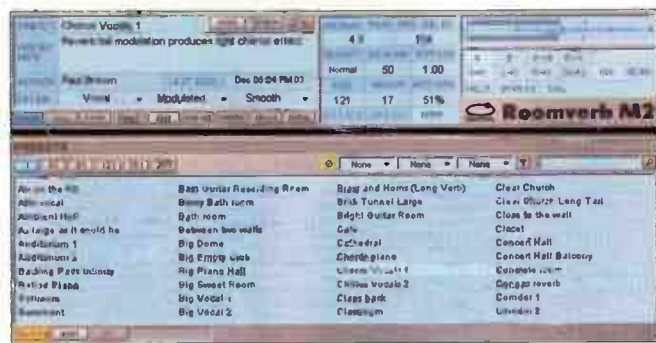
04 TASCAM DV-RA 1000 (\$1,499)

A high-resolution master recorder that supports digital recording formats ranging from CD audio resolution to 192kHz/24-bit to Sony's DSD (the basis for Super Audio CDs). Features include balanced XLR and AES/EBU I/O, word sync I/O/thru, USB 2.0 support, and Mac and PC compatibility.

TASCAM,
www.tascam.com



05



06



07



08

05 STEINBERG HALION 3.1 (Free download for registered users)

New features to version 3.1 of Steinberg's virtual sampler include advanced disk streaming, ReWire compatibility as a standalone app, MIDI Learn mode, and Q-Controls, user-definable controls that offer access to up to eight parameters on the Macro-page. Thank you, HAL.

Steinberg,
www.steinberg.net

06 SPINAUDIO ROOM VERB M2V 2.2 (\$145; free upgrade)

This updated plug-in (Mac and PC) boasts an improved engine that claims to deliver more realistic reverb and better stereo image spatialization. Features include Plate and Outdoor simulation modes, control of early and late reflections, and 250 factory presets. Free demo available at the company's website.

SpInAudio,
www.spinaudio.com

07 AUDIX FIREBALL (\$299)

CNC machined out of aircraft-grade aluminum, this palm-sized cardioid pattern mic was designed to capture the best qualities of both chromatic and diatonic harmonicas, even when cupped. It features a full-sized dynamic capsule, and can handle SPLs up to 140db without distorting.

Audix,
www.audixusa.com

08 NATIVE INSTRUMENTS ELECTRONIC INSTRUMENTS 2 XT (\$169)

Eight advanced drumkits, synths, sequencers, and effects that take advantage of Reaktor's engine technology but can run independently, too. Includes presets created by such artists as B.T., Photek, Machinehead, Telefon Tel Aviv, and the super-dope Junkie XL. (Mac & PC).

Native Instruments,
www.nativeinstruments.com

Tool Box



09 CYCLING '74 MODE FOR WINDOWS (\$99)

Cycling '74's popular plug-in package is now available for Windows XP host apps that support VST and RTAS formats. Mode features three instruments (Bang, Mono, and Poly) and two effects processors (Spin and Wash), as well as an additional 18 plug-in "submodules."

Cycling '74,
www.cycling74.com

10 M-AUDIO KEY RIG AND DRUM & BASS RIG (\$129.95 ea)

M-Audio ventured into the virtual instruments market with a pair of new titles. Both feature four highly tweakable modules covering a variety of keyboard and drum and bass styles (ahem), and operate in standalone and hosted mode (AU, VST, RTAS) on Mac and PC platforms.

M-Audio,
www.m-audio.com

11 EDIROL MA-7A (\$135 pair)

These affordable desktop reference monitors feature both RCA and mini-stereo inputs, a "sub out" jack for sending audio to an external subwoofer, and a built-in Bass Enhancer. Front-panel controls include volume, treble, and bass knobs, plus a mini headphone out.

Edirrol,
www.edirrol.com

12 EVENTIDE VERSION 4.5 SOFTWARE

(Free download to registered users; \$199 on Compact Flash card)

Version 4.5 adds Eventide's "Custom Scale" pitch shifting, MIDI Virtual Racks, loads of new effects, and a stable of 5.1 algorithms to the 1,600-plus presets already included with the company's flagship H8000 (pictured) and H8000A Ultra-Harmonizer effects processors.

Eventide,
www.eventide.com

Put **your** outboard EQ inside your DAW

Presenting Q-Clone

Software that turns your hardware equalizer into a plug-in — in real time

You know there's no substitute for the sound of a classic hardware equalizer. You also know hardware can't match the flexibility of a plug-in. But what if you could have both?

Not an emulation—It's your EQ only better

Let's be clear: Q-Clone isn't an emulation. You tweak the knobs on your equalizer just like always. Q-Clone captures the exact sound of your equalizer as you adjust it.

Presets recall your hardware sound

Save your sounds as presets, and you can instantly A/B between them. Or get your signature hardware sound—without the hardware.

Add EQ on top of EQ

Once you've equalized a track, you can equalize that equalization—like chaining two of your EQs together! Or make your four-band EQ into an eight-band! There is no end to the possibilities. Finally, a way to get hardware "inside the box."

Put your outboard EQ on multiple tracks at different settings—simultaneously

Tweak one track, click Q-Clone's "Hold" button, and the sound stays just as you set it. Move on to equalize another track and another—as many as your computer can handle.



(North & South America) 306 W. Depot Ave.
Suite 100, Knoxville, Tennessee 37917
Phone: 865-909-9200
Fax: 865-909-9245

7-Day Demo available at your Waves center and at www.Waves.com

ENHANCED MIDI PROGRAMMING

Tracktion 2 features a fully revamped MIDI editor with faster note entry, quicker editing, more intuitive keyboard control, and improved viewing of notes and controllers simultaneously.

EASIER RECORDING

Tracktion 2 lets you record your ideas as fast as they come. Just drag the audio or MIDI input icon to whatever track you like and hit record.

DRAG-A-FILTER

Wanna add a VST plug-in, pull up a VSTi instrument, route to an Aux send or add some EQ? Just drag a filter to the track you want to effect. It's really that simple.



OVER \$500 OF BUNDLED PLUG-INS

T2 gives you all your basic music-making and mixing tools right out of the box — including Amplitube LE, Samplank SE, the legendary LinPlug RMIV drum sampler and a full suite of Mackie Mixing and Mastering plug-ins.

INSTANT INFO

Tracktion follows your every move with its Properties Panel. Click on an audio clip and see its fade-out curve; click on a MIDI clip and quantise away; click on a reverb plug-in filter and fine-tune the pre-delay. The relevant info is always at your fingertips.

IMPROVED METERING

When setting levels, T2 can turn the full screen into a giant meter bridge with the press of a button.

QUICKTIME SUPPORT

Tracktion 2 supports QuickTime™ video playback. Select a movie and start composing music, add effects, replace your dialog, and win your Oscar®.



EXTERNAL SYNC

In addition to Tracktion's ReWire host functionality for use with applications like Reason, T2 supports MIDI Time Code (MTC) and MIDI Machine Control (MMC) input/output, plus MIDI Clock output.



© use 64-bit math when mixing tracks

SUPERIOR 64-BIT, 192KHZ MIX ENGINE

Much has been made about the "summing bus" in DAW software. Tracktion 2 features a new high-definition 64-bit mixing engine for uncompromising sound.

☎ 800.898.3211 (Toll free within U.S.) ☎ 425.487.4333 (Outside U.S.) ✉ info@mackie.com

© 2005 LOUD TECHNOLOGIES INC. ALL RIGHTS RESERVED. "MIXER" AND THE "RUNNING MAN" FIGURE ARE REGISTERED TRADEMARKS OF LOUD TECHNOLOGIES INC. ALL OTHER TRADEMARKS ARE PROPERTY OF THEIR RESPECTIVE OWNERS. ALL SPECIFICATIONS SUBJECT TO CHANGE. THE TRUTH IS OUT THERE... LIKE, UH, WAY OUT THERE.

IF YOUR MUSIC SUCKS, IT WILL STILL SUCK. YOU'LL JUST MAKE IT A WHOLE LOT FASTER.



If you enjoy clicking through layers of windows to create music, then Tracktion software is definitely not for you. It won't pretend to be a mixing console... It doesn't have cute 3D racks or patch cables... It doesn't contain a single instrument icon.

Instead, Tracktion lets you get right to the business of making music using a single screen for everything from audio recording and MIDI production to mixing and mastering. It's simple-yet-powerful software, with thousands of fervent users and dozens of glowing reviews.

And now with Tracktion 2, we've added more than 100 new features and a full suite of high-quality plug-ins — while maintaining the original's legendary simplicity and a reasonable price.

Visit the left hand page, then visit mackie.com for your free Tracktion 2 demo. It won't make better music for you, but it will sure let you make it faster and easier.

SIMPLE. POWERFUL. REVOLUTIONARY. TRACKTION 2.

For a limited time, get a FREE artist website and 6 months of hosting from www.broadjam.com when you buy and register Tracktion 2.

MACKIE®
www.mackie.com

NATE OBERMAN

DATE: February 2004 – August 2004

STUDIOS: Tha Church and Tabernacle Studios

LOCATION: Los Angeles, CA

ARTIST: Snoop Dogg

PROJECT: Recording Vocals

ALBUM: R&G (Rhythm & Gangsta): The Masterpiece

PRODUCERS: The Neptunes, Jonathon "Lil' Jon" Smith, L.T.

Hutton, Soopafly, The

Alchemist, Sha Money XL,

Ron Browz, Black Jeruz and

Warryn Smiley Campbell

ENGINEERS: Nate Oberman,

Shon Don, Nomad, Steve

Baughman, Bruce Buechner

and Mike Chav

It reads like a what's what of good home training: starting at The Record Plant in LA, moving over to Silent Sounds, cutting his teeth with engineer Gary Wright, and then touring and recording for and with George Clinton. All before the history-changing meeting with a producer named Nomad who was working on a project for Marvin Gaye III. Who?

Nate, natch, who after his two years with Clinton decided to look up his buddy Nomad, who then got Oberman a gig working as a full-time engineer for Snoop Dogg. That was in 2003, and just in time for Oberman to get to record, engineer, and mix tracks for Snoop Dogg's *R&G (Rhythm & Gangsta): The Masterpiece*.

SIGNAL PATH

Coming from a background using 45 mics to record George Clinton, Oberman found recording vox for Snoop Dogg to be a much more simple process: just one of three different mics, going through an Avalon pre-amp straight into Pro Tools HD.

"We used a Sony 800G hairdryer

mic—which is a pretty popular mic, an AKG C12 and a Røde K2 Tube Mic," explains Oberman. "Snoop likes the Sony 800G a lot, so we used that on most of the tracks. But we used the C12 and the K2 on the rest of them."

The three mics used are all kind of similar in characteristics. "They are all very bright, in-your-face mics, and Snoop's got a very mellow smooth sound," he says. "Because those mics are very clear, you can get right up on them. So they make Snoop's vocal tracks sound very full and rich."

The vocals were brought into Pro Tools through an Avalon 747 SP mic preamp. "He's got that same Avalon preamp at every studio he owns, so naturally that's the main preamp that we used for this record," says Oberman. "We brought that signal into Pro Tools through a Pro Tools 192 I/O. We use the Pro Tools HD 192 A-to-D converters at all of Snoop's studios."

The vox for *R&G* were recorded in dry, dead, non-reflective rooms and no special surfaces were brought in to add elements to the vocal tone. "I like Snoop's voice really dry and in-your-face and how that cuts through. Especially with hiphop and with the beat being so loud. He's really gotta be *right there* in the mix."

MIC POSITION

Typically Snoop does one lead track, plus three other ad lib tracks. "He never doubles, which I like because it's not so stacked sounding," says Oberman. "But he'll do three other tracks and we'll stereo pan them left, right, and center, and turn them down so they're underneath the lead.

For the recordings, Oberman positioned the mics very close to where Snoop would be singing. "And I put the popper stopper really close to the mic so that he could get even closer to it. Since Snoop doesn't really yell or get too dynamic with his vocals, we can let him get right up on the mic."

PROCESSING

When it came to processing Snoop's vox, Oberman relied primarily on Waves plug-ins, deployed inside of Pro Tools. "I've found that the Waves Renaissance compressor and EQs create a really cool combo that Snoop loves for his vocal tracks," he says. "For reverb we use the LexiVerb. But we don't use that many effects for his vocals — just a little reverb, and delay on certain words."

And it doesn't take long to record the Dogg either.

"Snoop's a total pro when it comes to vocal tracks," says

Oberman. "He writes his lyrics in 30 minutes. He comes into record the vocals and wraps in 10 minutes and then we're done. One of the amazing things about working with Snoop is that he's so good. He might punch in *once* or even that — and it's very rare when he does punch in."

TRACK NOTES

"Snoop is constantly recording songs," says Oberman. "Then every couple years, he'll go through, pick the best stuff, and put out an album." The first song worked on for the current release was "Can I Get a Flicc Witchu/Every Dogg Has His Day (Interlude)" with Bootsy Collins. But the main bulk of *R&G* was recorded in the last six months before the record was released. EQ



Forget it, Nate. It's Koreatown. Oberman making the most of downtime.

Your Vision. Our Sound.

Sony Pictures Sound Effects Series

file:
Elephant Growl Low
volume 1:
Animals /
Natural Elements /
time:
00:08.2



file:
**Ocean Waves
And Birds**
volume:
Backgrounds
time:
00:08.0



file:
**Flamethrower
Burst 03**
volume 3:
Home & Office /
Impacts /
Weapons & Explosions
time:
00:01.1



file:
Roller Coaster Bys 01
volume 4:
Vintage Cartoon /
Sports & Recreation /
Vocals & Wallas /
time:
00:21.1



file:
**Military Helicopter
Idle Away**
volume 5:
Vehicles
time:
00:21.7



5 CDs. 1,200 Effects.

For the first time, Sony Pictures Entertainment has opened its audio archives to producers everywhere. This exclusive collection of essential sound effects represents the best in sound design and field-recorded materials. Created by the industry's most respected audio professionals, these effects come from one of the world's leading motion picture studios. A compelling soundtrack is integral to the cinematic experience; put these effects to work in your productions to achieve an even higher level of emotion, suspense, or impact. Your vision, our sound: a combination designed for greatness.

LIKE NO OTHER™

© 2005, Sony Pictures Digital Inc. All rights reserved. Sony Pictures Sound Effects is a trademark of Sony Pictures Digital Inc. All other trademarks are the property of their respective owners. www.sony.com/mediasoftware | 800.577.6442

JOHN RODD'S ORCHESTRAL MANEUVERS

COMPANY: John Rodd — Scoring Mixer

CONTACT: www.johnrodd.com

LOCATION: Los Angeles

KEY CREW: John Rodd

"A great-sounding score is really about a great-sounding room, with great music, really well orches-

trated, with great musicians playing great instruments," says scoring mixer and recordist John Rodd. "And what I'll do is get some great microphones, put them in the right places, and then not screw it up."

With credits as scoring recordist for the *Matrix* trilogy, *I, Robot*, *X-Men*, and *Unfaithful*, and studio orchestral recording and engineering credits on tracks for Madonna and Michael Jackson, Rodd is well-honed as an expert when it comes to orchestral recording.



FROM TORONTO TO LOS ANGELES NON-STOP

After a degree in media-arts, John Rodd started recording at Manta Sound in Toronto, where he got to record large orchestras. "I enjoyed that," he explains. "But that type of tracking would happen about once a month and the rest of the time we'd be doing television jingles and records."

He moved on from Manta to do freelance engineering in England, a stint working at a place called The BANFF Center for the Arts in Canada, and then 10 months recording orchestral sessions at Ocean Way Studios in Los Angeles. Finally, Rodd got hired to be the Staff Recordist for the Newman scoring stage at Twentieth Century Fox.

But after a sizeable stint — seven years — at Fox, Rodd has broken out and launched his own independent orchestral recording and mixing biz: John Rodd — Scoring Mixer. Preferring the variety of working at different studios — or at his well-equipped home studio in L.A. — Rodd gets the best of all worlds now as film composers hire him to go various places to record and mix their music.

"The job at Fox was fantastic," says Rodd. "But more and more often, composer clients of mine would call asking me to do a string date, or to record and mix a feature film score for them. I enjoy the challenge of the wide variety of projects that I get to record and mix now as an independent — be it a string quartet or a huge orchestra."

WILL RECORD, MIX, OR BOTH, FOR FOOD

Rodd tends to wear different hats for different projects. "On *The Curse of El Charro*, I was there recording everything," he says. "On another feature film project I'm working on called *Chasing Ghosts* that was composed by Scott Glasgow, an orchestra was recorded in Eastern Europe and I'm just being brought in to mix it."

So why do people turn to Rodd for recording? "When a composer contacts

me, right from the beginning, I'm always very keen to sort out all of the critical, yet sometimes overlooked, technical details in terms of sampling and frame rates, clicks and pre-records," he says. "I put in a lot of preparation ahead of time so my sessions tend to go really smoothly. With an orchestra in front of you, there's no time or room for surprises."

HIS MIC FAVS

When recording orchestras, Rodd leans toward the standard high-end Neumanns and Sennheisers. "Although sometimes I'll use Royer ribbon mics on brass sections and so forth," he says. "Generally, I'll try to use what's available at the studio we're working at. And I'll bring in whatever additional high-end mics that are needed. That's always the fun part: balancing out what's available to what sounds right."

"I like how the Sennheiser MKH series microphones work either as room or sectional mics on strings," he adds. "Although the Neumann TLM170s also have a very faithful reproduction as spot mics."

PROTOOLS AND PERFORMER

He is also versed in two of the major DAWs used for film scoring. "I work on a range of projects of different sizes. So if it's a smaller budget project, a client can give me a hard drive with a series of cues on it and say, 'Here, mix this — I'm working on the next set of cues.' And I can pull their files up in Digital Performer and just do it," says Rodd.

But when it comes to recording, he tends to use Pro Tools. "It seems to be emerging as the new standard for film," says Rodd.

THE BEST REVENGE

You got a story to tell about your rocket ride to riches and/or successful significance? Well, we want to hear about it. Email us at eq@musicplayer.com.

Satisfaction in Every Box

"FAST delivery!! I have never had a backorder... You guys always have what I need in stock. Great sales support. Keep doing what you're doing. I won't buy from anyone else."

— Everett Davis

"...you guys have the **best service in the business.**"

— Stan Sykes

"It's always great to talk to **people who really know the gear!**"

— Larry Blackaby

"Website is awesome, **prices are great,** and service is excellent!"

— Jason Calderwood

Sweetwater
music technology direct



HUGE SELECTION



EXPERT SALES STAFF

Sweetwater
music technology direct



FACTORY-AUTHORIZED
REPAIR CENTER



AWARD-WINNING
TECH SUPPORT

Only Sweetwater offers the best of everything: professional, knowledgeable advice, great selection, great prices, and outstanding tech support and service.

(800) 222-4700 | sweetwater.com

NO MINIMUM PURCHASE
FREE SHIPPING
SPEEDY INDEX DELIVERY
MOST ORDERS SHIP SAME DAY

PRO AUDIO • MICROPHONES • PROCESSORS • MONITORS • GUITARS • KEYBOARDS • MIXERS

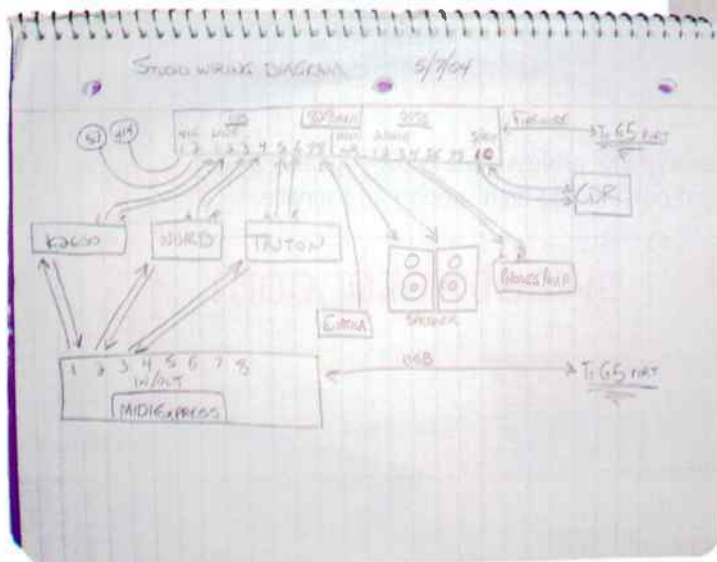
CABLING

One of the most vulnerable hardware categories is cabling — not only because cables are often the most vulnerable to damage, but also because there are often *so many* cables that it's hard to keep track of them all.

Problems often arise when users have difficulty recalling what each cable is intended for, and where it should be connected. It's not unusual to encounter a user who has recently moved their studio, or perhaps allowed a "guest" engineer to do some work at their studio. Disaster strikes when they find themselves unable to perform a task as simple as recording or playing back; something they may have done hundreds of times before without thinking twice about connections. The problem can often end up being something as simple as a cable that's been moved or disconnected.

Keeping track of your studio and how it's configured may seem like a daunting task, but there are a few tools you can use to make life easier in the long run. First, document all your connections (yes, *all* of them). There are numerous ways to document your studio's setup and connections, but a good ol' spiral-bound notebook is my favorite. I can quickly make lists, draw diagrams, and keep track of other details about my studio, as well as individual sessions. My notebook doesn't crash, need power, or require updates — it's old-fashioned, but it's simple and easy to customize.

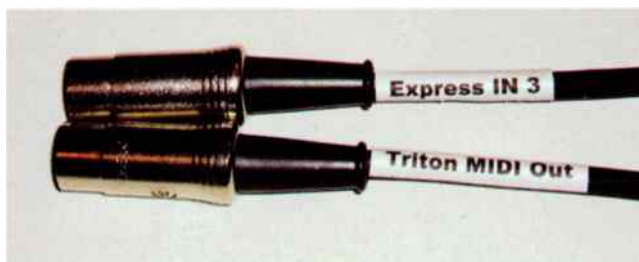
When setting up a studio or workstation, it helps to create a "road map" of how all the devices will be connected before you make the connections. A simple sketch of all your audio and MIDI devices with some indication of what goes where can help you sort out all the cables and connections.



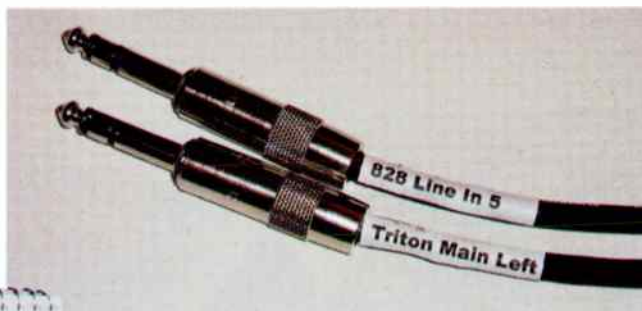
A trusty spiral-bound notebook keeps track of studio connections.

Some users may prefer to document connections *after* they've been made. Again, a simple drawing can help keep track of those connections. You can always go back to your drawing and compare it to your hardware. If you change your setup, revise and date the sketch, or simply make a new one.

A second simple way to keep track of all your connections is to label those cables. Whether before or after making connections, you can apply a label to the ends of each connector. Self-adhesive label makers are perfect for this, but a little tape and a pen will do just as well. Remember that despite the limited space, it's best to be specific. Where "In 1" may be sufficient, "Mixer line input 1"



An example of labeling MIDI cables.



An example of labeling audio cables.

doesn't take much more time or effort — and you (as well as any colleagues) will know exactly what it means.

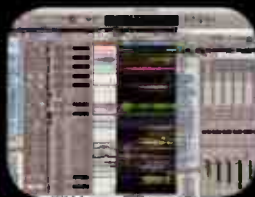
Cables inevitably get bent, tugged, stepped on, and abused. Even the highest quality cables can only endure so much before they succumb to wear and tear. Therefore it's important to keep spares. Although many cable manufacturers back their products up with long (often lifetime) warranties, they won't be open at 9pm on a Sunday evening to replace a cable while you're elbows-deep in an important recording session. If you think you'll need eight MIDI cables, buy 10. If you think you'll need two microphone cables, buy three or four. Think about it, we spend plenty of money on our recording systems. Cables are relatively small in terms of the total budget. You won't regret having that extra cable when you really need it.

Todd G. Tatnall is the Senior Tech in Sweetwater's Technical Support department.



think **big.**

Big things often come in small packages. Like D-Command, the newest member of the Digidesign[®] ICON tactile worksurface family. Packing amazing control and ICON-exclusive Pro Tools[®] functionality into a compact console, D-Command puts you in command of your creativity.



Visit www.digidesign.com/icon to learn more about the all-new D-Command tactile worksurface system for ICON. For ICON specifics, email ICON@tda.digidesign.com.

- Intuitive, touch-sensitive console control • Pro Tools | HD Accel DSP and I/O resources • 192 kHz sample rate support
- Precision 48-bit mix bus • Industry's finest plug-in options • Automatic Delay Compensation • Integrated video and delivery
- Total session recall • Unparalleled automation features • 200x more bandwidth than MIDI-based controllers

When **Virtual** Gets Real

"The Motif ES series is the perfect companion in a virtual studio environment. For me, the smooth dynamic feel of Yamaha keyboards and the immediate availability of quality sounds and great features make it a staple in my studio."

Dave Kerzner

CEO and main sound designer for Sonic Reality, Inc.

Whether Dave Kerzner is at work in the studio developing new sounds for VST plug-ins like Halion or Sonik Synth™, producing legendary drummer Danny Gottlieb or setting up custom Sonic Reality samples for the Motif ES synths on Beyonce's concert tour with Alicia Keys and Missy Elliott, this virtual synth sound developer has only one choice in hardware, the Motif ES. If your company is called Sonic Reality, you demand the best in sound quality, the most flexibility in features and the tightest integration with your PC and virtual instruments. That's why Dave always keeps it real with his Motif ES music production synthesizers.



www.yamahasyth.com www.motifalor.com www.esoundz.com

© 2005 Yamaha Corporation of America. All rights reserved.

MOTIF ES
Music Production Synthesizer



The Motif ES is not just the best sounding synth workstation on the market, it also sets a new standard for computer integration. Use the ES for hands-on control of DAW parameters and simultaneously edit your ES directly inside your Steinberg software via Studio Connections compatible Voice and Multi-Part editors. For the ultimate in total computer integration, add the mLAN16e mLAN Firewire card and turn your ES into a multi-channel ASIO sound card.



Virtually **Anything** Is Possible

Creating music these days is all about making choices. Cubase SX3 gives you more freedom of choice than any other DAW platform.

Want to add loops of different tempos to your music? SX3's new Audio Warp feature lets you twist and stretch audio any way you want. Have friends who like working on a different OS than you do? No problem, SX3 is the only cross platform DAW on the market. So whether you choose XP, OS X or both, SX3 is right there with you. Want to add outboard gear into your virtual environment? SX3's new features for integrating external hardware—including FX return channels, advanced latency compensation and Studio Connections Recall—lets you decide what external studio gear you use and how.

Cubase SX3 features the same 32-bit VST 2.3 audio engine as Nuendo 3.0, so it's not only fully VST and 5.1 surround sound compatible, it sets a new standard for audio quality.

 **Cubase SX 3**
Music Creation & Production System



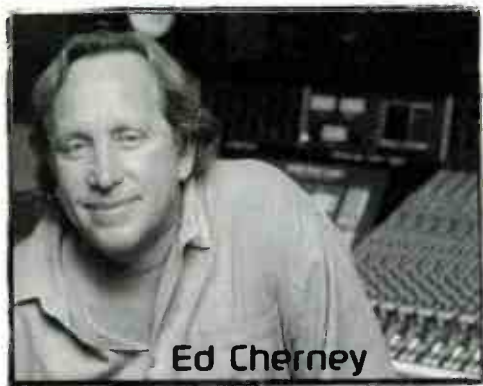
Cubase SX3 takes music production to the next level by adding more than 70 new features that give you the freedom to be creative and the power to be productive. With seamless integration of external audio and MIDI hardware, Cubase SX3 re-defines virtual studio technology.

www.steinberg.net www.steinbergusers.com www.studioconnections.org

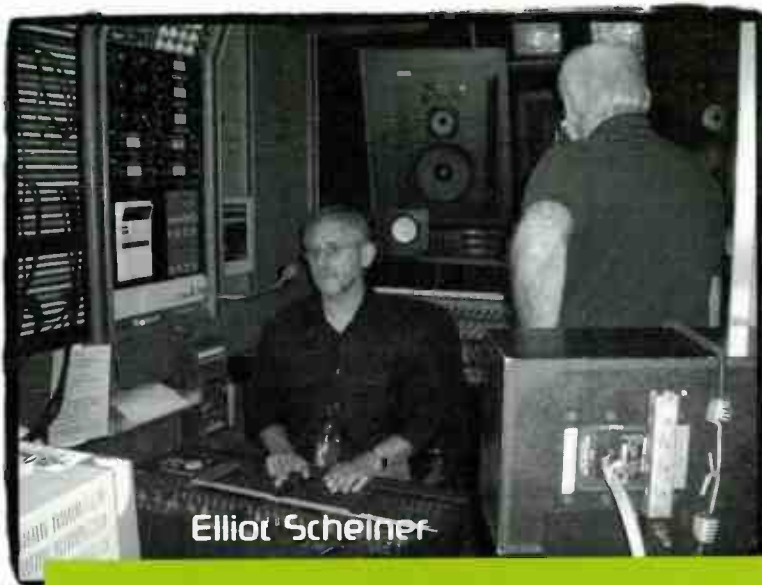
Steinberg, Cubase and VST are registered trademarks of Steinberg Media Technologies GmbH. Yamaha Corporation of America is the exclusive distributor for Steinberg in the United States. ©2005 Yamaha Corporation of America. All rights reserved.



SIX ON SIX:



Ed Cherney



Elliot Scheiner

W

by Dan Daley

What is, The Big Bang Beat, Alex? If your answer was a character definition of ROCK's most enduring and affecting instrument, then you got it: More than any other instrument, drums define rock. Guitar sounds are processed by the frontal lobes, but percussive activity takes place at a more primitive reptilian stage of the brain. And even though drums are under siege from automation, they remain at the heart of the classics that defined rock music for the last 40 years. So, just to make sure there's a Rosetta Stone for how to keep

In 2003, they were recording in Kampo Studios's large live room, fitted with an SSL G Series console. "But on the drums I used Neve 1073 and API mic-pres, pretty much bypassing the console on the input side," Dillett explains. "Since I needed [each of] the drums to speak equally in this particular groove, I miked the kick as well as the toms with 421s. I knew that with the way Steve tuned his drums, I would be able to get the bottom I needed as long as I had the front end that the 421s would give. I used Neumann U-89s on the overheads, keeping them pretty low in order to skew the kit's balance a bit more toward the toms. The snare was miked top and bottom with Shure 57s. I may have miked the hi-hat with an AKG 452, but I doubt I used much

What do **AL SCHMITT, DAVID Z, ELLIOT SCHEINER, JOE CHICCARELLI, ED CHERNEY, and PAT DILLETT** have in common? Outside of being partners to mind-roasting genius and having an insider's track on recording the ultimate drum sound? What, that isn't enough?

those STEADY ROCK BEATS coming, we asked a few great engineers to recall a favorite project and how they made the drums sound the way they did.

PAT DILLETT

On David Byrne's *Grown Backwards*, there is a track called "Dialog Box" that producer/engineer Pat Dillett, Byrne, and drummer Steve Williams dubbed as having "the Gene Krupa beat." "It has a loose kick and tom-tom groove and Steve locked into a great feel for it, so good that the performance appears pretty much untouched on the CD," Dillett says.

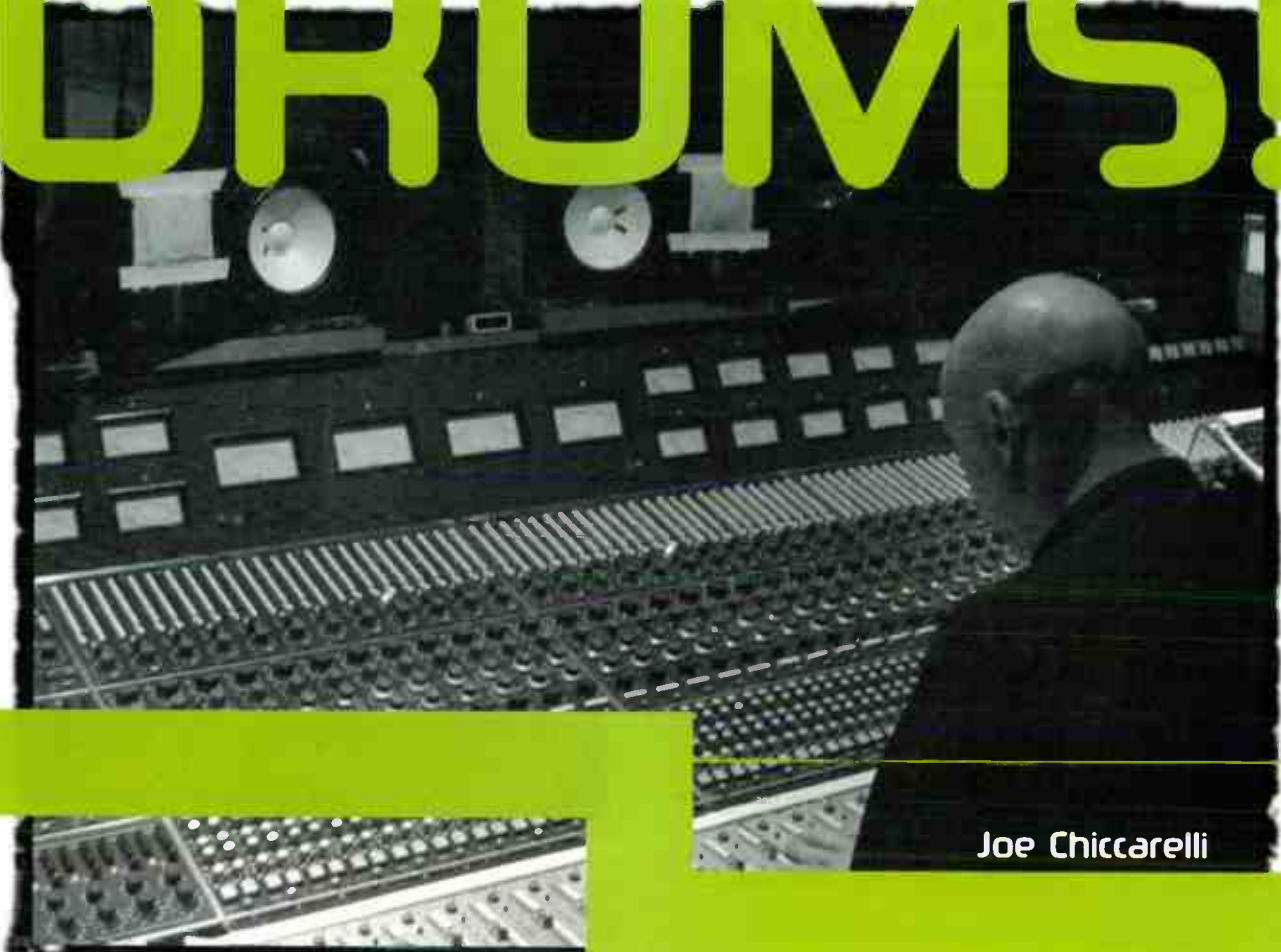
of it in the mix. We shortened the size of the room a bit with baffles to keep the rolling boom of the groove from getting too cloudy."

The result is a rolling, funky, swinging groove to which we would later add horns in order to marry old-school R&B to swing with just a touch of Latin groove. "In other words," Dillett deadpans, "we made a David Byrne record."

JOE CHICCARELLI

Elton John's *Songs From the West Coast*, recorded in 2002, is an interesting case study: a conscious attempt to get to the organic

DRUMS!



Joe Chiccarelli

band sounds he had on his earliest records. "Elton and producer Pat Leonard wanted the project to be a return to the sound of his more organic discs from the early 70's," recalls Joe Chiccarelli, the engineer on the project. Chiccarelli had an advantage from the start: the return to the studio of John's longtime drummer, Nigel Olsson.

That day, Olsson showed up at Sony Music Studios in Los Angeles with a brand new DW drum kit. It sounded great, but not with the "distressed" sound that Chiccarelli and John were looking for. "We set out to make the kit somewhat retro," he says, "stuffing the kick with blankets, putting gaffer's tape on the cymbals and — a truly classic trick — putting the drummer's wallet on top of the snare. Altogether, it made the kit sound darker, warmer, and deader," he says. "Just like 1970."

Chiccarelli followed the classic form, but with a few twists. Instead of one Shure 57 on top of the snare, he taped it together with an AKG 451 on the same stand, flipping one out of phase and positioning them relative to each other until he achieved near-complete phase cancellation. Then he put the phase back to the normal position. "A condenser [the 451] and a dynamic [the 57] microphone will pick up different tonalities," he explains. "The AKG gets more of the attack and the Shure gets the midrange of the drum." Beneath, he placed a Sennheiser 441 with its phase flipped 180 degrees in a position mirroring the top mics.

The now-stuffed kick drum was miked using a vintage AKG D-12 (not the D-112) set inside the drum and a Neumann FET 47 set just

outside it. Overhead mics were a pair of Blue Dragonflies, which he chose to better pick up the detail in the now somewhat muffled cymbals. They were set about three feet above the kit and angled in toward the point of contact between the sticks and cymbals.

But two other microphone setups truly defined the classic sound: A pair of Royer 121 ribbon mics were placed three feet in front of the kit, three feet up from the floor, and eight feet apart. They were then heavily compressed with a vintage Neve 32264 compressor with a ratio of 3:1 and compression ranging from 2dB to 10dB, depending upon the song. Then, Chiccarelli placed a Neumann U-47 tube microphone into the space created between the bottom of the rack toms and the top of the kick drum, processed with an Empirical Labs Distressor. "That's a magical little spot," he says, noting that a large percentage of the overall sound came from those ambient microphones. "The close-in mics provide the definition and impact; the [ambient] mics give you the tone and character."

It all worked. "From the minute we did the first take, Nigel's first tom fill was very lyrical and wonderfully behind the beat, as always, and sounded instantly like those classic records we wanted to emulate," says Chiccarelli. "It was like hearing *Tumbleweed Connection* for the first time."

DAVID Z

For David Z, blues *wunderkind* Johnny Lang was the continuation of a thread of white blues singer/guitarists that goes back several generations. "Drums are the instrument that often links the past and

SIX ON SIX: DRUMS!



the present and the future for that kind of music," he says.

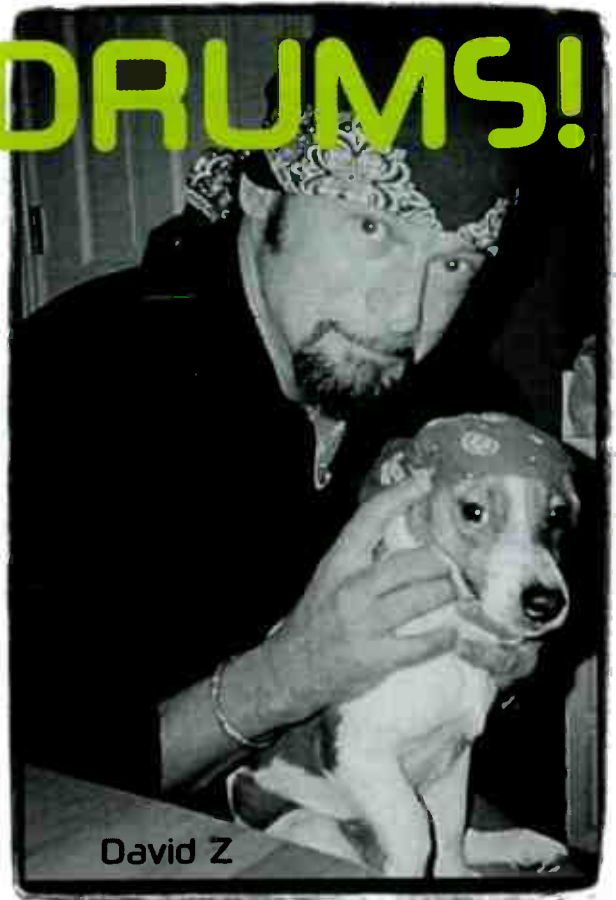
On Lang's 1996 debut *Lie To Me*, Z was working at the rather quirky and obscure Oarfin Studio in Minneapolis. "The room left a lot to be desired," he recalls. "The walls and the ceiling were all parallel — every sound produced a flutter effect, terrible for a loud instrument like drums."

Z hit every Salvation Army outlet in Minneapolis, buying up tons of old blankets, which over the course of two days were tacked to and hung from every surface in the studio. "We blanketed the hell out of that place," he says. "Just to sit down at the drums was like entering a tent."

Presence, rather than bombast, was the goal for Lang's drums. Z followed the deadening of the room with close-miking techniques. A Shure 57 was aimed across (rather than obliquely at) the top of the snare, with the tip even with the edge of the drum; an AKG 414 was placed underneath and angled slightly away to avoid phase problems. The 57 was processed by a dbx Over Easy limiter.

Z took the front head off the 22-inch kick drum, then connected a second headless kick shell to it, creating a kick drum "cannon." Inside the first kick he placed an AKG D-112; at the outer end of the second he positioned a Neumann FET U-47, both held by desk-type stands and with a touch (no more than 2 dB) of LA-2A limiting. "Also, it's important to put the drums on risers," he stresses. "It gives the wave from the kick some room to unroll [downward]."

Toms were miked with Sennheiser 421s, one per drum, angled downward and slightly away from each other, again to avoid phase issues. Overhead microphones were usually 452s but Z had bumped into some fairly exotic Russian tube microphones he used instead.



"I never saw them again and they sounded great," he says. "But I'd use a pair of high-end condenser mics up about three to four feet above the cymbals, each angled slightly away from the other."

But Z's secret weapon was a pair of "energy" microphones: two Neumann U-87s positioned adjacently on two stands and divided

"We set out to make the kit somewhat retro," he says, "stuffing the kick with blankets, putting gaffer's tape on the cymbals and — a truly classic trick — putting the drummer's wallet on top of the snare."

by a layer of foam, about four feet off the floor and three feet back from the toms. "It's like a set of ears, and then I limit the crap out of them," he says, using a stereo limiter. "It gives the entire kit a sense of urgency."

AL SCHMITT

When Al Schmitt recorded the lighter-friendly standard *Toto IV*, he had a feeling it was destined to become a classic. Those songs — 'Africa,' 'Rosanna' — they just sounded like hits," he says.

Recording in Studio B at Sunset Sound in Los Angeles, Schmitt set up an AKG 452 with a 10dB pad on top of the snare, close to the skin and about an inch from the edge of the drum. Beneath, he placed a Shure 57 with the phase turned 180 degrees on the console, placed near the snares. "I'll sneak that in during the mix to catch a bit more

Hearing is believing, so listen to this:

GC PRO ACCOUNT MANAGERS

New England:
PK Pandey
508.341.3499
pk@gcpro.com

New York:
Blue Wilding
917.297.7675
blue@gcpro.com

New Jersey (North):
Steve Jacobson
201.294.5366
steve@gcpro.com

New Jersey (South):
Rick Rivera
732.829.6389
rick@gcpro.com

Maryland & D.C.:
Mitch Shaivitz
410.935.3428
mitch@gcpro.com

Georgia:
Jason Block
678.641.0244
jason@gcpro.com

Florida:
John Sawyer
954.629.6346
john@gcpro.com

Texas:
Ron Shelton
713.992.4332
ron@gcpro.com

Minnesota:
Paul Henry
952.297.5984
paul@gcpro.com

Illinois:
Dan Scalpone
773.600.1216
dan@gcpro.com

Pacific Northwest:
Steve Palermo
206.953.8885
stevep@gcpro.com

Northern California:
Shaun Robinson
415.999.0045
shaun@gcpro.com

SoCal (Valley):
Gadget Hopkins
818.284.5320
gadget@gcpro.com

SoCal (Los Angeles):
Donovan Stark
951.318.0285
donovan@gcpro.com



"It's nice to finally have a console that seamlessly blends the analog and digital studio worlds. The AWS 900 sounds wide, open, and punchy like an SSL should. We are loving it!"

- Jimmy Jam & Terry Lewis

Legendary production team — Janet Jackson, Gwen Stefani, Mary J. Blige, Usher, many more. Owners of five AWS 900's.



"With the AWS 900, we get the features and sonic quality found on large format SSL consoles, as well as complete integration with Pro Tools[®]. This is the perfect console for today's recording studio."

- Ann Mincieli

Grammy nominated engineer for "The Diary of Alicia Keys". Other credits include Mariah Carey, Dru Hill, and Yoko Ono.



"I think this board is going to revolutionize the entire recording process. The AWS 900 will enable facilities like ours to produce materials on par with the million dollar studios at a fraction of the cost — and that's good for everyone."

- Alonzo "Zo" Lee Jr. & Shamar "Sham" Daugherty

The "Trak Starz" — credits include Chingy's multiplatinum debut, Ludacris, Britney Spears/Madonna. AWS 900 owners.

Ready to make a serious upgrade to your studio? GC Pro has the winning combination of expertise, excellent pricing and extraordinary service you need. From SSL's revolutionary AWS 900 Analogue Workstation System to the world's finest outboard gear, high-end mics, and sophisticated DAWs, GC Pro is your one-stop solution.



Music • Post • Live Sound • Lighting



GC PRO

www.gcpro.com

© 2005 Guitar Center, Inc. All rights reserved.
All images and trademarks are property of their respective holders.

Hot Dog,

by Craig Anderton with Dr. Walker, Jörg Sunderkötter, and Jan Casagrande

Frankfurt Musik Messe, that is...

The Frankfurt Musik Messe ended a week ago. This is the June issue. Will you have to wait until July to find out what was happening at the most happening show in Europe? Of course not! Even though our production department is screaming about getting copy in this late. Even though we were short-staffed at the show due to circumstances beyond our control (thanks to Germany's *Keyboards Recording & Computer* magazine for your help — we owe you guys a beer. Or 20).

Here's some of what had jaws flapping in Frankfurt.

LET'S GET SOFT

The upgrade to Apple **Logic 7.1** is \$19.95. Yes, the decimal point is in the right place. You get plug-in delay compensation for *all* signal paths, an updated version of Waveburner, more plug-ins, a lot of optimizations — and a Follow Tempo option so Logic can shift pitch and/or time when you change the song's key or tempo. Cool or what? www.apple.com/logic

Pro Tools M-Powered software (for Mac/Windows, \$349) is a version of Digidesign's Pro Tools that works with selected M-Audio hardware peripherals. And, sessions created with Pro Tools M-Powered software will open on Digidesign Pro Tools TDM and LE systems. www.digidesign.com, www.m-audio.com

BIAS Peak Pro 5 (\$599) for Mac adds upgrades for mastering and pro CD prep. Furthermore, an optional DDP file export extension offers a non-hardware dependent DDP authoring solution. **Peak Pro XT 5** (\$1,199) incorporates new BIAS plug-ins (including SoundSoap Pro) and many significant enhancements. www.bias-inc.com

Cakewalk's **Sonar LE** will be bundled in Europe/US with several Edirol audio and MIDI products. Also, Cakewalk announced a retail version of **rgc:audio's Z3TA+** software synthesizer, and a Spanish language version of **Sonar 4**. www.cakewalk.com

Native Instruments introduced **Guitar Combos** — three different virtual amps for different musical styles — for \$79 each, or \$199 for all three. Meanwhile, Reaktor fanatics flipped over **Reaktor 5**, the popular synth construction kit. www.native-instruments.com

Arturia and IRCAM announced **Brass** (Mac/Windows), a physically modeled software recreation of trumpet, sax, and trombone. Brass allows playing these instruments with control and expressiveness. www.arturia.com

An update to **Wavelab** allows integrating Algorithmix's **reNOVator** noise reduction plug-in — eliminate unwanted noises like chair squeaks, coughs, even the ringing of mobile phones while preserving the original audio material. www.algorithmix.com

IK Multimedia's **CSR-1 Classic Studio Reverb** (\$399) is a suite of reverb algorithms (hall/room, ambience, plate, and inverse) that model the sound of classic hardware reverbs. www.ikmultimedia.com

The **Komplexer** (€199) VST plug-in from Terratec Producer provides both virtual analog synthesis and wavetable synthesis. It can import Waldorf microQ sounds, making Komplexer the plug-in equivalent of this famed synthesizer. There's also an integrated vocoder. www.terratec.net

LET'S GET HARD

Dynaudio Acoustics' BM 5P (€580/pr) is a 2-way passive version of the BM 5A nearfield monitor. Its small footprint makes it well-suited for smaller suites. www.dynaudioacoustics.com

G-System (€1,395) from TC Electronic is a floor-based unit with guitar effects and loop/routing facilities for external pedals and preamps. www.tcelectronic.com

Trigger Finger (\$249.95) is a mobile/desktop device for easily triggering and programming drum sounds. It connects to a computer via USB, and includes 16 velocity- and pressure-sensitive pads, 8 assignable knobs, and 4 assignable faders. www.m-audio.com

RØDE's **D-PowerPlug** is an in-line, phantom-powered cable mounted amplifier that converts a dynamic mic to high-level, balanced operation. Clever. www.rodemic.com

Korg **kaptivator Dynamic Video Station** can sample, mix, process and play back hundreds of video clips — including live video — in real time, without any additional equipment. You can then use



Z3TA+



Brass



Komplexer

it's Frankfurt!

16 clip pads to access and play individual clips. Two LCD screens monitor the live video in and out, as well as saved clips. A DV connection can accept or send digital video format (DV) signals to or from a DV camera. www.korg.com

The recipe: Take two really great plug-ins from Creamware's **Scope** platform, Minimax and Profit-5. Fold in six voices, 128 factory/128 user presets, and place in physical box. Garnish with remote software for Windows, then add a MIDI keyboard. Serve classic sounds with modern packaging. **Minimax ASB** (\$899), **Profit-5 ASB** (\$999). www.creamware.com

The **PowerCore PCI mkII** (€1,140) from TC Electronic includes the same 14 processing plug-ins included with PowerCore FireWire; it's compatible with VST, AU or RTAS audio systems. www.tcelectronic.com

You want analog summing. You don't have a zillion dollars. **MixDream XP** is a 16 x 2 summing box without MixDream's inserts and processing stages, so it's smaller and costs less. Entirely discrete signal paths run on 60V rails in Class A mode. www.soundperformancelab.com

Korg's **D3200** is a 32-track digital recording studio that includes a Session Drums feature to create realistic drum tracks. Other features: automated mixing, 100 scene memories, and MIDI-controllable mixer parameters. USB 2.0 connectivity transfers data with computer-based DAWs. www.korg.com

We're not sure what the **Resonator Neuronium** is, or how it works. We got lost somewhere around the second paragraph: "The Resonator Neuronium has 6 analog resonant neurons. We have 6 neurons with $6 \times 6 = 36$ net connections for one parameter. In order that summation and FM is connected, we have $2 \times 36 = 72$ net connections with individual pots for each node." Hey, whatever — it's a way cool-sounding tone generator. www.jayemsonic.de/ResoneuroBildEngl.html

LET'S CONNECT

RME Multiface II, the latest PCI-card based member of the Multiface family, has improved the analog input stages and headphone amp, lowered the THD on the analog outs, and more. www.rme-audio.com

Digital Musician Net offers tools to find and work with potential collaborators via the net. The accompanying **Digital**

Musician Link, a plug-in for PC/Mac music software, establishes an internet audio and MIDI connection between two VST 2.0 compatible hosts. It allows recording a music performance remotely via a standard DSL internet link, and includes a built-in video conferencing system. www.digitalmusician.net

Edirol's **UA-101** (\$695) is a half-rack USB 2.0 Windows audio interface, providing 10-in/10-out, 24-bit/96kHz full duplex audio (or up to 6 channels at 24-bit/192kHz), and WDM/ASIO 2.0 drivers. www.edirol.com

Terratec Producer's **PHASE X24 FW** is a FireWire studio interface with two analog ins, four outs, digital I/O, MIDI I/O, insert jacks and gain knobs. Furthermore, the original **PHASE 24 FW** is now mLAN-compatible. www.terratec.net

The ESI **MaXiO 032** (\$599.99) is a 24-bit/192kHz PCI Audio/MIDI interface with four ADAT I/O ports. The basic MaXiO 032 system consists of a breakout box and a PCI interface, but can be expanded to a full MaXiO XD system by adding one or several EX8000 units. www.esi-pro.com

Steinberg's **ASIO 2.1** now supports the DSD (Direct Stream Digital) format, and allows transporting DSD format audio between audio applications and hardware that support the standard. Download the SDK from www.steinberg.net.

LET'S MAKE SOUND(WARE)

Vienna Symphonic Library's **Opus 2 – Orchestra** (\$495) is a Horizon Series library that expands the potential of Opus 1 and the First Edition with new articulations, more instruments, and comprises basic articulations of instruments taken from other Horizon Series titles. Available in EXS24, GigaStudio, HALion and Kontakt formats. www.vsl.co.at

The **Grand 2** (€299) from Steinberg features an additional grand piano model, four-channel surround implementation, RAMsave to automatically unload unneeded samples from memory, and supports VST, DXi, AU and stand-alone. ReWire support provides Pro Tools integration. www.steinberg.net

Spectrasonics' **Burning Grooves** (\$99), with live drum grooves laid down by **Abe Laboriel Jr.**, is a Groove Control activated S.A.G.E. Xpander library for the Stylus RMX virtual groove instrument. www.spectrasonics.net



Trigger Finger



UA-101



Burning Grooves

it's Frankfurt!

Notes from the Underground: Dr. Walker's Instant Reviews

Dr. Walker is an underground icon in Germany, for his musical work (*The Deathray*, *Helden der Revolution*, *Air Liquide*, *Rei\$\$dorf Force*, solo CDs), his movies, and his legendary underground dance parties that draw thousands. He's also brilliant. And totally mad. So what better choice to cover envelope-pushing goodies? His assignment: Find things you send to recorders and things that process what you recorded. Then play with them enough to write "instant reviews." Take it away, Doc. . .



The Messe had a lot of the same plug-ins/MIDI here/softsynth there. How can you explore new music if you don't have a *sexual relationship* to your instrument? The big companies shouldn't only build "compact cars" for the masses — we need more people who design *musical instruments* instead of *tools*. If a tool gets old, eBay and goodbye.

Here are things that aren't just tools

The **Manikin Electronic Memotron** is a freaky hardware (!) Melotron clone with digital samples of the original Melotron tapes. You have to be completely insane to build a hardware clone of this old cult tape sample — and that's so cool. www.manikin-electronic.com

It's not new, but Messe had the most evolved version yet of Dave Smith's **Poly Evolver** keyboard. It's the synth of the year, no question. That beautifully crafted blue screaming monster creates an incredibly huge bandwidth of sounds: Warm phat analog, thin sharp digital, wonderful unheard noises, scary effects . . . it's not just a retro synth, it makes sounds that will power the electronic music hits of 2006. This blue monster is bigger than Godzilla, cooler than Robocop, and sexier than Kylie, which is saying a lot. www.davesmithinstruments.com

The **Vermona ReTubeVerb** has a wonderful vintage (retro) look and sound. I love a desktop spring reverb unit with 3-band EQ and a real tube for that big analog vibe. Back to the 60s! www.vermona.com

Schippmann's Ebbe and Flut is a rack mount analog filter with envelopes, noise gate and LFOs. It's perfect to twist around and "phunk up" sounds. The prototype is very solid, I was going wild torturing some knobs but the inventor had no fear that I could destroy his baby. Bravo for stuff that handles rough use on stage. www.schippmann-music.com

The **Curetronic Modular System** modules are handmade in Germany; they're designed to survive rockin' live acts or going wild on at your studio. Their web site lists all the modules,

which are also available as DIY kits. You can get the front panels in a dozen different colors, or personalized — good for design freaks. A Frankfurt 2005 highlight. www.curetronic.de

It's warm, it's huuuuge, it's little, it's green: The **MFB Fricke Filterbox** is a wonderful analog sequenced desktop filter; the eight sequencer steps can be triggered by input trigger or MIDI clock. You can fatten softsynth strings with massive analog phasing, trash up your drumbox grooves, create weird psychedelic soundscapes, or turn your grandfather's Farfisa organ into a deadly underground acid weapon — everything goes. www.mfberlin.de

The **Edirol cg-8** video synthesizer created some really cool projections. It has a sensor pad plus two D-beams, very promising for the next step in live video manipulation. But every visitor on the fair wanted to check out the machine at the same time, so when I tried to focus on this baby dozen of other little sticky stinky fingers were pushing buttons and changing menus, so I had two choices: Let my fists talk and cause a punchfest, or peacefully ask Edirol for a test unit to check out back home at Club Camouflage at our next acidparty! The acidparty option sounded like more fun. www.edirol.com

If you worship at the Church of White Noise, the **Macbeth m5** was the most impressive new analog synth. It's handcrafted in Scotland by analog genius Ken Macbeth and generates wild electronic noises. It's sorta like an ARP 2600, or at least inspired by that cult synth. It's pricey so I have to sell my car and soul to finance it, but no sacrifice is too great. www.macbethstudio.com

I can't resist a good MIDI controller, and now **Doepfer** has a ribbon one. How cool. An inner voice is forcing me to order it from their web shop . . . cannot fight urge . . . www.doepfer.de

Oh yes, and **Jomox** presented the **xbase999**. It's a promising-looking beatdevil that's based on the xbase09 and has 12 voices, but you can upload your own samples, like a modern TR909. For my studio and live shows it's a must. www.jomox.de

And here's what I want next year: A rediscovery of the 1/4" mono patch cable. The software industry has spent millions trying to simulate that flexibility of this silly little cable but never succeeded. If we are talking about real analog equipment, the patch cord is the king of what makes something analog — it's not just the sound. We need those "freedom wires" again!



Curetronic Modular System



MFB Fricke Filterbox



Macbeth m5



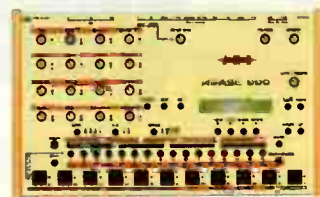
Vermona ReTubeVerb



Edirol cg-8



Schipmann's Ebbe and Flut



xbase999



POWERCORE PCI MKII

Who says all PCI cards are the same?

PowerCore PCI mkII is the latest member of the PowerCore family, TC's hardware powered plug-in platform. It is a potent processing solution for DAW's including 14 high-quality plug-ins from the onset, and the doors are opened for a wealth of top-quality plug-ins from 3rd party developers and TC Electronic. PowerCore PCI mkII features processing power similar to the renowned PowerCore FireWire, and it is the prime choice when internal processing is preferred. PowerCore PCI mkII integrates with virtually any VST, AU and RTAS* based digital audio workstation for Mac or PC.



* Via the VST to RTAS adapter from FXpansion (optional)



PowerCore

Superior plug-ins, tailor-made hardware

t.c. electronic
ULTIMATE SOUND MACHINES

TC ELECTRONIC A/S DENMARK ▶ ☎ +45 8742 7000
TC ELECTRONIC INC USA ▶ ☎ (818) 665 4900 ▶ MAIL: INFO@TCELECTRONIC.COM

WWW.TCELECTRONIC.COM

World Radio History

it's Frankfurt!

The 2005 Music International Press Awards

Magazine readers can't influence it. Manufacturers can't put in the fix. The music industry's most prestigious awards ceremony draws on the editors of 58 magazines worldwide to nominate, then vote on, the best of the past year. Props to all, especially Gerald Dellmann of Musik Media in Germany, for getting this baby off the ground six years ago. Winners are listed first, followed by the other final nominees.

MIPA Lifetime Achievement Award: Mr. Robert Zildjian, Founder of Sabian.

Best Innovative Product: Apple GarageBand, Line 6 Variax Acoustic, Spectrasonics Stylus RMX

Guitar Effects (19" or Floor): Line 6 PODxt Live, Boss GT-8, DigiTech GNX4

Guitar Combo Amp: Fender Cyber Twin, Mesa Engineering Lone Star, Hughes & Kettner Matrix 100

Keyboard/Synthesizer (Hardware): Access Virus, Dave Smith Instruments Poly Evolver, Alesis Micron

Sampler (Hardware / Software): Steinberg HALion 3, E-mu Emulator X, NI Kontakt 2

Stage Piano: Roland RD-700, M-Audio ProKeys 88, Yamaha P250

Keyboard Workstation: Korg OASYS, Roland Fantom X 2.0, Yamaha Motif ES

Sound Libraries: Apple Jam Pack, Garritan Personal Orchestra, Vienna Symphonic Library Horizon-Series

Software Instruments: Korg Legacy Collection, NI Absynth 3, Arturia Arp 2600 V

Organ/Portable Keyboard: Clavia Nord Electro 2, Hammond XK-3, Roland V-Combo/VR-760

Live Sound Mixing Desk: MIDAS Verona, Innovason Sy80, Soundcraft GB4

Portable Sound: JBL SRX 700, Dynacord Madras, Bose Personalized Amplification System

Live Microphone: AKG WMS 4000, Sennheiser Evolution G2, Shure SLX

Tour Sound: L-Acoustics KUDO, HK Audio Cohedra Compact, EAW KF730 Line Array

Recording Mixing Desk (Project Studio): Yamaha DM-2000, Mackie Onyx 1640, Yamaha 01x

Mixing Desk (High End): SSL AWS900, SmartAV The Smart Console, Studer Vista 8

Studio Microphone: AKG C414 B-XLII, Neumann M149, Schoeps CMD 2U

Studio Monitor (Nearfield): Genelec 8000 Series, Blue Sky Media Desk, Dynaudio Air Series

Surround Tools: Steinberg Nuendo 3, Steinberg Wavelab 5.0, SPL MMC1

Recording Software: Cakewalk Sonar 4, Apple Logic Pro 7, Ableton Live 4

Desktop Recording Workstations: Tascam 2488, Korg D32XD, Roland VS-2400CO

Recording I/O Devices: MOTU 828 MkII, RME Fireface 800, E-MU 1820 / 1820M

Recording Hardware: Digidesign Pro Tools HD, Tascam 2488, RME Fireface 800

Recording Effects (Hardware/Software): NI Guitar Rig, PSP Nitro, Universal Audio UAD-1

Dance/Groove Gear Groove Box: Roland MC-909, Akai MPC1000, Korg Electribe SX

DJ-Software/DJ-Tools: Ableton Live 4, Stanton Final Scratch, NI Traktor

If you're serious about a career in audio recording, you need to attend a school that is as committed to your success as you are:

The Conservatory of Recording Arts & Sciences

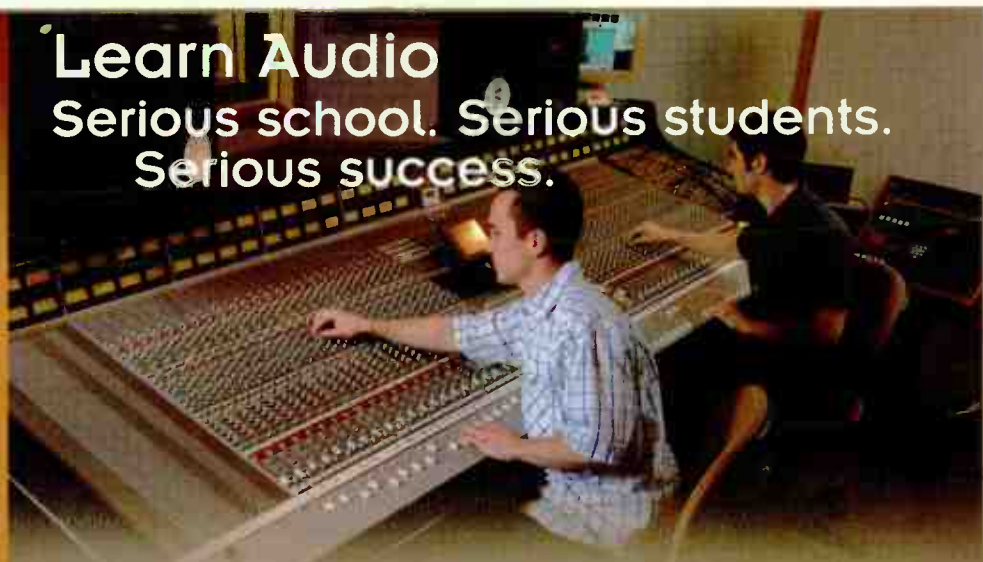
Conservatory students work with cutting edge equipment in world class studios. They study under seasoned instructors with industry experience who know what it takes to succeed.

An internship is mandatory for graduation, and our students choose where they go to do it.

Conservatory graduates have earned hundreds of Gold and Platinum records and even Grammy awards. They record music with the world's top recording artists. If you're willing to put in the work, and if you meet our requirements, we can help you make your mark in the business too.

To find out more, call the Conservatory at 800-562-6383 today.

Learn Audio Serious school. Serious students. Serious success.



Conservatory of Recording Arts & Sciences

2300 E. Broadway Rd. | Tempe, AZ 85282

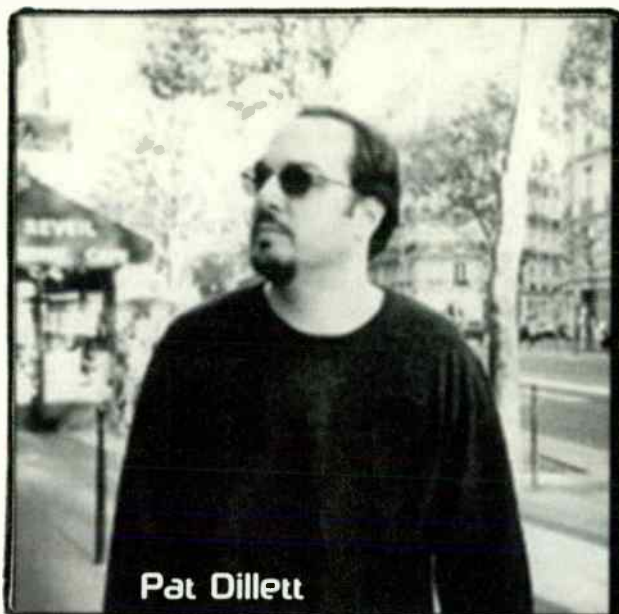
1205 N. Fiesta Blvd. | Gilbert, AZ 85233

800-562-6383

www.audiorecordingschool.com/eq.html

Nationally Accredited by ACCSC
Financial Aid available to those who qualify





Pat Dillett

of the 'crack' of the snare," he says. "Flipping the phase avoids cancellation problems with mics that close together."

Jeff Porcaro's kick drum had an outer skin with a hole, and Schmitt placed an AKG D-112 aimed into that about an inch or two back from the skin. "I'm looking for the punch from the bottom end, but not the pedal sound," he explains, noting that he'll help that along with a few dB at 60Hz while tracking. (Otherwise, no EQ at all.)

Rack and floor toms get an AKG 414 apiece, each placed close in — about an inch and a half from the rack toms and two to three inches from the floor tom — set at cardioid and with a 10dB pad. The high-hat had a 452 placed six to eight inches away and slightly above.

Overheads are a pair of AKG 452s set in a modified (*i.e.*, "almost") X-Y configuration positioned on booms directly over the drummer's head and forward about a foot. "The ideal here is to get a great balance between the cymbals and toms just from these two microphones," says Schmitt. In addition, an AKG C-24 (the stereo version of the C-12) was placed about 20 feet in front of the kit at a height of seven feet. "That's where a lot of the ambience comes from," he says.

That should do it, says Schmitt. "Nine times out of ten, you don't need EQ. These days I like to add some of the 'wood' room from the T.C. Electronic M-6000, but back then I would have applied a little bit of the studio's chamber or an EMT plate. That's it. You let the microphones speak for themselves."

ED CHERNEY

Bonnie Raitt's "Love Letter" was recorded in 1989, in Ocean Way's Studio 2. Engineer Ed Cherney recalls he set out to get the sound down as quickly as possible. "Before you wear out the drummer," he says. In anticipation of this, Cherney had set up a classic ambient microphone array: a Neumann U-67 set back 10 feet in front of the kit about head-high, flanked by a pair of Neumann M-50s set 20 feet back, 10 feet high, and spaced 10 feet apart. "It's a huge image," says Cherney. "But you can really hear the room. I don't think I used any reverb at all on the drums." "It's also a

Hammerstein Ballroom, New York City • October 29th, 2004

"I feel the best aspect of a Switchfoot performance is the vocals. Jon's lyrics have a true positive message. So making the vocals clear, warm and present in the mix is really important. The fans want to hear and feel every word. The MPA Gold and Pro VLA give me everything I need to make that happen."

Ryan Nichols
Front of House

switchfoot

ART

Miles of Credibility, Years of Success.

Pro VLA™ This powerful two-channel tube compressor limiter is the ideal tool for live sound engineering and studio recording. Using a transformerless design throughout, it maintains exceptional signal integrity and extremely low noise and transparent. Our Pro VLA excels in areas where transparent, expressively musical dynamic control is demanded.

MPA Gold™ This versatile two channel tube mic preamp features variable input impedance, selectable plate voltage and exceptional frequency response. Its unique tube circuitry utilizes two 12AX7A vacuum tubes and renders unsurpassed sonic detail and clarity with the broadest range of microphones. Our MPA Gold delivers warm, natural tones for vocals, as well as electric and acoustic instruments.

Applied Research & Technology • 215 Tremont Street • Rochester, New York 14608
585.436.2720 • info@artproaudio.com • www.artproaudio.com

A Yorkville Group Company

SIX ON SIX: DRUMS!

sampler's delight: Ricky Fataar opens the track with four bars of a naked drum groove."

The drums' attack came from several close microphones. The kick had a Sennheiser 421 set inside and close to the beater and an AKG FET 47 set about two-and-a-half feet out from the center. "Where you place that one can be figured out by placing your hand in front of the kick and feeling where the sound wave ends," Cherney explains. "That mic captures the fundamental, around 50-60Hz; the inside mic gets the 2-3kHz 'snap.' Between the two, you won't have to radically EQ it."

Actually, Cherney says it takes some discipline, but rolling off at key frequencies and compensating with gain on the fader produces a more natural sound than boosting. "I roll off a bit around 250 and get much better phase coherence," he says.

The snare was recorded using a B&K 4011 on top with a Sennheiser 441 below. "The 4011 is a sensitive mic with a lot of headroom," says Cherney. "It's a great mic for a drummer with nuance like Ricky. Also, it's a condenser. I was getting sick of 57s even then." A pair of AKG C-12s was placed above the kit to round out the microphone array. "It gets you about as natural a sound as you can get without any sense of it being processed at all."

ELLIOT SCHEINER

"Subtle" and "nuanced" are words often used to describe Steely Dan records, and they certainly depict the drum sounds on the duo's *Gacho* LP, which producer/engineer Elliot Scheiner tracked at A&R Studios in New York in 1980, with Bernard Purdie playing most of the drum parts for the record.

When it came to the snare drum, less was more: He placed only a single Shure 57 on the top of the snare, set about an inch and a half above the rim and about two inches inside the rim. "Those guys didn't play the drums hard usually," he explains. "Like the double shuffle on 'Babylon Sisters,' you can hear the tip of the stick rolling a little on the skin. Moving the mic further into the center picks that up. It just doesn't need a bottom mic, and that also eliminates any potential phase issues."

The kick was miked with an E-V RE-20, placed toward the right side of the front of the drum at the same height as the beater. "That's the starting point that works for some reason," Scheiner says. "It gives you a good combination of attack and deepness. Then I move it around from there until I get what I want."

Toms were miked with Sennheiser 421s mounted two to three inches above the skins and pointed down. Overheads were a pair of AKG 414s set between two and three feet above the cymbals. On the hi-hat, he used an RE-15. "A very directional, very focused microphone," he says. "It won't pick up leakage, which was important since we often kept only the drums from those tracking sessions and overdubbed everything else."

There were no ambience microphones, nor did Scheiner apply EQ to anything other than the kick drum. "Donald and Walter were very sensitive to EQ," he says. "And I never used any compression — the minute you do that you're taking the dynamics out of it. Instead, I just rode the faders as I would when doing a vocal part. Drums are a mix within a mix." **EQ**

GXL Studio Packs
Just add inspiration

GXL3000 Stereo Studio Pack One GXL3000, Two GXL1200s & One EPF15A Pop Filter
GXL3000 Studio Pack One GXL3000, One GXL1200 & One EPF15A Pop Filter
GXL 2200 Stereo Studio Pack One GXL2200, Two GXL1200s & One EPF15A Pop Filter
GXL 2200 Studio Pack One GXL2200, One GXL1200 & One EPF15A Pop Filter

 www.cadmics.com
800-762-9266



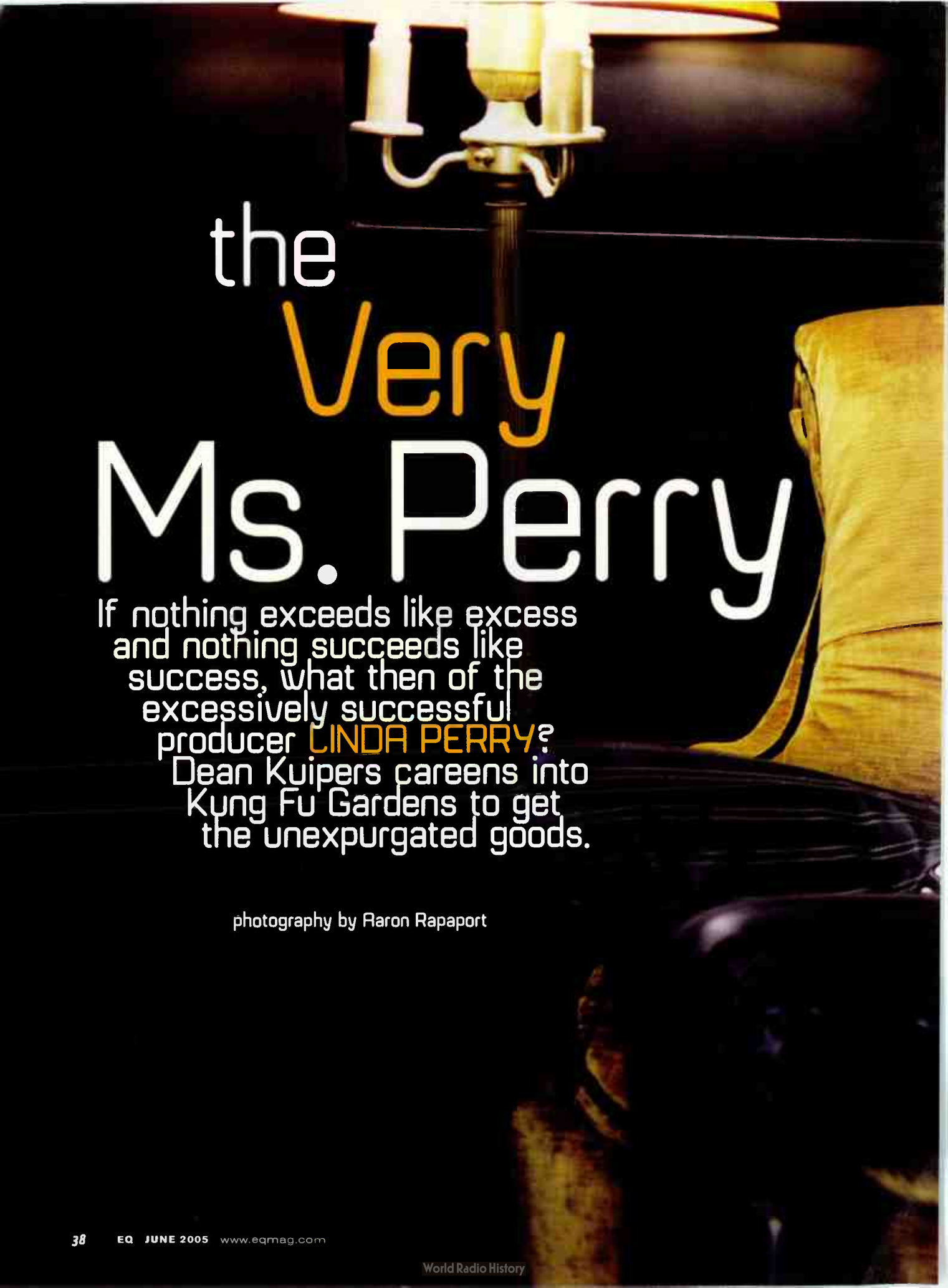
Magic Wand

The cold, hard facts of room acoustics challenge every studio, large and small. JBL engineers thought it was time for a little magic. Introducing the LSR6300 Studio Monitors, the first reliable solution for tackling the real-world problems inherent in every room. Featuring the exclusive JBL RMC™ Room Mode Correction system, you can accurately measure boundary-induced low frequency modes with the included hand-held acoustic analyzer and then adjust each speaker's 1/10th octave parametric equalizer to correct problems in your room. Designed from the ground up, the LSR6300's uncompromising specs and features give you total control of your music production. See your JBL Dealer today and experience the power of LSR6300 Studio Monitors with RMC - magic you can really put your hands on.

LSR6300 Studio Monitors – Mix Without Boundaries.

Learn more about the power of the LSR6300 Studio Monitors and RMC at www.jblpro.com/LSR



A photograph of a room with a lamp and a yellow pillow. The lamp is a three-bulb pendant light with a brass finish, hanging from the ceiling. The room is dimly lit, with the lamp providing the primary light source. A yellow pillow is visible on the right side of the frame. The background is dark, possibly a wall or a large piece of furniture.

the Very Ms. Perry

If nothing exceeds like excess
and nothing succeeds like
success, what then of the
excessively successful
producer **LINDA PERRY**?
Dean Kuipers careens into
Kung Fu Gardens to get
the unexpurgated goods.

photography by Aaron Rapaport



World Radio History

Nothing in this room

gives warning that Linda Perry is about to hurt you. Candles flicker over the familiar Neve 8058 board in her sprawling, newly acquired Toluca Lake studio, Kung Fu Gardens. Perry's big laugh flashes in the half-moon darkness like an invitation, an enormous charisma piercing the smoke curling off her cigarette. Somehow, the deep introspection common to all studios feels different here, more buoyant, carrying a whiff of affirmation.

But, like just about everything else concerning Linda Perry, this comfortable feeling is a strategy. Because, if she likes you — if you click — she's going to tear your world apart. She's not going to scrimshaw her signature on your music like the Neptunes or Timbaland or Glen Ballard. Hell, she's not even going to listen to your last album. Instead, she's going to do something terrible: *She's going to become you*. And like a body snatcher, she's going straight into unfamiliar territory to strip out songs you didn't know you wanted to write, working lightning fast, 'round the clock if you can do it, and then spit you out the other side, spent, wondering what just happened, probably with a DAT in your hands with a hit song on it.

At least, that's the way it worked for Pink and the out-of-nowhere hit off *Missundaztood* that made both her and Perry household names, "Get This Party Started." And with Christina Aguilera, Courtney Love, and Gwen Stefani — bringing on a flash flood of recent acts aimed her way, from Unwritten Law's "Save Me" to Kelly Osbourne to Fischerspooner to Sierra Swan to Cheap Trick.

"I'm not a songwriter," Perry says, in her sharp, impatient purr. "I think my biggest problem with where I'm sitting right now is this 'songdoctor' title that I get. I hate it. I don't like writing songs for people. People have a misconception that's what I do. That's just what happens. If you and I are connecting, something is going to happen."

She reached into Stefani's head, for instance, and pulled out the hit first single for her eclectic, dance solo album, *Love Angel Music Baby*. The No Doubt style-kitten was a reluctant partner — Stefani was skittish about Perry's penchant for mid-tempo ballads and quirky pop with her former band, 4 Non Blondes. When the two did finally get together at Enterprise Studio in Burbank, Stefani was hesitant and uninspired. As the singer gave up that first day, frustrated, Perry was left with a question: *What are you waiting for?*

By daybreak, Perry had built a song around it. Stefani walked in and pounced. They ad-libbed lyrics for a few hours, then listened to what they had and wrote a new melody. Channeling Stefani as a character gave Perry an idea: She immediately built four different microphone set-ups to produce four distinct sonic personalities, reflecting the singer's schizoid swings between self-confidence and collapse without the band that had made her famous.

"I put the mics right in a row: the U47, the 251, a 67, and a C12. I labeled them all for her. I said, 'What you're going to do is, after every line you're going to switch to the next mic. So I had all the tracks up, and she's like: 'Like a cat in heat, stuck in a moving car' — switch — 'A scary conversation, shut my eyes, can't find the brake.' She sang the vocal down like that. That's the exact vocal that's on the radio, that take."

This illustrates two points about Perry: 1) she gets the sound through the gear, not by fixing it in ProTools or on the board; and 2) she doesn't have any standard way of working.

She's the first to admit she doesn't even know what some of her gear is supposed to do. She doesn't want to know. She wants to be surprised.

She ran the Telefunken U47 through the Neve 1073 mic preamp and the Teletronics LA2A Compressor/Limiter. The Neumann U67 also went through the 1073, her favorite pre, and through a Fairchild 670 compressor (she owns three of these, plus a couple 666s). The AKG C12 mic went through the 1073 and then through the light touch of the E.A.R. 660 compressor/limiter ("Because it's such a nicer, pristine little mic, and the E.A.R. is best when you have a real pretty singer," Perry says). Finally, the Telefunken ELAM-251 ran through an Avalon EQ and an Avalon AD-2044 compressor. She tweaked them, driving the U67's compression hotter than the U47's, making them all distinct.

The rest of the song was built around that vocal. Perry did most of it herself, programming the beat on a LinnDrum with a snare sample from her archives, and playing the bass line (she considers herself better on bass than on any other instrument) on the Juno 60 synth. The guitar was her own '53 gold top Les Paul through an overdriven Fender tube, miked with a Neumann U57, again through the Neve 1073 pre and then through the compressors on Enterprise's SSL 9000 board. ("I absolutely love the compressors on that 9000," she says. "I'm trying to find a set pulled out of an old 9000 that I can get in here.")

Stefani left the studio with not just a demo — but with the actual tracks. Perry wanted Gwen to have them when she worked with Nellee Hooper putting the songs together. Hooper, she says, went on to use most of her material, and gave her no co-production credit. They are still wrangling about this now.

"I'm bitter about that," she snarls. "Welcome to the production business; you get screwed over here, as well. That's the first time I let someone have my tracks, and the last. It came down to asking: What did you use of Linda's? He went, 'Oh, I used the guitar and a keyboard.' I listened to the track, and I was like, 'You're using my lead vocal, all my background vocals, my rhythm guitar, my keyboards, all my little fluff. You used 75 percent of my tracks, Nellee, what the hell are you talkin' about?' So I know better now."

It wasn't the first time she'd used the shock of near-telepathic empathy and awe of weird science to get results. When working with Christina Aguilera on the 2002 album, *Stripped*, she was agonizing over whether or not to give Aguilera one of her most personal songs, "Beautiful." While putting together a demo, she let Aguilera read the lyrics, memorize the melody, and then gave her one vocal take.

"I just got this feeling, that shiver, and I'm like: *This is my take. This is my vocal take*," she recalls. "I had her on the U47 through my 666 Fairchild, through the Pultec EQ." She called in session players and built the rest of the song around that one take. Aguilera didn't like the idea, saying she could do it better. After arguing about it for seven months, Aguilera agreed it was gripping and put it on the album. "And if you solo the vocal, you can hear the pages turning!" Perry laughs. The two of them are currently working on new material.

The point is: imperfections and happy accidents rule. Perry's job, the way she sees it, is to make them happen. To push artists out of their comfort zones, even if it takes a push, deeply contemplative studio to do it. And this goes for

herself, too: At one point, she was writing with Aguilera from 4 p.m. to 2 a.m. every day and then moving to another studio, and from 3 a.m. to 8 a.m. unleashing loud, raw rock'n'roll as the self-appointed new guitarist on Courtney Love's album, *America's Sweetheart*.

"We were drunk, we were tired, we were delusional. The demos sound better than the album — sloppy, really rock, like the Faces," she says.

And yes, despite her protests, Perry does write for other artists. She co-wrote the entire new album for Kelly Osbourne, *Sleeping In The Nothing*, while the famous "daughter of darkness" was in rehab. Looking for a breakthrough, Perry convinced Osbourne that her pop rock debut, *Shut Up*, was weak, and this time wed her highly emotional recovery lyrics to a deep '80s electro pulse done mostly on electronics. Osbourne was only let out long enough to nail her vocal tracks.

"That's my job: to make sure that it's not another Linda Perry production," Perry affirms. "People are going to start hearing a lot of stuff coming out right now. And you'll be very shocked, because it's all so different."

Okay, but it's still nice to know some things are sacred. She didn't mess with Cheap Trick. They came to Kung Fu Gardens, plugged in, and played two songs like they know how to play. "I was so intimidated!" she laughs. "I used to



I put the mics right in a row: the U47, the 251, a 67, and a C12. I labeled them all for her (Gwen Stefani). I said, 'What you're going to do, after every line, you're going to switch to the next mic.'

get stoned to *Budokan* every day!" She couldn't abandon herself to wild experimentation. "In my mind, I didn't write something better than 'Surrender,'" she says wistfully. "How could you write something better than 'Surrender'?" **EQ**

LINDA PERRY POST-FACTO

ON AMPS

"I tend to favor the older stuff, and not because it's cooler — it's just better. It is. That Marshall [a 1971 Marshall JCM

800] sounds way better than that brand new Mesa Boogie, and that's 1971 and that's 2005 or 2004. That's just a great-sounding friggin' amp. And not because it's old. They just hand-built these things, and these are manufactured. The Mesa/Boogie — I just don't get it. I bought one because I wanted to find out what that sound was that I kept hearing on the radio [laughs]. So I bought a Mesa/Boogie, and I went, like, 'I think it's a Mesa/Boogie with a Paul Reed Smith.' And so I put it in there, and I went, 'There's that friggin' sound' [laughs]! Kids don't know the difference between a 1971 Marshall and a Line6 Pod. No, they don't. I use Line6 for, like vocals. I throw vocals through it. Because, when you want that wacked out sound, that's what I use that for."

wireless DAW control

TRANZPORT™

... it's a control thing

- ⌘ 2-way RF for wireless, through-the-wall communication with your DAW
- ⌘ Presets for Pro Tools®, Digital Performer™, Sonar™, Cubase® and other DAW apps
- ⌘ Easy setup, fast access to your most often-used functions
- ⌘ Remote control of transport, mutes, solos, punches, markers, loops and more
- ⌘ Onboard metering, time display, track info, footswitch jack
- ⌘ Compatible with Mac® OS X and Windows® 2000/XP

FRONTIER
DESIGN GROUP

www.frontierdesign.com

© 2004 Frontier Design Group LLC

ON 4 NON BLONDES & THE HATRED THEREOF

"I hated the 4 Non Blonde record. And David Tickle would never tell me anything. I'd ask him, 'Why is the guitar sound so thin?' 'Linda, can't you just go be an artist? I'll worry about this stuff in here.' 'I really don't like the way that sounds. I feel like there's just too much — what is that sound? It's all over the place?' I didn't know it was just reverb. I didn't know. I knew nothing when I made that first record with the band. And he was so unhelpful. And when we got the record, I hated it. It's like, 'Ewww. I hate these sounds.' It sounds too glossy, and that's not who I was."

ON THE GENIUS BILL BOTTRELL

"When I got together with Bill, I asked so many friggin' questions, he finally just grabbed me, sat me down — he had the same board, the 8058 — threw me in front of the board, and said, 'This is the 1176, this is what I'm putting on the guitars. The Pultech I have in on the bass and on your vocal. The Fairchild, I'm running the stereo bus. You know, the whole mix through. Okay. Here's your effects sends. Here's your channel, obviously, here's your volume. These are your lows. These are your low mids. These are your high



After arguing about it for seven months, Aguilera agreed it was gripping and put it on the album. "And if you solo the vocal, you can hear the pages turning!" Perry laughs.

mids. And these are your highs. You don't like a sound? Push this in here, and tweak those until you like it.' And I'm like, 'Well, isn't that wrong? DO you go too far?' And he's like, 'Linda, you tweak it until you hear it. Don't watch the meters. Don't listen to the speakers. Just listen to your ear. And if it sounds good to you, then that's the right way. There's no right or wrong way about it.' And from that moment on, I thank him for why I'm here now."

ON MICS & THE SUPER SLIDE INTO RANDOMNESS

"The fun part, for me, is moving the mics around and changing the mics out. 'Okay, my kick doesn't sound right.' I don't go and make it sound right on the board. I go out there and move the mic around. And maybe I'm using the wrong mic. So what else can I do? Well, I'll go into the mic vault, 'This guy looks kind of sexy.' So I'll tell the guys — 'Go play random microphones.' And they're like, 'Random microphones?' 'Just grab two random microphones, reach in there, and stick 'em in front of the guitar.' And either it'll work or it'll be the most miserable sound I've ever heard in my life."

Dean Kuipers' work has appeared in Spin, Raygun, Playboy and a host of other mags almost as cool as this one you're holding.

GRACE
d e s i g n
H I G H F I D E L I T Y

Built to a higher standard

Welcome to the inside of our model 801 microphone preamplifier. While few manufacturers would freely advertise the inner workings of their products, we are proud to show them off.

At Grace Design, we are seriously passionate about what we do. The near obsessive approach we take with our circuit designs, component selection, and manufacturing process is the means to one end—delivering the finest high fidelity audio products money can buy.

From our eye-popping model 101 single channel mic preamp, to our flagship model 801R remote controlled mic preamp system, or our new m904 and m906 reference monitoring systems, we build products to help you realize your highest level of excellence.

We invite you to contact your friendly Grace Design dealer for more information or to schedule a product demo. Once you do, you'll discover why our products are truly built to a higher standard.

Thanks to all of our friends for helping us celebrate ten years of audio excellence

For complete product information, please visit us at www.gracedesign.com or call 303.443.7454

sweetwater creation stationTM series

Finely Tuned PCs for Powerful Audio Performance

Professionally optimized to deliver maximum track counts and plug-in muscle!

Who will you trust to build your next system?

When you make a major investment in an audio PC, you need to know that it's powerful, dependable, and trustworthy. There's one name in the business that audio pros have learned to trust — Sweetwater.

Built by Audio Professionals with Audio Pros in Mind: NO ONE has designed, installed, configured and tested more audio computer systems than Sweetwater! We took all of that experience and built it into the perfect audio workstations. We carefully selected every component — right down to the drive mount grommets — to squeeze every drop of audio juice out of your system.

Certified "Whisper-Quiet" by Auralex: Nothing is more important in your studio, and Sweetwater's 10-point Sound Dampening Technologies lead the way! Creation Stations are so quiet you may not even know they're on. In fact, they've been lab-tested and certified by Auralex as "Whisper-Quiet," with the lowest dB levels on the market.

Compatible with Virtually All DAW Hardware and Software: You can confidently run any Windows audio app on your Creation Station. They're Digidesign-approved for Pro Tools LE and HD. Plus, we've tested and certified Creation Stations to work with virtually all popular software and hardware including SONAR, ACID, GigaStudio, Nuendo, E-MU, MOTU, M-Audio, RME, TASCAM, and more!

Rock-Solid GLYPH Hard Drives Plus Intel, ASUS and More: Creation Stations feature an industry first — Glyph hard drives, backed by Glyph's amazing overnight replacement guarantee! All models also include components by Intel, ASUS, NVidia, and Zalman.

The Most Affordable Quiet PCs on the Market: While other companies sacrifice quality for price, Sweetwater worked to bring you the best machines at the lowest cost. We encourage you to compare Creation Stations to any other brand — Sweetwater gives you more computer for your money!



Included FREE with every PC



The World's Best Tech Support Staff: You can actually TALK to the people who built your Creation Station! No one knows more about audio computing than Sweetwater.

SweetCare Remote Service: Our technicians can log directly on to your computer if you should ever need help.

Pro Audio Keyboard and Mouse: Even at these low prices, Creation Stations don't come "stripped." They include a custom 110-key Media Station Keyboard and a 3-button Optical Mouse.

Pro Audio Software Suite: Every Creation Station is loaded with useful music and audio applications including utilities, educational software and samples.

Professional Audio Optimization: Your PC is ready for audio, right out of the box! Our technicians perform a 40-point hardware and OS optimization procedure to ensure that your hardware and software will work glitch-free.

My new Creation Station Audio PC is the cat's meow. I like the CPU speed, fast bus architecture, default RAM, dual drives, and ultimately its quietness. There have been times when I've had to check if I left it on because I couldn't bear it running! — Dave C.

SWEETWATER EXCLUSIVE! Buy your audio hardware and software from us and we'll install and configure it for you to get you recording right out of the box!

Choose your
pro audio
dream station!



creationstationrack

- Intel P4 3.2GHz
- Glyph 80GB & 200GB SATA HD
- 5 Available PCI Slots

\$2149.97



creationstationpro

- Intel P4 3.2GHz
- Glyph 80GB & 200GB SATA HD
- 5 Available PCI Slots

\$1999.97



creationstationcube

- Intel P4 3.0GHz
- Glyph 80GB & 120GB SATA HD
- 2 Available PCI Slots

\$1849.97



creationstationtower

- Intel P4 2.66GHz
- Glyph 80GB ATA HD
- 2 Available PCI Slots

\$999.97

All models feature ASUS Motherboard, Zalman CPU Cooling System, Optical Drive, Media Station Keyboard, Optical Mouse, Music Technology Media Reader, and Sweetwater's Ironclad Two-Year Warranty.

Sweetwater
music technology direct™

Get the Whole Creation Station Story
(800) 222-4700 www.sweetwater.com/pc

World Radio History



Out across the ramparts of the whole analog/digital divide, breakaway bands of audio engineers met in a clustered San Francisco enclave of old gear and new to see if it's true what they say when they say, "back in my day..."

OLD DOGS VS. NEW TRICKS

Luke O'Brien's *EQ* exclusive goes deep, deep, deep into a Paul Stubblebine-sponsored shootout of tube v. transistor, and the winner is...

By Luke O'Brien

They had come from all over the city.

They'd come through the traffic and the rain, wearing Dolby Surround Sound T-shirts and windbreakers with "Electrical Workers Local 180" on the back. Some had gotten there early and waited outside, clustered against a cold San Francisco night. Some had come late. But they were all here now, 70 strong, all ages and sizes, pilgrims packed into Coast Recorders, talking shop, guzzling soda, and jonesing for a throwdown. They were a motley horde: a gang of sound engineers, music producers, union members, and audio junkies from all over — diehards every one. Like a cockfight. Or a cage match. They maneuvered for position and the studio anteroom swelled with their anticipation.

You see, *mano a mano* duels like this didn't happen often. Coast Recorders and the Audio Engineering Society had promised the recreation of a battle played out daily on the technological and economic frontlines of the audio industry. Tonight, Old School would meet New School. Rocky would slug it out with Drago. That's right. Tonight, analog would square off against digital.

Ring the bell. It was time to get it on.

THE PRELIMS

In the back of the building, in the Bill Putnam-designed recording studio that had hosted Joe Satriani among others, the engineers at Coast scrambled to hook up the mics that would simultaneously feed the live sound of a rhythm section into both a Neve console and a Power Mac G5 running Pro Tools. With the instruments miked in parallel setups, the audience would be able to toggle between analog and digital in the control room and the mastering

room. It would be "a tasting" of both styles, they said, trying to de-escalate the conflict.

"We want to give people a chance to see the two approaches side by side," said the estimable Paul Stubblebine. "This isn't a showdown. We're not trying to prove a point or create a winner or a loser."

Sure.

Standing on a chair beneath a Ray Charles statuette and a toy replica of Nipper, the RCA dog, Stubblebine looked, for a moment, like a general trying to rally his troops. Despite his disclaimer, he did have something to prove.

"We have a whole generation of young engineers who've grown up with the computer and assume, without thinking it through, that it's always better to do it on a computer," he proclaimed atop his perch. "But everything is much faster the old way." The incessant tweaking allowed for in Pro Tools lengthened production time, Stubblebine said. "From a studio standpoint, digital is a way to fill more studio hours," he said.

So it seemed. It had now been two hours since the first gearheads piled into the studio. They were restless. One of them fiddled with a pair of headphones he'd stashed in his backpack. Another jawjacked about MP3s: "You'd have to pay me to listen to them!" In a dark corner, a twitchy fellow munched on a hoagie and muttered into his chest. There might not be a winner or loser tonight, but there'd sure be some action.

THE SHOWDOWN

Finally, they were ready to rumble. Stubblebine descended from his chair, and the first wave of listeners lined up, stamping their feet

FOR OVER 30 YEARS LEXICON HAS BEEN IN WORLD-CLASS RECORDING STUDIOS...



ΩMEGA™ DESKTOP RECORDING STUDIO

...NOW YOUR HOME CAN BE ONE OF THEM.



OMEGA DESKTOP RECORDING STUDIO™ INCLUDES:

- Steinberg® Cubase LE® — Multi-Track Recording Software
- Lexicon® Omega — 8 Input x 4 Bus x 2 Output USB I/O Mixer
- Lexicon® Pantheon™ — World Class VST Reverb Plug-In

More than 30 years ago, when Lexicon invented digital reverb, most recording studios were multi-million dollar rooms occupied only by famous rock stars and big record labels. And while Lexicon still lives in that rarified air of stardom with the world's most sought-after reverbs, now you can find us a lot closer to home.

Now Lexicon brings you the Omega Desktop Recording Studio, a completely integrated recording system with everything you need to transform your computer into a full-on professional 24-bit digital studio, all in one box. In addition to Steinberg Cubase LE® recording and production software, you'll get an 8-input, 4-Bus, 2-output USB I/O mixer with inserts, instrument input, MIDI I/O and complete metering and monitoring functions. Record up to 4 tracks at once from 8 audio sources, and mix up to 48 audio and 64 MIDI tracks almost anywhere...with the lush, exquisitely rich reverbs that made Lexicon famous in a VST version of Lexicon's Pantheon® reverb plug-in.

Pick up an Omega Studio at your Lexicon Pro dealer today, and discover for yourself why that famed "Lexicon Sound" has been on the majority of hit recordings since 1971. Who knows? Maybe the next one will be yours.

lexicon PRO

COMPLETE RECORDING SOLUTION

CONTAINS ALL THE COMPONENTS NECESSARY TO TRANSFORM YOUR COMPUTER INTO A PROFESSIONAL 24-BIT RECORDING STUDIO.

World Radio History

and preparing to storm the bowels of the building. The recording studio loomed at the far end of the hallway, a room full of light wood and sharp angles. The engineers had turned it into a bristling forest of microphones. Everything from vintage American condensers to the latest Swedish dual membranes had been strategically angled over the instruments (drums, bass, piano, guitar). A group of local musicians would do the honors.

The old-school mics would feed into a 60-channel Neve V3 console with onboard preamps in the control room where Ben Yonas, a producer and Coast co-owner, would officiate. All the compression and EQ would be done in the Neve, which was hooked up to a giant 600-lb EMT 140 reverb plate at the front of the studio, and an old Studer 827 24-track tape machine in the control room. The sound coming through the Genelec monitors would be from the Studer's repro heads.

On the new-school side, the mics would run into Millennia HV-3 preamps, then Genex A-to-D converters at a 24-bit, 96 kHz sample rate before going to Pro Tools HD in the control room. To produce a range of effects similar to the old-school setup, Yonas would use only a few basic Pro Tools plug-ins.

Introductions over, the first group of a dozen people crammed into the control room. The Neve twinkled with light. The Studer's needles bounced as the reels spun and the two-inch tape wound through the heads. All chunky buttons, knobs, and brushed metal, the old-school equipment looked powerful and venerable, avuncular even. It dwarfed the room's computer, which felt like a cheap toy in comparison. But the computer was no flyweight. It was doing the same work in a twentieth of the space. Inside, it was probably digitally laughing. If it could be programmed to talk trash it would say this: *"Hey, fool! I'm so fast that last night I turned off the light switch and was in bed before the room was dark.... Hey sucka! Not only do I knock 'em out, I pick the round.... Hey, you know what, sucka?! You know how the world works? It works like this: Grass grows, birds fly, waves pound the sand. I beat people up."* And then, just maybe, in a heavy Russian accent after a suitable dramatic pause: *"I must break you."*

Ding.



In the recording studio, the band launched into "Between the Sheets," the 1983 Isley Brothers hit. Yonas cranked up the volume. The bass came through, rich and plangent. The song had been sampled so often everyone had heard it, but no one could place it.

"Are we hearing the old-school sound or the new-school sound?" Yonas asked his audience.

Silence from the gallery. The bass flooded the room. It felt warm. Warm meant analog. But maybe it was more tepid than warm. Tepid and crystalline and digital? Or warm and earthy and analog?

"No one wants to guess?" Yonas said after several seconds.

No one did. Either this pack of experts had turned meek or none of them could tell what they were listening to.

"Digital," Yonas said, disappointed.

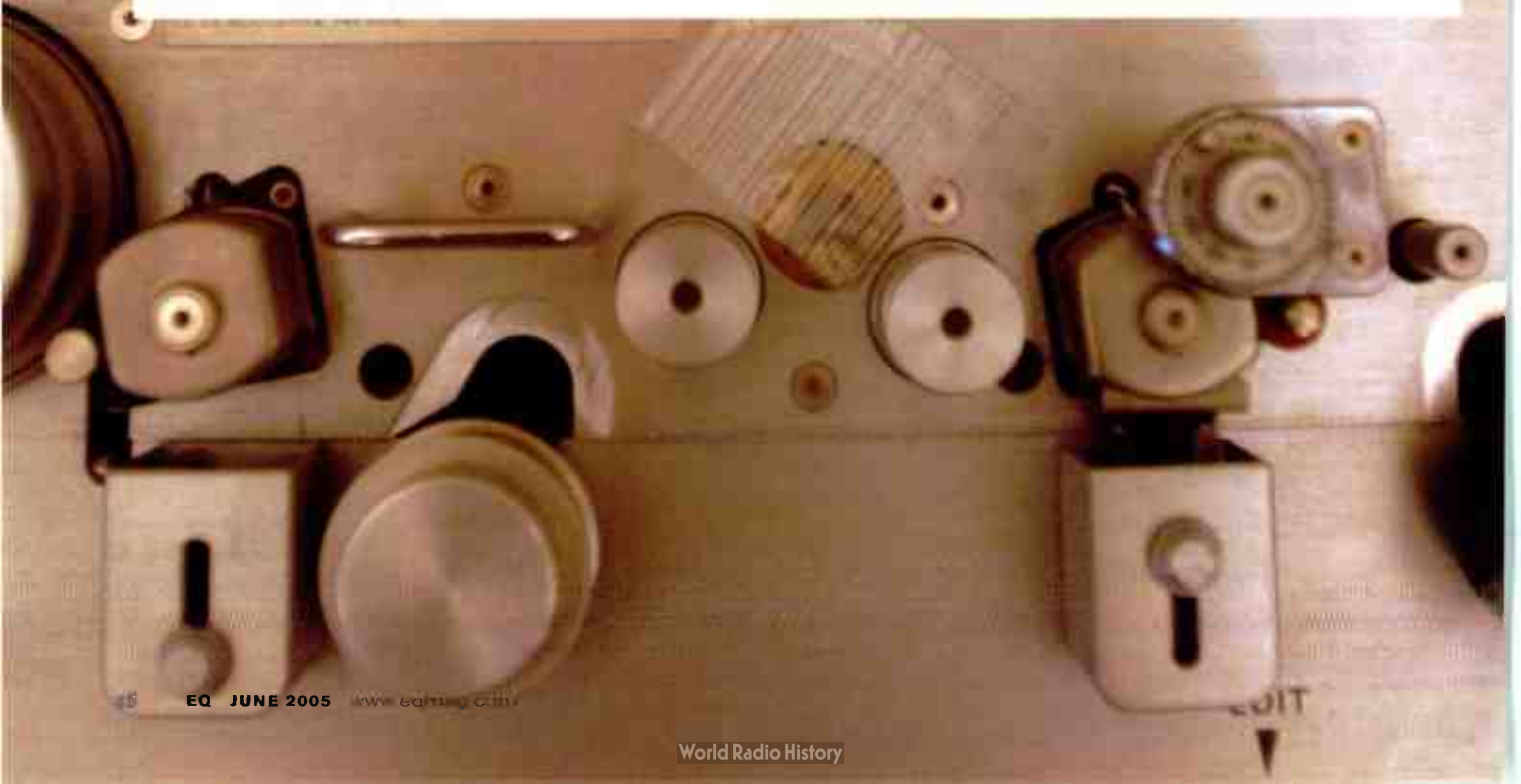
The audience exhaled. Yonas pointed out the sibilance from the new school overhead mics, then switched to analog and cocked his head to listen to the RCA 44 kick in. The iconic rectangular ribbon microphone, evocative of big band and WWII-era broadcasters speaking fast through cigarette smoke, prompted a lot of sighs from the audiophiles. Between sets in the studio, they approached it carefully. They ogled its grille. They marveled at its class.

"Formidable," someone called it.

Nat Koren eyed the 44 as he moved slowly through the studio. He looked it up and down. Studiously. He cast an eye over the other gear, bending down over the snare drum and sniffing the Shure SM57. Koren glanced at the Altec 21D on the piano. Then he paused. "As far as a shootout is concerned," he said, "it's apples and oranges."

There were too many different microphones running at the same time, said Koren, who works for Hungry Ear Sound and does theater sound design for the San Francisco Opera. Choosing a winner between analog and digital tonight would be like scoring a bout between fighters in different weight classes with different styles fighting for different titles. Impossible.

Although almost all the mixing and processing in Koren's line of work had gone digital, he had a confession to make. He



leaned close. "I'm still a fan of analog," he said. "It's more pleasing to listen to over the long term."

Ding.

THE LOWDOWN ON THE SHOWDOWN

They emerged from the studio and careened around the front room. Some looked spent, others energized. They clustered in groups of three and four and relived the evening's action. Dave Peck stood against the back wall wearing a satisfied grin.

"This wasn't definitive, but it was fun," said Peck, an engineer at Euphonix. "Plenty of scientific comparisons [of analog and digital] have been done, but this wasn't one of them. It was more to illustrate the differences if you recorded the same band 25 years apart."

Like Koren, Peck, who prefers working with analog, said the number and diversity of microphones, along with the crowds in the listening rooms, made a winner impossible to determine. Apples and oranges?

"More like apples and pork chops," Peck said.

But see, there was a winner because his broadside was, fundamentally, bad news for the old school: In a broader sense, a no-contest decision is tantamount to defeat for analog. For the sound that Stubblebine calls "more expressive and more dimensional" to stay relevant, it has to overpower the more affordable competition. That hasn't happened. Instead, the inexpensive computer — compact, available to the masses and utterly lacking in respect for its elders ("Hey, fool! The man who views the world at 50 the same as he did at 20 has wasted 30 years of his life!") — has forced both



Paul Stubblebine waiting on the man.

the analog pros and the studio system to knuckle under.

"It's a philosophical dilemma," said Jim McTigue, the vice chair of AES and the head of electrical engineering at Euphonix. "Everything goes in circles."

McTigue shook his head and brushed back a strand of his long white hair. "Where are the real bits? The golden ears?" he wondered. He was lost in thought now, adrift in nostalgia. "I started working when sound was king. Now technology is king."

Everything goes in circles.

Back in the control room, McTigue hovered over the old Studer. He'd tinkered with these machines for more than two decades and could estimate this one's age by looking at the serial number. Mid-80s. McTigue crouched down. Gently, he put his hand on the Studer's side. He checked its levels. His hand lingered. McTigue grew up in Queens and studied karate. He knows a thing or two about fighting. His uncle was the light heavyweight boxing champion of the world.

Tonight, though, in the struggle between old and new, between heart and head, McTigue was just a man in the corner of a desperate underdog. If he'd had a towel, he might have thrown it in. But the band was playing again, and the funk music swelled, and it was time to go to work.

No one even heard the final bell.

Luke O'Brien has written for National Geographic, Rough Guides and a cash-strapped Caribbean newspaper. He currently writes about music for the SF Weekly and plays guitar. Poorly. His friends, however, consider him a very musical man.

THE ARSENAL

The Old School:

Mics

kick drum: Sennheiser MD421

snare: Sennheiser MD421 (top) and Shure SM57 (bottom)

hi-hat: Neumann KMB4

drums overhead: Neumann U67 and RCA 44 ribbon

piano: Altec 21D

bass: Jensen D1 transformer

guitar: RCA 77 DX ribbon

60-channel V3 Neve console with on-board pre-amps

Studer B27 24-track with 2 inch tape (16 track tape heads)

Outboard: EMT 140 tube stereo reverb plate

The New School:

Mics

kick drum: Audix D6

snare: Shure SM-57 (top) and Audio Technica 4050 (shell)

hi-hat: Millab DC96

drums overhead: two Telefunken M16s

piano: two DPA 4015s

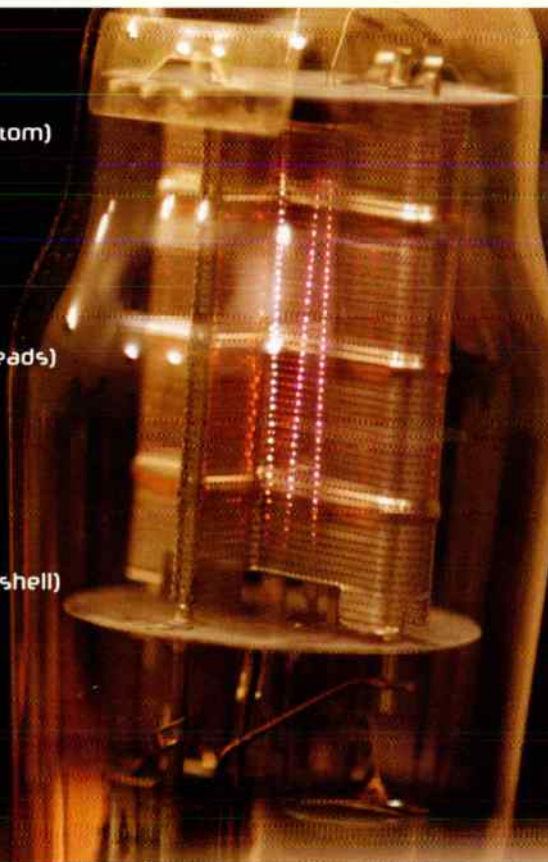
bass: Millennia TD1

guitar: Royer 121 ribbon

Millenia HV-3 preamps

Genex A-to-D converters at 24/96

Pro Tools HD on a dual 2GHz Power Mac G5



HOWARD BILERMAN IS ALIVE AND WELL AND LIVING IN MONTREAL

You are officially being served notice that the grid-edited, sound-replaced, auto-tuned pop-punk record with ironic, sarcastic vocals you're working on right now is already out of style. Its time has come and gone.

Engineers and producers, maybe you included, are often heard complaining about modern music. "The bands can't write, they can't play, computers make musicians lazy 'cause there's unlimited tracks and editing, and the industry sucks," then adding, "I'm looking for the next big thing."

Right. According to the news, the Montreal, Quebec, music scene is that "next big thing." Interestingly enough, in Montreal there are folks who haven't been simply grunting the same old

complaints. They've been working. Differently.

But back up: Montreal IS indisputably unique. Back in 1997, music clubs in Montreal were "pay to play," much like the clubs where you are/might be. That year, **Godspeed You! Black**



the dif

If you've ever (never?) heard of **ARCADE FIRE**, **A SILVER MT. ZION**, or **GODSPEED YOU! BLACK EMPEROR**, it's clearly about time that you know that their plush post-rock operatic set pieces, offsprings of many fathers, have been ushered into existence by one: studio owner/engineer Howard Bilterman. *EQ's* Robert Breen bends the ear of the ear-bending Bilterman on everything from **JOY DIVISION** and **LEONARD COHEN** to compressing close mics for the home team.

Emperor put Montreal back on the musical map when their self-recorded album got praise worldwide. Being independent, they even actually earned some money. Members Efrim Menuck and Thierry Amar put it back into their city, starting the hotel2tango as an alternative performance venue. Local artists could play for free and keep 100% of the door.

Many of these bands made their first recordings not far away at Mom & Pop Sounds with owner Howard Ian Bilterman, an engineer with a vision and aesthetic completely out of sync with the times. As good clubs gradually opened for the groups to play, the hotel2tango evolved into a fulltime recording studio,

which Howard runs with Efrim and Thierry, now **A Silver Mt. Zion** members.

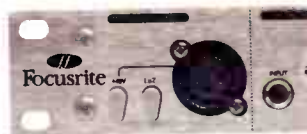
In Montreal, the clubs got better, artists met and collaborated, the bands got better, their art was documented, and the word got out . . . in that order. There's your blueprint . . . no grid mode or auto-tune.

Talking with Howard Bilterman about music and engineering is, truly, inspiring.

Montreal had been portrayed in the press for years as

Put yo

"Gr
we



V
g
ef
S

Twini



"This really is one serious p
to make sense in the
Paul W



For a demonstration,

HOW

financially and cultural while we weren't looking

First off . . . never believe Montreal's economic over-exaggerated, as French and English. The lack of here grow in an organic attention is doing to be

You have an analog s booked four months everyone else do you

I guess the way I work ing, but it's not on pur

Who are your influer

I am constantly learni It's so easy to get up "isn't right". They see about imperfections r makes a recording hu

Last year, I realized th duced by the same g 61 Revisited, the first Morning Coming Dow (to me) Bob Johnstor all those great recorc and pick his brain. The David Briggs . . . all c so I don't really know sound, but under the often-malignant pres

Steve Albini has bee recording, and politi of an industry with s university graduate i



HOWARD BILERMAN

music and like the people who make them. The industry side of things is the most repulsive and lecherous world I have ever laid eyes on.

The industry has nothing to do with the Arcade Fire hype, though. Thousands of fans, instead of press agents, used their text messagers, blogs, and websites to tell each other about them . . . the industry only noticed because they had to. Don't you think that's cool???

I think it had more to do with the fact that they played two or three years of live shows before *Funeral* came out. This got people talking . . . and they would have been talking with or without the Internet. It is still the best advice I can give any band . . . PLAY SHOWS!!!!

You've described your production role as that of a "midwife" . . . How do you help a band perform their best?

Recording was originally a process of documenting. With the advent of multitracking, it turned into a process of *creating*. This yielded some pretty remarkable creative achievements, but it also was the beginning of most records being lies. The listener was asked to believe what they were hearing was a band playing music, but really, it was a piece-by-piece assembly. Computers have taken this lying to a whole new level, and I don't want to have any part of it.

I try to document what is happening on the other side of the glass. This means having people be as comfortable in the studio as in their practice space. Too much futzing around with mics and sound-checks only reinforces to an artist that they are under a huge microscope. That's why I like things to happen fast, and why I don't feel it's beneficial to spend hours comparing the difference between two mics on, say, the snare.

I'm not endorsing carefree haplessness here. I do have 14 years of experience recording, so it's that knowledge that has afforded me this attitude.

Do you think folks younger than us are genuinely moved by recordings that are polished, tuned and timed perfectly, or programmed?

If the fall of the Third Reich and eugenics has taught us anything, it's that there is a huge danger in trying to define "perfection," and work toward that ideal at all costs. Tinkering with tempo and pitch diminishes the feel of a song. To me, that is a great loss. I am not saying there needs to be obvious errors in a recording to make it "human" . . . but I am saying that listening to music that someone has tried to make "perfect" is really boring to me.

How do you deal with obvious performance issues that'll hurt the final product? An exchange I remember was,

"You've made me do this line 60 times, man!"

"You've given me 60 shitty takes."

That's funny! Um . . . well . . . I try to be really gentle about stuff like that. I think it's important that the record ultimately reflects where a band is. Sure, people struggle with stuff . . . but I try to make the record sound like the band playing live on a good night. You talk about "final product" as if it were something separate from the sum of the band's parts, which it's not really.

It is with some producers. But I know what you mean. . . .

Now there's always the situation when someone hears what they just played, and are in shock at how different it sounds from what they intended . . . that's completely different.

"The right mics in the right places" . . . how do you approach that?

Well . . . not having 200 mics makes the decisions a lot easier. Usually I'll track more than I need to tape, and not worry about which one I'll use until later. I think it's pointless to tell you specific applications, because a 2" difference in placement can alter the sound drastically . . . so can the way the person plays.

Do you cut vocals live?

I would love to record more vocals live, but most musicians these days don't want to worry about vocals when they are tracking beds. Actually, we ended up using a scratch vocal on the new A Silver Mt. Zion album (*Horses in the Sky*) as the final vocal, because after listening to it, there was no way Efrim was going to do a better take . . . so we kept it despite the drum bleed.

Efrim's vocals on the song "Horses in the Sky" have a neat, roomy sound. Your space at the hotel to my ears sounds like a secret weapon — and you use it.

Well . . . those vocals were mic'd with a close and an ambient mic. In mix, we compressed the close mic, and added 30ms of delay to the room, panning the delayed signal across from the original. The result is the voice becomes roomier when Efrim sings louder, and the room sound moves a bit. That "trick" was so satisfying that we ended up using it on a few songs.

You mentioned you'd love to trade places with Alan Lomax. There's a "Garfield's Campfire" location credited on "Hang On To Each Other" . . . did you actually record around a campfire???

It was one of the most gratifying experiences of my recording life, on my birthday in fact. Spent the afternoon setting up and breathing the country air . . . city troubles melting away. We waited until nightfall and tracked a few songs to tape, lit only by the moon and the campfire. It made me want to move our studio next to a lake.

How did you start recording Arcade Fire's *Funeral*?

We started by laying down everything people played live or in practice, then filled up spaces with other stuff as we saw fit. There were lots of guests who came in. A lot of the overdubs

got worked out in the studio. I'm really big on using the stereo-field, and love to find little "pockets" to tuck stuff in.

Can you tell me about some of those overdubs? The sounds are so intriguing. . . .

The vocals on "Laika" are an old RCA Jr.Velocity, run through a distortion pedal and double tracked. During a rough mix, Win [Butler] accidentally added a lot of reverb on one line. He ended up liking it so much, we did it on the mix... In part 2 of "Wake Up," we needed to add claps and piano, but only had one track left. We just gathered everyone 'round one mic, and compressed it pretty heavily. It's one of my favorite parts of the record.

In "Tunnels," Win's guitar [on the left] is a heavily compressed room mic that triggered every time he stomped. It sounds like a needle bouncing up and down on vinyl! I begged for us to track it again, but Win refused. I wonder if anyone sent their 7" back to Merge thinking it was defective?

The Beatles always made sure to keep their mistakes, too. I think that's so cool. . . .

When we tracked "Rebellion," Richie [Richard Reed Parry] was pressing Record while I was playing drums, and he forgot to record-enable the overheads. When we finally got it, I realized the overheads didn't get recorded, so all we had was the close kick and snare. Win convinced us to keep it, and Richie tracked

another snare from 15 feet away, which we mixed in with the other snare in parts.

The booming snare effect in "Power Out" really makes that song kick, especially on the radio.

That "effect" was actually that we kept the kick and snare click-track that I played to. It enhanced the real drums in an interesting way.

I was wondering if there was even a click used on the record!

We used a click on two songs . . . for different reasons. Win and I were really big on how early New Order combined real drums with drum machines . . . so for "Power Out" we programmed some drums to play the pattern, not knowing if we'd keep them or not, then tracked a real snare and hi-hats. "Power Out" owes a lot to New Order/Joy Division. Dare I say certain drum patterns were . . . "ehhhem" . . . borrowed. I guess it was even more uncouth to steal some recording ideas as well!

On "In the Backseat" we used a click because all these great string players were in Montreal for the afternoon, but we hadn't laid the beds yet. The strings played to a click, then we tracked the drums afterward.

Tim Kingsbury told me the album was mixed "together" by everyone. How that did work?

It's Not Rocket Science

(well, maybe a little)



You don't have to be a "Rocket Scientist" to design and build great analog gear. But, you do have to be pretty darn sharp. Even so, our engineers took over two years to develop the new Joemeek twinQ.

The result? A "Best of Breed" studio channel designed for your digital world with just one thing in mind... so that when you plug one in, it'll put you in orbit!

Find out more about the twinQ and our other new models. Visit www.joemeek.com

JOEME EK
If it sounds right, it IS right!

FBI Audio Group, 1145 W. YORKMEN, Dallas, TX 75221, Tel: 877-343-4335, Fax: 972-381-9031, web: www.joemeek.com, Copyright © 2004 FBI Audio Group. All Rights Reserved.

HOWARD BILERMAN

I am loathe to accept too much credit for how *Funeral* sounds because, yes, it was a group effort. I did the lion's share of setting up the mics and pressing buttons, but Richie did a bunch of that stuff too. As for mix, usually I'd setup the board . . . basic levels and pans, then hand things over to Win for a bit. Then I'd step in at the end to refine things. Anything that meant the songs were how Win heard them in his head was fine by me, and if it meant sitting on the couch for an hour, that was ok.

Usually that is not the way I work. For the most part I'll play around with the faders until everything seems right, then ask the band for their input. This is not to say they are excluded from the process at the beginning, because at that stage there have usually been some rough mixes done, and some comments on them, which informs the mix.

Is your console automated or do you "use the force" when you mix? A mentor of mine calls it that.

Hands-on . . . sometimes more than two are needed . . . that's when things get really fun!

The Mt. Zion record has the biggest dynamic range I've heard on CD possibly ever! Aren't records these days supposed to be as loud as possible?!?

The Mt. Zion mixes had a great deal of dynamics, which is a direct reflection of the music. We really wanted to keep that. The mastering engineer left us with a 35db dynamic range. Dynamic range, to me, is what is exciting about music. So many times a CD goes in to be mastered, and it comes out so different from the mixes you know and love. We are really lucky that a good friend of ours, Harris Newman, masters most of our stuff. He takes the Hippocratic oath, "do no harm."

"Is no harm your oath too?"

I think we need to move back to a place where going into a recording studio is more about documenting, rather than creating. . . . If you take that approach, then you serve the music in a completely different way, and are generally far more sensitive to the artist and their songs. Finding space to be creative within that is the true art of recording.

Want more? Check out www.eqmag.com for Bilerman on Thalia Zedek.

Robert Breen is a freelance writer, long time studio jock, and an instructor at the Ontario Institute of Audio Recording Technology (www.oiaart.ca) in London, Ontario, Canada. His level of enthusiasm for the science of sonics is absolutely non-pareil.



BCM 104 Project Studio Microphone

Real Time

It's more than a project - it's your heart, your soul, your sweat, your blood... your life.

Don't trust it to a pale imitation. There's only one way to get truly professional sound on your recordings and that's with a truly professional mic.

Neumann's BCM 104 is the ultimate project studio mic - perfect for any instrument you happen to play or every voice that needs to sing. It's time to get real - get Neumann.



Neumann|USA

www.neumannusa.com

Distributed by Sennheiser

USA: Tel: 860 434 5220 • Fax: 860 434 3148

Canada: Tel: 514 426 3013 • Fax: 514 426 3963 • Latin America Tel: 52 55 5638 1020 • Fax: 52 55 5639 9482



NOW - reduced pricing!

You've probably already heard about the best place to manufacture your disc

So c'mon—give us a call!

You've more than likely already heard—from your fellow musicians, the BBB, and independent reviewers—that Oasis offers the most reliable and innovative CD and DVD manufacturing and marketing services.

So isn't it time for you to give us a call?

We think it is—if you've put your heart and soul into your project. And you want the discs and packaging you send out into the world to truly reflect (or even improve upon) your original vision. And you need help with the crucial task of getting people out there to actually hear your music.

Because if that describes your situation, may we suggest what it calls for?

It calls for Oasis.



web oasisCD.com
tel (888) 296-2747, (540) 987-8810
email info@oasisCD.com



Oasis is the only national disc manufacturing company certified by both The Better Business Bureau and BBBOnline.



FREE: New 64 page Full-Color catalog!

Call us now at (888)296-2747 or visit oasisCD.com/catalog for your copy.

INCLUDED WITH YOUR CD or DVD PROJECT—THE OASIS TOP™ TOOLS OF PROMOTION:

Your Music on an OasisSampler™ Distributed to Radio Nationwide



XM Satellite Radio Airplay for Oasis Clients



Galaris/Oasis CD-ROM with 14,000+ Music Industry Contacts



Distribution for your CD or DVD:

iTunes Music Store
amazon.com™



TOWER.COM

BORDERS.com
Waldenbooks.com

A Full Year of Electronic Press Kit® Service and Exclusive Live Performance Opportunities:



SoundScan®, Music-Career Software, Retail Cases, Barcodes



Squeezing Your Main Squeeze

Dynamics Processing vs. Rock Guitar

Dynamics processing? Been there, done that.

But have you revisited it lately in a guitar context? Dynamics control for vocals or program material is very different compared to guitar. Much of this is because there are many ways to use dynamics processing for guitar (or bass).

The applications in this article are based on the ART Twin Compression System (TCS), because its feature set allows illustrating everything we're going to be covering. However, you'll be able to translate many of the concepts to your own dynamics processor, or even software-based plug-ins.

Let's take a look at the different ways to use dynamics, with examples of suggested settings. But first, a few basics.

THE INTERFACE SPACE

"Stompbox" dynamics processors, while designed specifically for guitar, are more limited than rackmount studio hardware — but the latter have issue levels with guitar. Interfacing involves one of four approaches:

Use the instrument input. If the processor has an "instrument" input, you're golden. Plug the guitar directly into the processor, then run it into the mixer, amp modeler, guitar amp (assuming you can adjust the output level to avoid total overload), or whatever. Look for an input impedance above 100k Ω , and preferably above 220k Ω , to avoid dulling high frequencies and reducing level. But too high an impedance (in the 5-10M Ω range) reaches a point of diminishing returns, because now the input may be too sensitive and prone to noise pickup. The ART unit has a 1M Ω impedance, which is a good compromise setting.

Use a preamp or suitable direct box. Adding a preamp or direct box (assuming it has a suitably high input impedance) before the processor will preserve the guitar signal's fidelity and

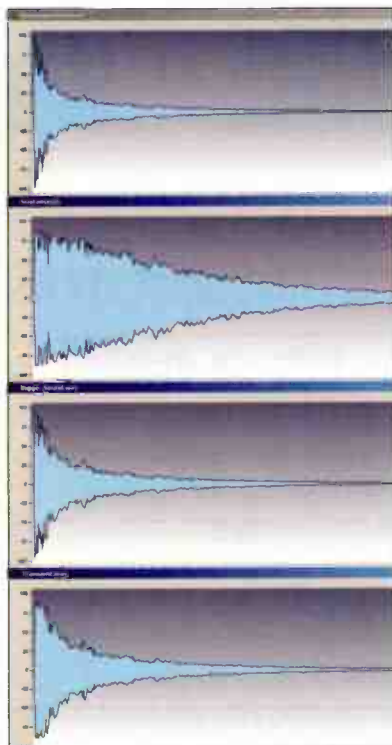


Fig. 1: Examples of the various compression techniques described in the text. The top waveform has no dynamics processing.

allow for best level-matching. If you're driving a guitar amp, you may be able to use the dynamics processor's output control to add some extra overdrive, but don't go overboard.

Insert into your guitar amp's effects loop. If you want to record with your guitar amp but are using a line-level processor, patch it into the guitar amp's effects loop. The loop should be able to provide line levels for the *send* (goes into the processor's input) and *return* (comes from the processor's output).

Insert into your mixer's channel inserts. This will also match levels properly, although you'll still have to

figure out how to interface the guitar with the mixer. The choices are the same as above: If the mixer has an instrument input, great. If not, use a preamp, direct box, etc. between the guitar and mixer.

THE TECHNOLOGY HYPE

Tube vs. solid-state. Optical vs. VCA. Peak vs. RMS detection. Manual vs. automatic attack/decay settings. Dynamics processors inspire endless debates, but the truth is in the ear of the beholder. Nonetheless, there are situations where these characteristics matter, as noted in subsequent sections.

Now that you're set up, consider the "Big Three" most common ways to use dynamics processing (Figure 1). The TCS has a 16-position "voicing" switch that essentially provides presets from which you can tweak the available parameters. But for those using different devices, we'll work from a more "generic" standpoint by referencing control settings to gain reduction indications on the gain reduction meter — a crucial visual feedback element in any dynamics processor.

We'll also assume that the input signal you're feeding into your processor uses the full input range (*i.e.*, the peak levels are just short of distortion).

#1: SUSTAIN

The object of sustain is to bring up low levels as the string decays. In Figure 1, note how the second waveform from the top has a squashed attack, and much higher amplitude decay, compared to the uncompressed waveform.

Gain reduction meter: The meter should show a large amount of gain reduction (*e.g.*, 10-16dB), and the gain should remain fairly reduced as the string decays.

Threshold: Set this to a low value, like -20dB. That

by Craig Anderton



PREMIUM ANALOG MIXING GOES DIGITAL

ONLY ONYX LETS YOU PLUG IN 16 MICS AND STREAM THEM DIRECTLY TO YOUR MAC OR PC.

Mackie's new Onyx series premium analog mixers don't just raise the bar—they completely change the game. That's because, once equipped with the optional FireWire card, Onyx mixers let you plug in up to 16 mics and record them as individual 24-bit/96kHz tracks directly to your Mac or PC with a single FireWire cable... Not to mention being able to mix and EQ a live show in the process.

And what about sound quality? Glad you asked. Built upon our new flagship Onyx mic preamps, warm "British" style 3- and 4-band Perkins EQ, and premium analog circuitry, the Onyx series easily makes the best-sounding analog-to-digital interface at anywhere near its price.

To get you going, we also bundled a fully licensed copy of our acclaimed "no-fuss" Traktion music production software, so you can be up and running on your latest smash-hit in no time at all.

ONYX

Sure, you can opt to spend your cash on dedicated FireWire I/O boxes, outboard studio mic preamps, outboard British-style EQ processing, plus a mixer and recording software. Or you can just visit your local Mackie dealer and check out the much simpler Onyx solution.

Onyx—it's superior sound quality, single-cable FireWire connectivity and a powerful recording application, all packaged into a premium analog mixer.



info@mackie.com 425.487.4333 (Outside U.S.) 800.898.3211 (Toll free within U.S.)

MACKIE®
www.mackie.com

legendary
performance



(4°) SERIES

AT4050 multi-pattern condenser microphone

Meet the studio condenser that captures every nuance. With three switchable polar patterns, the large-diaphragm Audio-Technica AT4050 exhibits a remarkable combination of qualities: high-SPL capability with transparent and airy uppers/mids complemented by rich low-end qualities. Its dual large diaphragms are gold-vaporized and aged for consistent, outstanding performance. A precision-machined, nickel-plated brass acoustic element baffle provides rock-solid element stability and exceptional sensitivity.

Ideal for studio use and live sound productions with vocals, piano, strings, drum overheads, guitar amps, and more.

Audio-Technica's AT4050. For performance that legends are made of.



audio-technica.
always listening.

www.audio-technica.com

THE ART OF RECORDING

will allow compression to remain in effect even at low signal levels.

Ratio: Start with 10:1, and move up from there. This is an instance where large ratios are a good idea.

Attack: Set a short attack time so that if the note is toward the end of its decay and you hit another note, there won't be a big pop or peak at the new note attack. With analog compressors, you'll never get a true 0 attack time — you need digital look-ahead for that. But the transient may be so short that you can clip the transient, yet not notice any significant distortion.

Release: This should be fairly long, like 200ms or so. Watch the gain reduction meter — play a note, then mute it sharply. The gain reduction meter should drift back to 0 gain reduction over about a second, not “snap” back quickly to 0.

Opto vs. VCA: I'd suggest VCA to minimize attack time. However, if there's an opto option, you may like the way it colors the sound.

#2: BIGGER SOUND

In this case you don't want to “hear” the compressor doing its thing, but just give the guitar a level boost while sounding as uncolored as possible. The third waveform down in Figure 1 has the same basic dynamics as the uncompressed signal, but with a little less attack amplitude and a slightly “lifted” decay.

Gain reduction meter: For the most authentic sound, don't reduce gain more than -3 to -6dB. The gain reduction meter motion should also be fairly “tight,” without a lot of drifting.

Threshold: Set to a value around -6dB, which should be enough to have an effect without sounding “compressed.”

Ratio: Lower ratios will sound more transparent. Even ratios below 2:1 (e.g., 1.5:1) can be useful. In any event, it's doubtful you'll want to go much above 4:1.

Attack: As you're not imposing huge amounts of compression, adding a little attack time (around 10-40ms) will allow a more percussive, thus more natural-sounding, attack. If you hear “popping” instead, either reduce the attack time, raise the threshold, reduce the ratio, or try a combination of all three.

Release: Try 50ms or less. You want a smooth, but rapid, drift back to no gain reduction after you stop playing.

Opto vs. VCA: Try using an Opto setting, as this can give a nice “character” to the sound. If you use the TCS, this is also an excellent application for the Tube option as it adds “body” to the sound.

#3: CONTROLLING TRANSIENTS

The classic example is slap bass, where there's a huge initial transient followed by a much lower level. If you set levels to accommodate the transient, the sustain will be too low; set levels for the sustain, and the transient will likely produce a nasty pop. Here's what to do for maximum transient control; pull back from these settings if the effect is too drastic.

In Figure 1, the bottom waveform uses transient control. Note the greatly reduced attack, which allows bringing up the entire waveform's level without clipping. But the decay's shape is essentially the same as the uncompressed signal.

Gain reduction meter: This should snap to the maximum amount of gain reduction, then snap back to 0 fairly rapidly after the transient is over.

Threshold: Set this to a high value, like -3 to -6dB. You want to affect just the initial transient.

Ratio: Use a high ratio — over 10:1 — if the transient is strong and needs taming. Higher ratios will push the gain reduction meter further into the reduced gain zone.

Attack: If possible, set this to zero as you want to clamp the transient as rapidly as possible.

Release: This should be fairly short (20-50ms). The gain reduction meter should return rapidly to 0 gain reduction after the transient is over.

Opto vs. VCA: Definitely VCA, you want the fastest possible attack.

HEY, WHAT ABOUT NOISE?

Many dynamics processors also include dynamic *expansion* (basically the inverse of a compressor, where gain drops off rapidly below a certain level) or noise gating. The TCS has both; however, it also adds a “Shelf” control that weights the noise reduction toward a particular frequency range.

In general, I prefer dynamic expansion for its smooth decay characteristics. However, note that some gates include attack and decay controls, making it easier to simulate the effect of using an expander.

At least with the TCS, the easiest way to adjust the amount of reduction is to hit a string or chord, then wait until the level reaches the lowest desired level. Quickly turn the noise reduction threshold control until the indicator light goes on showing that expansion is active, and you should be pretty close to the right setting.

DOUBLE YOUR PLEASURE

The TCS has one other interesting feature: a "stack" mode that places the Opto and VCA compressors in series. This works well with the "Bigger Sound" function described earlier, as using two compressors set for small amount of compression adds up to a significant amount of compression, but can sound less

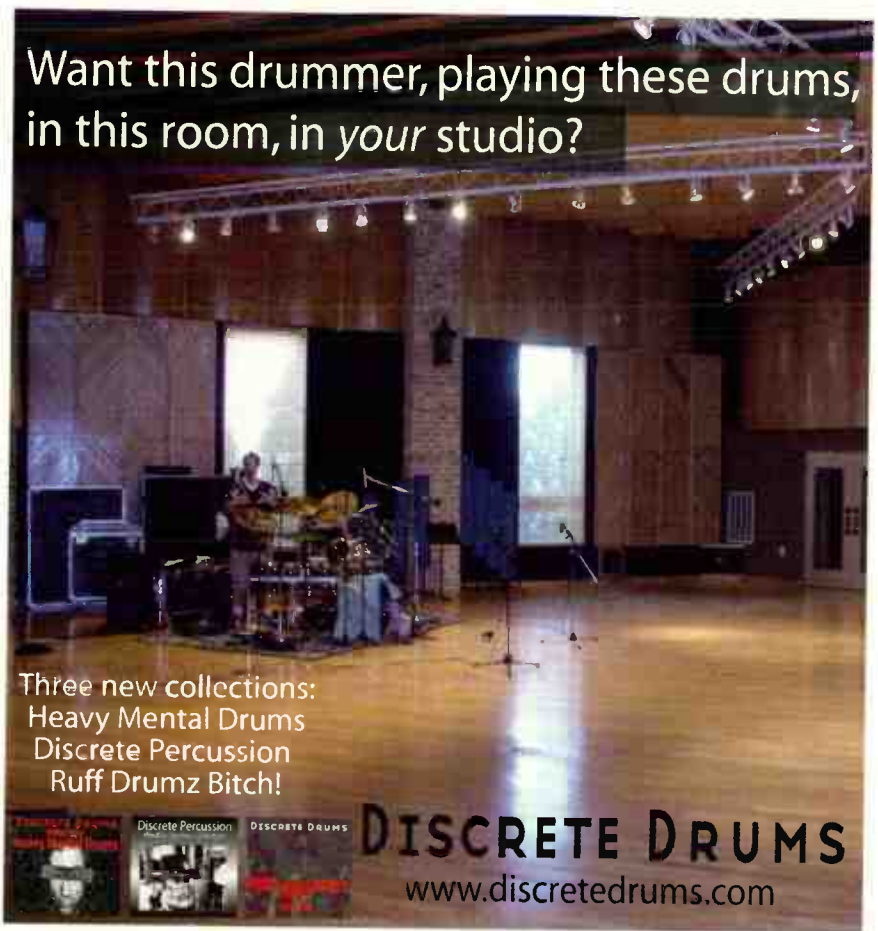
"Stompbox" dynamics processors, while designed specifically for guitar, are more limited than rackmount studio hardware — but the latter have issue levels with guitar.

obvious. The first stage essentially "pre-conditions" the signal so that the second compressor doesn't have to work so hard.

The FMR Audio RNC also uses series compressors, and if you have a stereo compressor that can be set to dual mono operation, you can place the two individual compression channels in series. With plug-ins, you can just insert two in series in a track. The drawback is that unlike the TCS and RNC, where you have to adjust only one set of controls, an *à la carte* approach requires adjusting both sets of compressor controls. While this might seem like an advantage, most of the time you'll set them to the same settings anyway.

And of course, all the above tips are just guidelines. Experiment with your dynamics processor, and you may find yet another way to exploit these perhaps unglamorous, but extremely useful, devices. **EQ**

Want this drummer, playing these drums, in this room, in *your* studio?



Three new collections:
Heavy Mental Drums
Discrete Percussion
Ruff Drumz Bitch!

DISCRETE DRUMS
www.discretedrums.com

Great gear and great tracks...**BUT...**
your mix doesn't sound the same in the car?

Tune Your-Room!

Citywalk Studios • Branson, MO

If you think it's the gear, think again.
Your sound is only as good as the
acoustics in your room!

Visit Auralex.com or call
1-800-95-WEDGE for your
FREE Room Analysis.

After 25 years and over 10,000 studios,
we're the experts at helping you achieve
TOTAL SOUND CONTROL.



by Mitch Gallagher

Native Instruments Guitar Rig

The ultimate guitar tone design center

Type: Guitar modeling software with hardware foot controller

Price: \$499

Contact: Native Instruments,
www.nativeinstruments.com

Platform: Mac and Windows

MINIMUM SYSTEM

REQUIREMENTS

Mac: OS X 10.2.6, G4/733MHz,
512MB RAM, soundcard with two
line inputs and low-latency driver

PC: Windows XP, Pentium 700MHz or
Athlon 1500 XP 1.33GHz, 256MB
RAM, soundcard with two line
inputs and low-latency driver

Formats: Standalone, AudioUnits, VST
2.0, RTAS, DXi

Interfaces: ASIO 2.0, Core MIDI, Core
Audio, DirectSound, MME

MODELS

Amps: 4

Speaker cabinets: 14

Microphones: 5

Microphone positions: 5

Distortion pedals: 7

Mod effects: 6

Filter effects: 5

Volume/dynamics effects: 4

Delay/reverb/pitch/other effects: 6

Version reviewed: 1.2

**GUITAR RIG FEATURES AN EASY
DRAG-AND-DROP GRAPHIC USER
INTERFACE — COOL NEW SOUNDS?
OH YEAH, IN MINUTES!**



Rock on! Whether you're an axe-master yourself, or you're looking for the ultimate guitar amp/effects modeler for your studio, Native Instruments' got exactly what you need: Guitar Rig. Combining amplifier, speaker cabinet, microphone, and effects modeling software with the Rig Kontrol hardware foot controller, Guitar Rig is an easy, great-sounding product capable of convincing guitar tones. Come, closer. Closer. Closer...

ZOOM IN

Check out the specs sidebar to the left for an accounting of the number of models included in Guitar Rig — everything starts with the amplifier. Four are included; Plexi, Twang Reverb, Gratifier, and, new in v1.2, AC Box — the amps these models are based on are pretty obvious, and Native Instruments has done a good job recreating the sounds and features of the

originals. The attention to detail is wonderful, and there are even extended parameters:

- Power supply at 50 or 60Hz
- Variac for increasing or decreasing virtual AC voltage
- Sag, which simulates what happens to a power supply when you hit the amp hard
- Response, which changes how much power is stored in the virtual power supply capacitors
- Bias, which adjusts the virtual tubes' grid bias

If you really want to tweak, you can dig way into these parameters and totally configure the sound and *feel* of the model.

A wide range of cabinets are included, from 1x12 open backs to several types of 4x12 boxes; plus you can control the size of the virtual cabinet, so your 4x12 can be tiny or *huge*. You can choose what type of mic is used on the cabinet, where it's positioned, and how far away it is. Up to eight cabinets/mics can be used on one preset; each can be individually panned and EQed.

A variety of effects models are provided, from choruses to distortions to delays to wahs; you can split the signal at any point for parallel effects processing or for stereo effects.

THERE'S MORE

Guitar Rig includes a variety of other features, such as built-in recorders (one before the modeling chain for the dry signal, the other after for the processed signal) that can either record and play your

guitar licks, or load and play drum loops, a tuner (which can operate in strobe or "cent" modes), and a metronome with tap tempo.

There are powerful patch management and search/organization tools provided, which make it really easy to find the preset you want.

RIG CONTROL

Taken just as software, Guitar Rig is a powerful tool. But add in the included Rig Kontrol foot controller, and the software can suddenly be used much more effectively by a guitar player to create a real performance. Rig Kontrol has four footswitches and a foot pedal, plus it has inputs and level controls for routing your guitar's output into a soundcard or audio interface. The footswitches can be used for incrementing presets, turning effects on and off, and switching other parameters. The expression pedal can be assigned to control volume, to work a wah effect, or a variety of other parameters. You can calibrate the "throw" of the pedal to work exactly how you want.

IN USE

Using Guitar Rig is a breeze, whether you are running it standalone or as a plug-in within your favorite DAW software. You can either call up presets, or create your own sounds, which is as difficult as dragging and dropping the components you want into the preset. Within minutes I was putting together a bank of useful sounds tailored to exactly the tones I like to use for various types of music: rock, metal, country, jazz, you name

it. Whether you're trying to duplicate an existing tone, or to create something that can't exist in nature — or that would be extremely difficult to create in the real world, such as monstrous cabinets and combinations of cabinets, parallel processed signals with multiple splits, amplifiers processing amplifiers, and effects processing speaker cabinets. The number of possible combinations of amps/cabinets/processing are staggering; if you're a tweaker, get ready to put in lots of fun-filled hours in search of the ultimate tone.

But it all comes down to the sound and feel, and Guitar Rig has both in spades. I didn't feel as if I was playing through a computer; rather, I plugged in my guitar and created great tones that I could put together quickly and really *play*. The whole process is easy and transparent — and fun. And did I mention that Guitar Rig sounds great?

And, of course, Guitar Rig isn't limited to just processing guitars; I had great results using it on keyboards, drums — you can run any signal you want through it. It's

especially useful for adding distortion — either subtle or not so subtle to drums, vocals, or whatever.

THE LONG & SHORT OF IT

Guitar Rig has what it takes. Whether I was creating new sounds, dialing in the ultimate tone, or simply jamming through the multitudinous presets, I had a blast with this product. The sounds are right, the feel is right — assuming your computer is powerful enough to deliver low latency — and Rig Kontrol lets your feet get in on the action.

There's really only one problem: There are so many sonic combinations and so much flexibility that if you're even mildly interested in creating new sounds, you'll find yourself spending *hours* experimenting — I did.

I'm not giving up my Marshall, Boogie, or other tube amps, nor have I stopped lusting after a stellar AC30 to add to my collection; there's still something visceral about playing a real amp loaded with glowing glass bottles through a thumping cabinet. But I expect that Guitar Rig will be

my go-to tool for many of my electric guitar recording tasks. It's just so easy and fast to dial up a great sound, and in a mix, I can't imagine anyone could tell whether you had used Guitar Rig or the "real thing."

Guitar Rig has definitely earned its place in my guitar recording toolbox. If you're looking for a computer-based guitar amp/effects modeler, you owe it to yourself to give it a serious look. I think you're going to be surprised just how real these models can sound and feel. Guitar Rig rocks? Why, yes it does. **EQ**

Strengths:

- Realistic sounds
- Capable of near-zero latency
- Rig Kontrol hardware controller
- Easy user interface
- Over-the-top flexibility
- Powerful preset management/search tools

Limitations:

- Low-latency response requires lots of CPU muscle

SUPERIOR POWER CONDITIONING GIVES YOU SUPERIOR EQUIPMENT PERFORMANCE

LiFT

NOTHING DELIVERS CLEANER AC POWER

Linear Filtering Technology (LiFT) reduces AC line noise, providing clean power and ensuring optimum performance.



SMP+

NOTHING PROTECTS EQUIPMENT BETTER

Series mode protection plus (SMP+) provides the highest level of power protection with an unlimited joule rating and features extreme voltage shutdown (E.V.S.) with the lowest clamping voltage available (188V).



PL-8 Pro II 20 Amp Power Conditioner with lights



P-8 Pro II 20 Amp Power Conditioner



PF-Pro R Power Conditioner with Power Factor correction

Furman Sound, Inc. • www.FurmanSound.com

FURMAN
PURIFY YOUR POWER

by Craig Anderton

Reason 3.0

More evidence of intelligent life on earth

Type: Virtual studio software
Platform: Windows XP/2K, Mac OS X
Price: \$499. Upgrades: \$129 from previous full version, \$399 from Reason Adapted
Contact: www.propellerheads.se

Minimum system requirements:
 G3/PIII, 256MB RAM, 2GB free hard disk space
Copy protection: License number
Version reviewed: 3.0
Driver support: ASIO, CoreAudio, MME, DirectX
ReWire mode: Client
Audio export formats: WAV, AIFF
Sound library: Orchestral and Factory sound bank CDs

When Reason first came out, people thought it was brilliant — and rightfully so. But now it's been around a few years, some competitors have sprung up, we've all had our expectations raised, and as a result . . .

It's still brilliant. Just more so.

Reason 1.0 was one of those programs that got it right the first time. Reason 2.0 and 2.5 didn't do any radical makeovers, because frankly, they weren't needed. Updates included a nice sampler, some more effects, a groovy grantable synth, improved routing, and a detachable sequencer window, all at reasonable upgrade prices. What you *didn't* get: Bug fixes and crashes. Reason's reliability is legendary.

Admittedly, you do have to subscribe to the "Reason Way of Life" to dig the program. That means no recording digital audio, no inserting plug-ins, no adding additional virtual instruments: What you see is what you get, and by the way, *all*

you'll get. Like an electronic music version of the Sims, Reason creates its own world (which is probably a major reason why it works so reliably and efficiently). Reason truly is a virtual studio — instruments, processors, mixers, and audio interface.

But is it really so limited? Not exactly, because let's remember that Propellerheads is the company behind the ReWire protocol. You can rewire Reason into Live, Sonar, Logic, Cubase, Acid, Digital Performer, Adobe Audition, Pro Tools . . . whatever adds the capabilities you want that Reason doesn't have.

Which brings us to Version 3.0. As with previous updates, Reason's core remains intact — which just proves again that yes, they did get things right the first time. But they've added three killer features (and a bunch of little extras) that I predict will not only have Reasoners eager to upgrade, but also maintain the program's currency.

THE BROWSER

Everyone's talking about the Combinator and the MClass effects. We'll get to those, but trust me, *this* is 3.0's killer feature (Figure 1). Now you can audition patches, drum kits, samples — even effects presets — in context, while Reason is playing.

Got a drum pattern going? Forget the find, load, listen, find, load routine to audition kits. Just go to the browser and click. Don't like the sound? Click again. Like it? Click OK. Done.

This is the single biggest improvement for tapping Reason's enormous potential. Not only does it help you find

sounds you want, it also lets you know when to give up. For example, I was looking for a sorta Miles Davis trumpet sample for the NN-Xt. I typed "Trumpet" into search, didn't like what I heard, and moved on. How about sax instead? Within seconds, I found a Wayne Shorter-type sound that fit perfectly. Mission accomplished.

The browser is not limited to the sounds that ship with Reason, and for the final touch, you can create Favorites lists. It's almost like hiring an assistant to take care of your sounds.

COMBINATOR 3: RISE OF THE MACHINES

You like a particular Reason sound, so you load in a Matrix Pattern Sequencer feeding your favorite SubTractor bass patch, followed by a spacey delay and a little distortion. Fine, but then you create another Reason project and you want that same signature sound, so you start all over again.

Those days are now officially gone, because you can combine any number of Reason machines — synths, drums, signal processors, splitters, you name it — into a Combinator (Figure 2), which is essentially a Reason rack within a Reason rack. You can then save the combi for later recall.

It has no particular limitations: You'll find the same patch cord jacks on the back, the ability to fold instruments to take up less space, ins and outs for connecting with the rest of the world, and internal ins and outs for combi devices. (They call the display that shows splits and such a "Touch Sensitive Display Unit," so I guess they couldn't resist

FIG. 1: A NEW BROWSER MAY NOT SEEM GLAMOROUS, BUT IT TURBOCHARGES THE PROCESS OF AUDITIONING AND SELECTING BOTH SOUNDS AND PATCHES.



Thinking TAPCO? Think Sweetwater.



S•5 Active
Studio Monitor
~~\$349.97~~ price
MSRP \$ 499.00

"Clear and focused."

– EQ

"Impressive evenness."

– Electronic Musician

SW•10
Active
Subwoofer

NEW!
Call for details

"Beautifully designed."

– Sound on Sound



S•8 Active
Studio Monitor
~~\$499.00~~ price
MSRP \$ 749.00

Judging from recent magazine reviews, if you're thinking about buying a new set of studio monitors, you should be thinking about the TAPCO S-Series. With their genuine Mackie-designed pedigree and top-notch components, the TAPCO S•5 and S•8 nearfield monitors and new SW•10 subwoofer are being praised as the best in their class. Need a second opinion? Give your Sweetwater sales engineers a call and ask 'em what they think. That should say it all.

TAPCO
by **MACKIE**

Sweetwater
music technology direct

1 800-222-4700 • www.sweetwater.com • 5335 Bass Road, Fort Wayne, IN 46808

Reason 3.0

throwing a bit of humor into the mix.)

The obvious use is splits and layers for instruments, although you could also create multieffects chains. Or splits and layers with multieffects — whatever. Modulation routing adds another level of coolness, as there are four assignable knobs and buttons that can control any number of parameters in the combi. For example, if you have several instruments, one knob could control the filter cutoff and level on one, the filter resonance on another, the decay time on a third . . . you get the idea. It's really convenient to be able to call up these kinds of submodules.

MASTERING . . . SWEET

There are four "mastering class effects" (Equalizer, Stereo Imager, Compressor, and Maximizer). While I don't think WAVES is losing any sleep over these, they fill in one of Reason's few gaps: the lack of good equalization and dynamics control. And of course, bowing to popular demand from the new breed of Listeners



FIG. 2: IT'S A RACK WITHIN A RACK, A GREAT LIVE PERFORMANCE TOOL, AND A WAY TO SAVE YOUR "GREATEST HITS" CONFIGURATIONS: MEET THE COMBINATOR.

Without Ears, there's a maximizing device so that people can slam levels and not complain any more about how Reason sounds "wimpy." (No, it didn't sound wimpy; it just had a thing called "dynamic range.")

The effects are actually quite nice, and I found the Stereo Imager surprisingly effective. The Maximizer didn't respond well to being pushed really hard, but this is probably a good thing because then people won't be tempted to do it. In any event, you're no longer stuck with

patching the old COMP-01 module in the mixer's master outs to get a little bit of a dynamic boost. Oh, and as if to prove the value of the Combinator, all four effects are available in a "Mastering Suite" combi.

CONTROL SURFACE SUPPORT

Reason just begs to be fed with MIDI continuous controllers from hardware interfaces. It's always been very good about that, and it was fairly easy to assign controllers to parameters. But Reason 3 takes the concept a step further by offering what appears to be a plug-in architecture for control surface support. It already supports surfaces from Alesis, Behringer, Doepfer, Edirol, Evolution, Kenton, Keyfax, Korg, Mackie, M-Audio, Novation, and Peavey; more are claimed to be on the way (hey, how about the Radikal Technologies SAC 2.2?).

How does it work in practice? I hooked up an M-Audio Oxygen8, whereupon

WORLD'S #1 USB MIXERS = Helix Boards

Get a quality front end for your computer! 12-17 inputs, 16 digital effects, 3-band EQ, high volume headphone output and much more!

USB Direct Connectivity to your audio and recording software

Mini Stereo I/O for digital media

44.1 kHz S/PDIF digital out



5411 Johns Road, #605 Tampa, FL 33634 USA T. 813 890 8872

PHONIC
WWW.PHONIC.COM

the program wanted to know if it was an "old" one or a "new" one. I assumed old, and lo and behold, whenever I changed the MIDI focus, its knobs controlled something of interest in that particular instrument. And, there are several pages of controller mappings for each device, so even a basic controller can map just about all parameters of interest. Furthermore, you can hook up multiple control surfaces, and there's support for some surfaces with MIDI feedback . . . yes, motorized faders are now a possibility. The architecture also supports controller display feedback, so you can see the names of the parameters being tweaked on compatible controllers (e.g., Korg Kontrol49, Mackie Control, etc.).

Those are the big features, but you'll also find new sequencer goodies (mute, solo, and the ability to record automation on multiple tracks), dithering for audio exports, an improved (but also backward compatible) sound bank . . . and it sure seems samples load a lot faster. Granted, with more instruments and options the rack paradigm is getting a little unwieldy, but much less so than dealing with the hardware equivalent.

THE WISH LIST

So what's left to do? You can open multiple songs at once, and stop and play independently, but there's no way to switch seamlessly between them except by using a combination of a remote command and mouse click to start one sequence while stopping another. It works, but sure isn't like beat matching. I'm still not thrilled with some of the Orkester CD samples, although the new Factory Sound Bank is steps ahead of the original one. And while the NN-XT does velocity crossfading, it can't do positional crossfading, where a sample fades out as you play higher or lower in pitch while a different sample fades in.

And I sure wish Reason, which is a laptop jockey's delight, would support using the QWERTY keyboard for triggering keyboard notes. You can find accessories to do that on their website, but why not just build it in?

Admittedly, that's a short wish list. Then again, it's a brilliant program. I'm still amazed by the ease and fluidity with which you can make music on Reason. When it comes to virtual studios, Reason

remains at the top of the heap — and the program to beat. **EQ**

Strengths:

- Highly cost-effective
- Kind to your computer — efficient and reliable
- Wide selection of instruments and processors
- Full-featured sequencer
- Great new browser and remote control functionality

- Combinator is a great feature
- V3 is much better suited to live performance

Limitations:

- No "playlist"-style song chaining
- No positional sample crossfade in NN-XT and NN-19 samplers

Look and sound like a million bucks. Pay only \$990.

DISC MAKERS® CD AND DVD MANUFACTURING MADE EASY



1,000 CDs in jackets for only \$990.

Package includes our award-winning, three-color on-disc printing, and full-color jackets with high-gloss UV coating.

You'll be thrilled with how incredible your CDs look and sound when you choose Disc Makers. You get 1,000 CDs in full-color jackets for the remarkable price of only \$990. And you get them super quick. Complete your package by adding our affordable award-winning graphic design, mastering services, and promotional resources such as posters and postcards.



GET OUR FREE FACTORY-DIRECT CATALOG
1-866-294-8829 • www.discmakers.com/eq

by Mitch Gallagher

TASCAM GigaStudio 3

GigaStudio: 8 miles high . . . and counting

Type: Windows-based software sampler

Price: GigaStudio 3 Orchestra, \$599; GigaStudio 3 Ensemble, \$349; GigaStudio 3 Solo, \$199. Upgrade and competitive upgrade pricing available.

Contact: TASCAM, www.tascamgiga.com

Platform: Windows

Formats: Standalone

Polyphony: unlimited; depends on computer system

Plug-in hosting: NFX (Giga format), VST

Sample Resolution: up to 24-bit/96kHz

Mixer: 128 channels with 4-band EQ and compression per channel, 32 fader groups, 8 aux sends/8 stereo aux returns, 32 "external" input channels, 64 output channels

MINIMUM SYS REQS

Orchestra: Windows XP with Service Pack 1, Pentium 4 1.7GHz or AMD 2100 XP, 512MB RAM, GSIF-compatible soundcard or ReWire-compatible host, SSE-compatible processor required for GigaPulse

Ensemble or Solo: Windows XP with Service Pack 1, Pentium III 1GHz or AMD 1500 XP, 512MB RAM, GSIF-compatible soundcard or ReWire-compatible host, SSE-compatible processor required for GigaPulse

Once upon a time, I relied on hardware samplers for all my sampling and sample playback needs — I was perfectly happy with my Akai S1000 and Kurzweil K2000.

Software samplers just weren't reliable enough for serious production work and they offered far less performance than you could get with a dedicated hardware sampler. But times have changed, and software samplers have come a *long way*.

The first release of GigaSampler struck a major blow for software sampler acceptance by offering something hardware units really couldn't provide: the ability to stream samples from hard drive rather than strictly from RAM. This innovative concept allowed sound designers to work with extremely long samples, which provided much more realistic results than short looped samples. GigaSampler enjoyed

reign as the only real software sampler option for several years.

Now, of course, there are several very powerful competing software samplers on the market. But GigaSampler — now known as "GigaStudio," certainly hasn't rested on its laurels. Version 3, on review here, offers a ton of powerful features — the capabilities have surpassed what most of us will ever use, with one important caveat: Everything depends on your computer. The new version features unlimited polyphony. So if you have a stout-hearted, heavily muscled PC to power GigaStudio, you'll get more notes of polyphony than you can probably use — although voices can be used up very quickly if you have long release times and if you're stacking instruments together, so you can never have too much polyphony on tap. As a benchmark, I ran GigaStudio 3

on a Sweetwater Creation Station CSRack; a 3.2GHz Pentium 4 loaded with 2GB of RAM and dual SATA hard drives. That machine had no problem cranking out 420 voices of 24-bit polyphony; pretty darn amazing.

There's another aspect of GigaStudio 3 that will tax your long-suffering CPU: GigaPulse, the new convolution reverb/ambience/resonance simulator (see sidebar). Suffice it to say, GigaStudio will run on a pretty basic machine. But if you load it up on a firebreathing computer, you'll be amazed at what you can do.

WHAT'S NEW

There are three versions of GigaStudio 3: Orchestra, Ensemble, and Solo. With Orchestra, you get unlimited polyphony, eight MIDI ports, 17 gigs of sounds including custom Vienna Symphony sounds and



Power Tools for power players

One performance. Get it right.
Pros demand the best from the tools they use.
Power Tools... by Radial.



Radial JD7 Injector - suggested list \$849 US

Guitar freaks rejoice! Drive up to 7 amplifiers at the same time without changing the original tone of the guitar and do it without buzz or hum caused by ground loops. Record a dry track with the built-in DI and send the signal back to the JD7 and re-amplify it to 7 amps and effect pedals. Addictive.

Radial J48 Active DI - suggested list \$199 US

For great sound without choking, look no further than the Radial J48. Features a 48V phantom supplied active drive circuit with a unique DC-to-DC transformer isolated switching power supply to provide amazing headroom while eliminating hum and buzz caused ground loops. Radial.

Radial JDI Passive DI - suggested list \$199 US

Jensen Transformer equipped, the Radial JDI has become the standard passive DI in the business. Exceptional noise rejection eliminates troublesome ground loops and virtually zero phase distortion at any level makes the JDI a must have for studio and stage. Available in single, stereo or 6-pack. Magic.

Radial X-Amp Re-Amplifier - suggested list \$199 US

Ever wish you could go back and change the sound of a pre-recorded guitar track? Now you can with X-Amp. When tracking, record a spare dry track and play it back through the X-amp after the guitarist has gone home. Two outputs lets you drive amps and pedals to create thick new textures. X-plosive.

Radial JPC Stereo DI - suggested list \$199 US

Designed specifically for PC sound cards, DVD players and all those cool consumer devices that cause nothing but havoc, the JPC is 100% transformer isolated to eliminate nasty ground loops and equipped with a 48V active drive circuit for long cables. Easy to use. Great sounding. Indispensable.

Radial JDV Super DI - suggested list \$449 US

There is no finer DI than the Radial JDV. 100% discreet Class-A topology with a feed forward design that sounds so true, it'll make the hair on your arms twitch. Drag™ Control pick-up load correction, A or B inputs, 4 instrument amp outputs, hi-lo filters and amazing headroom combine for the most powerful DI ever made. Unbeatable.

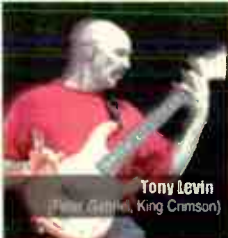
Radial... The world's finest direct boxes



www.radialeng.com

1638 Kebet Way, Port Coquitlam BC V3C 5W9 tel: 604-942-1001 email: info@radialeng.com

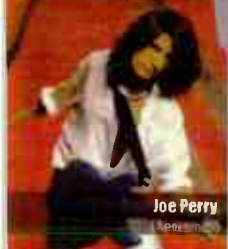
World Radio History



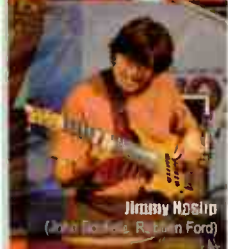
Tony Levin
(Peter Dinklage, King Crimson)



Billy Sheehan
(W.A.S.P., Strain V)



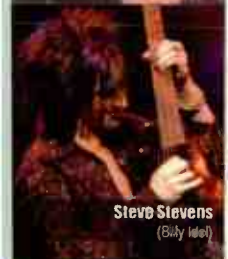
Joe Perry
(Aerosmith)



Jimmy Heston
(Linkin Park, Robbin Ford)



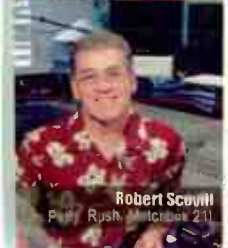
Mark Howard
(Bob Dylan, REO, U2)



Steve Stevens
(Billy Idol)



Chuck Rainey
(The Beatles, Bobbie Goussard)



Robert Scovill
(Rush, Matchbox 21)

ROYER R-121



R-121

THE ONE THAT STARTED IT ALL.

"An incredible ribbon mic that records electric guitar bigger than life."

Pro Audio Review

"Upon first listen... I was left momentarily breathless."
Electric Musician

www.royerlabs.com
818.760.8472 · Burbank, CA.

TASCAM GigaStudio 3

Finger On The Pulse

One of the most powerful components in the new version of GigaStudio is GigaPulse, a convolution processor that can create convincing reverbs, instrument resonance, and mic modeling. Convolution processing has become increasingly common because of the excellent results it can achieve — although often at the expense of a heavy CPU hit. The idea is to record the sound of the hall, mic, or resonance that you want. The recording — called an "impulse" — is then analyzed, and the results can be applied to another sound to make it seem as if that sound were recorded in the same space, with the same mic, or with resonance.

GigaStudio comes with a variety of impulses for reverbs, microphones, and so on, as well as with sampled piano resonance that can be applied to sampled pianos for more realism, or to other sounds as a special effect. GigaPulse supports up to 7-channel surround processing.



THE GIGAPULSE CONVOLUTION PROCESSOR THAT COMES WITH GIGASTUDIO 3 CAN PROVIDE AMBIENCE AND REVERB, MICROPHONE MODELING, AND INSTRUMENT RESONANCE SIMULATION.

two versions of GigaPiano II as well as MegaPiano II, and GigaPulse Pro. Ensemble is the same, but with 160 voices of polyphony, four MIDI ports, 11 gigs of sounds, and GigaPulse SP. Solo has 96 voices of polyphony, two MIDI ports, three gigs of sounds, and GigaPulse SP.

There are a lot of new features in Version 3. Two we've already mentioned: unlimited polyphony and GigaPulse. (See sidebar for more on GigaPulse.) The GigaStudio mixer has been greatly expanded. It can now handle 128 channels, 32 fader groups, eight aux sends/eight stereo aux returns, 32 "external" input channels, and 64 output channels. Each channel now has a 4-band EQ and built-in dynamics processing.

Also new in GigaStudio 3 is QuickEdit, which gives you instant access to instrument parameters. There are four main aspects to QuickEdit: Articulation, Dimensions, Wave, and Keyboard. Articulation contains "synthesis"-type parameters such as envelopes, filters, and LFOs. Dimensions provides access to MIDI controller programming such as cross-switching. Wave lets you click and drag envelope, filter, and LFO curves right on the sample waveform. Keyboard lets you view different properties of the loaded instrument.

You can now Stack instruments — load as many as you want on a single MIDI channel. When you stack instruments, you retain control over each instrument's parameters, and each can be sent to its own mixer channel. Or you can layer so that the entire stack feeds the same mixer channel.

ReWire and VST plug-in support make GigaStudio 3 much more compatible with the outside world. There's more powerful "Capture to Wave," which can now capture up to 64 audio streams simultaneously. And there's even more, such as GSIF 2 kernel-level MIDI and support for 32 channels of audio input and 64 channels of audio output. Plus, samples as large as 512GB → 1/2-terabyte — are now supported . . . big enough for most applications.

LIBRARIES

Depending on which version of GigaStudio 3 you purchase, you're supplied with varying quantities of samples to get you started. "Orchestra" comes with 17 gigabytes of samples, including three large pianos, custom Vienna Symphony Orchestra instruments, and usable demos drawn from a variety of Giga libraries from sound designers such as Larry Seyers, SampleTekk, Sonic Implants, Scarbee, and many others. ▶

Hear the Difference

Version 1.6 Software now available! Includes E-MU Power FX hardware-accelerated VST effects

All audio interfaces are not created equal. Your microphones, outboard gear and software all affect your sound, but you ultimately depend on your audio interface to translate your music between the analog and digital realms with the greatest accuracy possible. E-MU's Digital Audio Systems have caused shockwaves in the music industry by offering converters and audio performance previously only found in the world's most expensive systems (the same converters as the premium ProTools HD192 Interface costing thousands of dollars) – at a fraction of the cost.

And that's just the half of it. E-MU's Digital Audio Systems also provide you with hardware-accelerated VST plug-ins (over 600 presets) and zero-latency monitoring for spot-on timing. Best of all, E-MU's Digital Audio Systems work with all of your favorite audio and sequencing programs from Steinberg, Cakewalk, and more. Hear for yourself why E-MU's Digital Audio Systems have won accolades from customers and press around the world.

The difference is clear.

192 kHz Drivers
free download now available at
www.emu.com



\$499⁹⁹*



\$399⁹⁹*



\$199⁹⁹*



\$99⁹⁹*



*Estimated Street Price

©2004 E-MU is a registered trademark of E-MU Systems, Inc. in the US and other countries. All other brand names are the property of their respective owners.

www.emu.com

Toll-free
877.742.6084

BiCoastal Music
Ossining, NY



R
B
D
G

RUSS BERGER DESIGN GROUP
RBDG.COM 4006 BELT LINE SUITE 160 ADDISON, TX 75001 972.661.5222

Become A Better Producer Online At Berklee | *music.com* extension school



A lot of the music I've written in the Berkleemusic courses have contributed to the songs on the next Train record. The online courses really pumped up my abilities during the writing process.

Scott Underwood,
Berkleemusic student, Grammy winner, and
drummer/composer in Train and Foodpilot (www.foodpilot.net)

Scott Underwood's Online Course Curriculum



Study online with like-minded musicians and the faculty of Berklee College of Music. Over 75 courses and college credit certificate programs are enrolling now.

Learn More: Berkleemusic.com | 1.866.BERKLEE

TASCAM GigaStudio 3



FOR THOSE WISHING FOR A WAY TO QUICKLY GAIN ACCESS TO INSTRUMENT PARAMETERS, GIGASTUDIO 3 OFFERS QUICKEDIT. SIMPLY CLICK THE "Q" BESIDE THE INSTRUMENT AND THE QUICKEDIT WINDOW OPENS UP, ALLOWING YOU TO TWEAK SETTINGS TO YOUR HEART'S CONTENT.

THE LAST WORD

GigaStudio 3 performed flawlessly for me. It was completely stable, and provided all the horsepower I needed — although I could see needing all that polyphony for stacking instruments, and so on. Remember you're going to need a powerful computer with fast hard drives to get the most from it.

Star among the new features, GigaPulse is a powerful tool that can add an even greater degree of realism to your sounds. The reverb impulses sound great, and being able to apply mic models and resonance is a great bonus. And QuickEdit makes tweaking instruments into exactly the shape you need much faster and easier; the parameters required are all right there, close at hand. Very nice.

All in all, GigaStudio 3 is a worthy upgrade to an already-powerful studio tool. If you're already a GigaStudio user, you'll definitely want to upgrade. If you're looking for a new software sampler, GigaStudio offers a lot of power in an easy-to-use package. GigaStudio 3 is a mature, solid program. Definitely a winner for TASCAM. **EQ**

Strengths:

- Unlimited polyphony (as much as your computer can deliver)
- GigaPulse
- QuickEdit control
- ReWire support
- Great sound quality

Limitations:

- Windows XP-only
- Power-hungry

INTEGRATED

Pro Audio Solutions



**Desktop Audio • Live Sound/PA • Pro Recording
• Broadcast/ENG • Electronic Field Production**

420 Ninth Ave., NYC 10001
www.bhproaudio.com

800-947-5518
We Ship Worldwide



by Mitch Gallagher

Discrete Drums

Discrete Percussion

The Eric Darken Collection throws serious spice into both your life and your loop library with its found sound extravaganza

Type: Multitrack percussion loop library

Price: \$129

Contact: Discrete Drums,
www.discretedrums.com

Formats: WAV files. Also available in Boss BR-1180 CD and BR-1600 CD and Roland CDX-1 formats.

Contents: 40 loops, 890 tracks, 102 instruments, and 497 samples

Most musicians and composers who work with loops are always looking for the next thing — something *new* to add spice and variety to their loop library. And if it's new and spicy you're after, you should check out Discrete Drums *Discrete Percussion — The Eric Darken Collection*. This 800MB collection includes 40 different loops in multitrack format. The array of instruments used to create these loops is vast — Darken, one of Nashville's first-call percussionists, has brought together and used 102 different instruments. These range from drum machines to computers to "traditional" percussion instruments such as log drum, snare drum, congas, and so on. Then there's the fun stuff: egg cartons, aluminum bowls, can shakers, copper bongos, briefcases, Coke bottle shakers, laundry baskets, curtain rods, and many others — there's even a toilet seat and toilet lid in there. (In the aptly titled "Throne Room" loop.) If Darken could hit, smack, shake,

or rub it, it's probably included in these tracks.

Just as the instruments aren't limited to the traditional, nor are the rhythms "ordinary." While there's an ethnic feel to many of them by nature of the instruments used, the rhythms often include drum machine or computer-generated rhythms, but these loops aren't machine-like in the least; the wide variety of acoustic sounds keep things sounding natural. The result is a collection of loops that sound fresh and that have a lot of life in them.

The recording quality is, as is usual with Discrete Drums collections, stellar. As a nice bonus for this collection, Live Sets are provided, allowing you to open each loop in Ableton's Live for immediate gratification — a free demo version of Live is included for both Mac and PC.

The beauty of all of Discrete Drums' loop collections is that they're multitrack, so you can mix, pan, and process the individual instruments however you like. The files are in WAV format at 16-bit/44.1kHz resolution; it

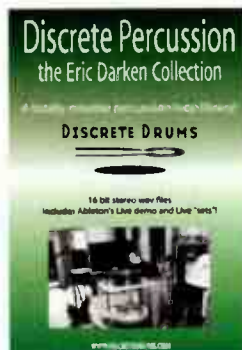
would be nice to have 24-bit versions as well. A disc of stereo mixes is also provided for easy referencing. Dry mixes, mixes with delay and reverb, dry mix with drum machine, and full mixes with drum machine and effects are included. Documentation is limited to a list of the files with tempos.

A plus: There's often a big problem with working with loops: There's no easy way to end. Darken and Discrete Drums addressed this by providing an "ending" loop for each track.

Almost 500 one-shot samples of the instruments are included if you want to expand on the loops or create your own sampled instruments. Since you may be hard-pressed to find some of these "instruments" anywhere else, this is a nice resource.

For a taste of what to expect, check out the demo at www.discretedrums.com. At \$129 list, *Discrete Percussion* offers a good value. If you're after unique sounds and rhythms, percussion ace Eric Darken and Discrete Drums have provided them here. Fun stuff. **EQ**

THE ERIC DARKEN COLLECTION INCLUDES A LIVE SET FOR ABLETON LIVE FOR EACH TRACK. A DEMO VERSION OF LIVE IS INCLUDED TO GET YOU STARTED.



Strengths:

- Great sound quality
- Live sets
- Unusual instrument selection
- Work well over a variety of tempos
- Endings are provided
- Good value

Limitations:

- 16-bit, 44.1kHz resolution
- Limited documentation



REASON

3.0

It has arrived.

Reason 3.0 is here. With one-step loading of complex, customizable instruments and effect setups, a new expanded soundbank, instant integration with hardware control surfaces, a new intuitive file browser and a set of class A mastering devices, this upgrade is extra loud, extra large and extra live-friendly.



More Reason 3.0 info at:
www.propellerheads.se

New in Reason 3.0:

The Combinator

The Combinator lets you create and save combinations of multiple Reason devices, allowing you to load up huge chains of instruments and effects in one single click.

Create instruments splits and layers. Build intricate instrument and effect combinations. Create complex routings with CV control over any parameter. Then save it all as an instantly loadable, playable Combinator patch. Only with the Combinator. Only in Reason 3.0.

MClass Mastering Suite

MClass – a suite of expensive sounding, professional mastering tools – adds punch, sheen, width and volume to your mixes. The MClass package includes:

- **MClass Equalizer** – a parametric mastering EQ for surgically precise frequency adjustments
- **MClass Stereo Imager** – for fully controlling the stereo width of your mix
- **MClass Compressor** – gives your tracks bite and definition
- **MClass Maximizer** – a high-quality loudness maximizer designed to make your Reason tracks sound as loud as you intended them to.

■ **Remote** – Thanks to the Remote technology, Reason now integrates even more seamlessly with external MIDI controllers, with full support for motorized faders and control surface displays – right out of the box, no configuration needed. ■ **The Reason 3.0 Sound Bank** – the new sound bank adds a huge selection of multi-sampled instruments as well as fresh synth patches, loops, samples, and combinator patches to Reason's already massive library. ■ **The Reason 3.0 Browser** – surf through Reason's massive soundbank in new intuitive ways; easily locate, audition and organize sounds and patches from all over the library. ■ **Line Mixer 6:2** – 6-channel stereo line mixer for easy sub-mixing. Use with the Combinator or insert anywhere in Reason. ■ **Record automation on multiple tracks.** ■ **Warp speed sample loading.**

Ready to upgrade?

If you already own a previous version of Reason, go to www.propellerheads.se/get3 for more info on how to get this massive upgrade at a ridiculously low price.

Nady RSM-2

by Mitch Gallagher

Price: \$249.95

Contact: Nady, www.nady.com

Strengths:

- Fat bottom end
- Full, punchy midrange
- Inexpensive
- Good dynamic response

Limitations:

- Minimal documentation
- Dark top end



Ribbon mics have gained a strong following over the past few years, and for good reason — most models offer natural sound reproduction; the top end isn't hyped, and the dynamic response is "real." But ribbon mics tend to be costly. Except for the Nady RSM-2, which carries a list price under \$250 — amazing for a ribbon. But can it compete with more expensive models?

The RSM-2 is a big, beefy microphone, with a "captive" 8' XLR cable. The mic is mounted in a swivel yoke. It's available with either a platinum- or gold-finished grille. The mic has a low-tension 2" long, 2-micron-thick aluminum ribbon. Nady claims SPL handling up to 165dB. But a word to the wise: there's no warranty on the capsule

(beyond initial inspection) so if you blow the ribbon you'll pay to have it replaced. The polar pattern is figure-8, as with most ribbons. The mic slips into a padded carrying case for storage and transport.

The RSM-2 specs out well; 30Hz-18kHz frequency response (± 3 dB). A-weighted noise is 18dB. Signal-to-noise is 18dB. I tested the RSM-2 using a Focusrite ISA-428 preamp, which provides four different impedances — like most ribbon mics, the RSM-2 is sensitive to load impedance. As expected, changing the impedance noticeably changes the mic's output and noise level.

Sonically, the mic has a fat, full sound. Proximity effect is prominent. There's a radical difference in the sound of this mic at 3", 6", and 12". I tested it on male vocals, and got the

best results with the mic pulled back at least a foot. At that distance (or farther), the bottom end drops back to a natural level, the mids even out, and the top opens up. This isn't a bright, hyped mic — nor is it supposed to be, but even so, the top is fairly dark. The highs work well for overly bright or fizzy electric guitars — especially when coupled with the present, punchy mids — but don't hold up as well when used for delicate acoustic guitar or vocals. Fortunately, the RSM-2 takes EQ well, so you can dial in top end if necessary.

At its price, the RSM-2 is a great value. With careful placement, it delivers natural, dynamic results. While I wouldn't choose it as my only mic, as an additional "color" for a mic locker, it shines. **EQ**

URS FullTec EQ

by Mitch Gallagher

Price: TDM, \$499.99;

Native, \$249.99

Contact: URS, www.ursplugins.com

Strengths:

- Great sound
- DSP-efficient
- Sample rates up to 192kHz

Limitations:

- None to speak of

You can never have too many cool EQs in your studio. And the beauty of DAWs and plug-ins is that you can have lots of different-sounding EQs loaded up and ready to apply wherever you need them. The folks at Unique Recording Software (URS) have made their name by creating plug-ins that emulate the sound of vintage hardware EQs — in fact, all the company does are EQ plugs. The URS FullTec EQ is a first for URS in that it doesn't strictly model one EQ. Rather, it brings together the best features of the Pultec EQP-1 and MEQ-5. FullTec is available in various bundles; the TDM bundle supports TDM, RTAS, and AudioSuite formats, while the Native bundle supports RTAS and AudioSuite.

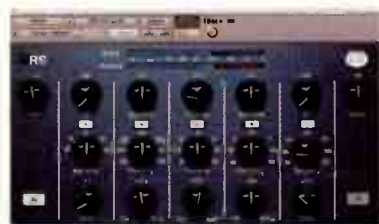
FullTec is a 5-band EQ; the middle three bands are fully parametric peaking designs. The high and low shelving bands are quite different in that you can both boost (with a fixed wide bandwidth) and cut (with a fixed narrow bandwidth); the frequencies of both the high and low bands can be swept. Each band has its own in/out switch, plus there are bypass, phase invert, and master input and output gain controls. Plasma meters display input and output levels. The bands overlap for extra EQ power.

The plug-in is quite DSP-efficient. On an Accel system you can run 25 instances at 44.1/48k, 12 at 88.2/96k, or six at 186.4/192k. With an HD system, you'll get roughly half as many instances. With a Mix rig, you can run six FullTecs. With native systems the number of

instances you can run depends on your computer.

I found FullTec to be very easy to dial in — the plug-in simply sounds warm and natural with almost any reasonable setting. The high shelf did a great job of opening up the top end on dark signals without adding harshness. Having simultaneous boost and cut for the high and low bands means that you can boost the entire shelf for broad shaping, then use the narrow-band cut to shape the curve around the cutoff frequency. The result is effective, especially on the bottom, where you can shape the curve to prevent unwanted thumpiness.

FullTec is another winner for URS. It's easy to dial in, efficient, and sounds great. And that's all you could ask from an EQ. **EQ**



Sweetwater Takes Command of PRO TOOLS

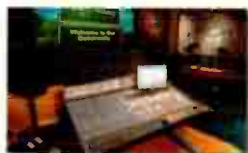
Digidesign's D-Control large-format work surface is the flagship of the ICON family.

Digidesign's ICON family, featuring the D-Control large-format work surface, changed the way Pro Tools users interact with their systems. And Sweetwater was there from the beginning, configuring and installing some of the first ICON systems in the world. Now D-Command, the newest member of the ICON family, brings the power of ICON to a medium-format console.

There's no better place to buy Digidesign's D-Control and D-Command than Sweetwater. Our Sales Engineers are Digidesign-certified Pro Tools users themselves, and have extensive experience with consoles of all types. Sweetwater understands the ins and outs of Integrating Pro Tools and work surfaces into a studio, and we're uniquely qualified to design, configure, install, and test a Digidesign system specifically for your situation. No one knows Pro Tools and ICON like Sweetwater!



ICON INSTALLATIONS BY SWEETWATER



AUDIO RECORDING UNLIMITED
CHICAGO, ILLINOIS



ANOTHER COUNTRY
CHICAGO, ILLINOIS



SWEETWATER PRODUCTIONS
FORT WAYNE, INDIANA

Introducing D-Command, Digidesign's medium-format work surface for the ICON system.



The new D-Command work surface (shown with optional 16-channel fader pack) provides eight channel faders (expandable to 24), extensive metering, dedicated EQ and dynamics panels, monitor control, and much more!



From Pro Tools M-Powered systems to full-blown HD systems, Sweetwater can help you take control of your Pro Tools studio. Call us now!

Sweetwater®

music technology direct™

(800) 222-4700

www.sweetwater.com

Ultrasono PROline 750

by Craig Anderton

Price: \$399
Contact: Ultrasono,
www.ultrasonousa.com

Strengths:

- Extremely transparent highs
- Wide, open stereo field
- Not fatiguing
- Reduced electromagnetic radiation

Limitations:

- Accurate sound, but it'll cost you



People say you can't mix on headphones, and yeah, they're right. But I can't mix *without* them, either. Before mixing, I listen to every track for glitches — and headphones magnify problems that are tough to hear over speakers.

But there are headphones and there are HEADPHONES, and these high-end babies are, well, high-end. The closed cup design is so effective they almost seem like noise-cancelling phones; they don't leak into my vocals, but they also don't have that "vise on the head" feel. I find no

closed cup headphones truly "comfortable," but I can handle these for hours.

The package is deluxe: A set of extra ear pads, coil and straight cords (which unscrew for easy replacement, as do the ear pads), a demo CD, soft pouch, and a 1/4"-to-mini adapter. But perhaps the main claim to fame is Ultrasono's "S-Logic Natural Surround Process." This isn't about 5.1, but creates a more open stereo field than the usual "sound is being rammed into my ear" headphone effect. In a nutshell, the driver is offset so that the sound gets to bounce around your ear a bit rather than jump directly into the ear canal. I indeed noticed a "bigger," but not exaggerated, stereo field.

Coupled with the extraordinary detail, it was easy to pick out individual instruments from recordings with a busy midrange.

The 750 takes a little getting used to; there's a perception of less bass compared to standard cans, which often seem to have more bass compared to speakers. In fact, listening to the 750 comes closer to the "speaker experience" than other headphones I've tried.

My only caution: The high end is *really* extended, so listen to data compressed formats like MP3 at your own risk — you'll hear the violence done to the sound in excruciating detail. But for real world listening, the 750 justifies the stiff price tag. **EQ**

SONIC CIRCUS
 Serious Studio Infrastructure

The most comprehensive selection of recording equipment in the world.

www.soniccircus.com
 1-888-SC4-GEAR **SONIC CIRCUS**

The proof is in the playback.

Every recording environment is different. That's why we offer so many acoustic solutions — and the expertise to maximize sound quality in your unique space. illbruck SONEX, PROSPEC™ and RABBIT™ products are made from willtec™, a high-performance, fire-resistant material that's easy to install and easy to fit in your budget. So make sure there's no sound barrier to your creativity. Call 1-800-662-0032 or visit www.illbruck-sonix.com/eq.

illbruck

© 2005 illbruck, Inc. illbruck and the illbruck logo are registered trademarks of illbruck, Inc. All rights reserved.

MISSING AN ISSUE OF EQ?

EQ™

Call now to complete
your collection!

800-444-4881

Monday - Friday 7am - 5pm cst
Outside the U S call 785 838 7500

Music Player Network

A Division of United Entertainment Media, Inc.

2800 Campus Drive ■ San Mateo, CA 94403
Tel. 650-513-4400 ■ Fax 650-513-4642

www.musicplayer.com
www.eqmag.com



Take Control

With the StudioComm for Surround Model 78
Central Controller and companion Model 79
Control Console, your surround audio
monitoring needs will be under control.

Ideal for a variety of applications where 7.1
surround monitoring is required, the 78/79 system
features multiple source selection, extensive downmix capability,
and integrated bass management. And, of course, delivers the sonic
performance you demand.

So there's absolutely no reason for control to be an issue. Visit our
website or call today for more information.



**STUDIO
TECHNOLOGIES
INC.**

Skokie, IL USA | Ph 847-676-9177 | www.studio-tech.com

AdIndex

These companies would be very happy to assist you in obtaining more information about their products and services. Please contact them via phone or online. For a better response, tell them "I saw it in EQ!"

COMPANY	PHONE	WEB	PAGE #
Apple Computer	800-MY-APPLE	www.apple.com/logic	C2-1
Applied Research & Technology (A.R.T.)	585-436-2720	www.artproaudio.com	29
Audio Technica	330-686-2600	www.audio-technica.com	58
Auralex Acoustics	800-95-WEDGE	www.auralex.com	59
B&H Pro Audio	800-947-5518	www.bhproaudio.com	71, 83
Berklee Press	866-BERKLEE	www.berkleemusic.com	70
Broadcast Supply Worldwide (BSW)	800-426-8434	www.bswusa.com	85
CAD	800-762-9266	www.cadmics.com	30
Cakewalk	888-CAKEWALK	www.sonar4.com/mix	5
Conservatory Of Recording Arts & Sciences	800-562-6383	www.audiorecordingschool.com/eq.html	36
Crane Song	715-398-3627	www.cranesong.com	80
Digidesign	650-731-6300	www.digidesign.com/icon	23
Disc Makers	866-294-8829	www.discmakers.com/eq	65
Discrete Drums		www.discretedrums.com	59
E-MU	877-742-6084	www.emu.com	69
Focusrite	866-FOCUSRITE	www.focusrite.com/pro	51
Frontier Design Group	800-928-3236	www.frontierdesign.com	41
Furman	707-763-1010	www.furmansound.com	61
GC Pro		www.gcprom.com	31
Genelec	508-652-0900	www.genelecusa.com	C3
Grace Design	303-443-7454	www.gracedesign.com	42
Illbruck	800-662-0032	www.illbruck-sonex.com/eq	76
JBL Professional	818-894-8850	www.jblpro.com/LSR	37
Lexicon Pro	801-568-7567	www.lexiconpro.com	45
Lucid Audio	425-778-7728	www.lucidaudio.com	78
M-Audio	626-633-9050	www.m-audio.com	11
Mackie	800-898-3211	www.mackie.com	16-17, 57
Mark Of The Unicorn	617-576-2760	www.motu.com	C4
Marshall Electronics	800-800-6608	www.MXLMics.com	9
Musician's Friend	800-436-6981	www.musiciansfriend.com/tree	79
Neumann USA	860-434-5220	www.neumannusa.com	54
Oasis CD Manufacturing	888-296-2747	www.oasisCD.com	55
Phonic	813-890-8872	www.phonic.com	64
PMI Audio Group	877-563-6335	www.joemeek.com	53
Propellerhead Software		www.propellerheads.se	73
Radial Engineering	604-942-1001	www.radialeng.com	67
Royer Labs	818-760-8472	www.royerlabs.com	68
Russ Berger Design Group	972-661-5222	www.rbdg.com	70
Sonic Circus	888-SC4-GEAR	www.soniccircus.com	76
Sony Pictures Digital	800-577-6642	www.sony.com/mediasoftware	19
Studio Technologies	847-676-9177	www.studio-tech.com	77
Sweetwater Sound	800-222-4700	www.sweetwater.com	21, 43, 63, 75, 92-95
Tascam		www.tascam.com	3
T.C. Electronic	818-665-4900	www.tcelectronic.com	35
Vintech	877-4-MIC-PRE	www.vintech-audio.com	80
Waves	865-909-9200	www.waves.com	15
West L.A. Music	310-477-1945	www.westlammusic.com	78
Yamaha Corporation of America / Steinberg Media Technologies	877-YAMAHA5	www.yamaha.com, www.steinberg.net	24-25

Sounds



QUANTUM LEAP

Ra
For ethnic instrument sounds, *Ra* indeed offers Exceptional Quality.



QUANTUM LEAP
Ra



Contact: East West,
www.soundsonline.com

Format: Four DVD-ROMs (14.1GB data), plays back through NI's Kompakt VST/RTAS/DX/standalone instrument (included)

Price: \$995

When I first saw *Ra*, I thought "How will they be able to sell something at this price?" But after working with it for awhile, that turned to, "I wonder if they can make any money at this price?"

I think *Ra* must mean "very expensive project" in Egyptian. There are 69 well-recorded instrument groups (organized by geography — Africa, Europe, Americas & Australia, Far East, India, and Mideast). The emphasis is on melodic instruments; QL recommends their Stormdrum package for percussion. I did assume some instruments were never-to-be-used throwaways ("Alpenhorn? Gimme a break!"). But surprise: That Alpenhorn made a great drone

behind a drum 'n' bass piece.

Compared to the recording, though, I'd bet at least an equal effort went into the mapping/multisampling. The key to *Ra's* expressiveness is three program types. "Keyswitch" programs use particular keys to call up variation programs, so you can switch articulations rapidly. "Live" programs are designed for idiomatic, real-time playing — different velocities bring in trills, bends, effects, and the like. (The Koto, with four velocity-switched samples, is an outstanding example.) Finally, "Elements" contain the basic instrument programs and effects, divorced from keyswitching. Also note that there are recordings of ensembles, too.

Expressiveness is somewhat limited by having only four MIDI controllers (volume, filter, pan, and expression); however, the files are compatible with Kontakt, a more sophisticated playback instrument that can do MIDI "learn" for almost all its parameters.

While everything is tuned for our even-tempered world, some instruments are available in their "native" tuning. And, *Ra* takes advantage of Kompakt's ability to create microtuning presets. Nice.

So who's the target audience? I'd say scoring. Any movie with locale shifts (e.g., James Bond) is a natural. In this context, *Ra* would easily pay for itself. For adding exotic elements

WE WILL BEAT ANY DEAL!

EVERY MAJOR BRAND IN STOCK!

Guitars • Amps • Drums • Keyboards • Synthesizers • Samplers
Sound Systems • Recording Equipment • Software • Accessories



The legendary Ray Charles with West L.A. Music's Don Griffin | West L.A. Music's Glenn Noyes with rocker Sammy Hagar | Legendary DJ Sir Jinx with Damon Gladden and Ryan Mason | Country star Randy Travis with West L.A. Music staff member



Commodores keyboardist Thomas Dawson with Daron Randolph | West L.A. Music's Bob Gsellman with R&B singer Mya | Legendary keyboardist Patrick Moraz with West L.A. Music staff member | Beatle George Harrison with West L.A. Music's Derek Snyder

Shop Where the Pros Shop • Call Us Today!



West L.A. Music

call now: 310-477-1945 • sales@westlamusic.com

We will beat any price from any authorized stocking dealer anywhere in the United States

EXTREME
DIGITAL
AUDIO
MANAGEMENT
TOOLS



Clocks
AD/DA Conversion
Digital Distribution
Sample Rate Conversion

lucid

www.lucidaudio.com



© 2005 Musician's Friend, Inc.

Create.



At Musician's Friend we have the tools to fuel your creativity. Our enormous selection of instruments, recording gear, software, and other music tools offers the building blocks to bring your musical inspirations into reality.

Visit us online to discover over 30,000 creative products at the lowest prices anyplace, guaranteed. You'll also find countless product reviews, tips, articles, and fun stuff. Call us to receive our catalogs brimming with the gear to give voice to your ideas.

Find out what millions of musicians already know—when that moment of inspiration arrives, we're here to help you give it full expression.

You supply the inspiration. We'll supply the gear.



Musician's Friend

The World's Largest Music Gear Company

For Your **FREE** Catalogs

1-800-436-6981 • www.musiciansfriend.com/free

Source Code: EQEF

- Lowest Price Guarantee • Satisfaction Guarantee
- Free Shipping on Most Orders over \$199* • Call or Click 24/7
- Huge Inventory of In-Stock Gear Ready for Immediate Delivery

Limited to stock on hand; prices subject to change; standard catalog shipping rates apply.
*Some exceptions apply, call or go online for details; limited time only.

World Radio History



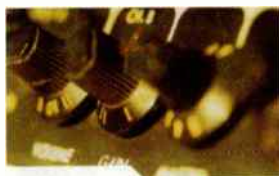
Sounds

to envelope-pushing music, *Ra* again scores big; it's a sonic adventure. But be aware you need to *play* the instruments, and you can't separate the sound from the context. For example, the tambura samples are always going to trigger "India" in your brain. Granted, if you need "impressionistic" rather than "literal," Kompakt offers significant signal-warping options. But make no mistake: This library is designed to fulfill a very specific function — provide authentic-sounding ethnic instruments.

And as it turns out, that's exactly what it does. From the sounds themselves to the documentation, *Ra* indeed offers exceptional quality. I wouldn't be surprised

if quite a few people will have no trouble justifying the admission price.

—CRAIG ANDERTON



RAW POWER



LOOPMASTERS

Raw Power

Contact: Big Fish Audio, www.bigfishaudio.com
Format: CD-ROM with WAV and REX files, NN-XT/Redrum patches
Price: \$69.95

Just in time for our rock issue, this little gem appeared with over 900 WAV files, 750 RX2 files, 200 hits, and a couple dozen NN-XT patches and Redrum kits. Files are organized by genre: Alternative, Artskool (heavy), England's Dreaming (punk and pop), New Wave, and New York Underground (sort of a rock grab bag). You get bass, drums, guitar, and synths, along with some vocal effects (screams, yehs, countdown, and so on). Although *Raw Power* works well as a set of self-contained construction kits, I could also see using the files as accents to other songs.

Don't get this for the NN-XT/Redrum patches; they're more bonus goodies.

The WAV and REX files are the stars, and the slice editing isn't too bad. You can stray a bit from the root tempo, but for wider stretches, tweaking the "slice" markers gives much better sound quality with most files.

It's hard to pull off rock loop CDs, but this one's good. Last week I needed a "generic rock bed" under the narration for a video; *Raw Power* would have been perfect. The loops mesh well together, and the playing is crisp. This CD won't win any awards for innovation, but it's cost-effective and works — if you need some rock "library" music, buy this instead. You'll be able to customize the sound more, and have fun while you're doing it. —CRAIG ANDERTON

Vintech

Introduces the X73i!



We put this piece head to head with vintage Neve 1073's at this year's AES show. It is 100% guaranteed to meet your expectations and is an incredible value. List price \$1595 **Special \$1375**



The X73

The Vintech X73 features custom hand wired concentric style switches with gold plated pins. Swiss made military grade attenuator switch. List price \$1995 **Special \$1795**



The "X81 CLASS A"



The Model 473

www.vintech-audio.com
1-877-4-MIC-PRE

putting music back into digital recording



WWW.CRANESONG.COM
 715 398 3627

CRANE SONG LTD.

2005

OCT 21-23

MUSIC
PLAYER
LIVE!



NEW YORK
NY CROWNE
PLAZA
TIMES SQUARE MANHATTAN

THE ULTIMATE CONSUMER MUSIC SUMMIT



A three-day consumer music event, designed to educate new players and inspire advanced players!

There will be something for every level of musician at Music Player Live!

MEET THE STARS

MAKE CDs, GET AUTOGRAPHS, HANGOUT, AND INTERACT!

LEARN HOW TO PLAY!—IT'S EASY

MASTER CLASSES TAUGHT BY TOP-MUSICIANS

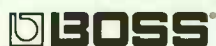
EXCLUSIVE PERFORMANCES

HOME RECORDING WORKSHOPS

MEET THE EDITORS OF *GUITAR PLAYER*, *BASS PLAYER*, *KEYBOARD & EQ* MAGAZINES

& MUCH MORE!

PLUS—GET YOUR HANDS ON THE LATEST GEAR AT MUSIC PLAYER LIVE!
AND IF YOU DIG IT, YOU CAN BUY IT *RIGHT THERE!*

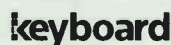


FLAGSHIP SPONSORS



GOLD LEVEL SPONSORS

For more information please visit www.musicplayerlive.com





Cakewalk Sonar

Use snapshot automation to trigger multiple parameter changes

Objective: Change multiple parameters, all at the same time, using snapshot automation techniques.

Background: Dynamic automation, where you move faders and knobs in real time, is very useful. But sometimes you want a lot of parameters to all change at the same time, like when transitioning from one part of a song to the next. This is an ideal application for snapshot automation.

1



1 If the Automation Toolbar isn't visible, go View > Toolbars and check Automation. Click Close, and the Automation Toolbar appears.

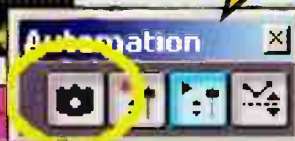
2 Arm automation for parameters you want included in the snapshot (right-click on the parameter and choose "Arm for Automation"). They become outlined in red. Adjust each parameter as desired.

3 Place the Now time where you want the automation snapshot.

4 Click on the Automation toolbar's camera ("snapshot") button. Do not click on the Record Automation button, which is used for dynamic automation.

5 Sonar now places a node that corresponds to the parameter value on each automation envelope (nodes are outlined in yellow for clarity). If there is no envelope, Sonar creates one. Repeat steps 2-5 until you've added all desired automation moves.

6 To disarm the armed tracks, click the button to the right of the Snapshot button. Or, click on the Auto button toward the bottom of the screen.



tips

- Entering snapshots can occur only when the transport is stopped.
- In the Automation toolbar, the icon to the right of the Disarm button enables/disables automation playback.

INTEGRATION



Live Sound & PA
Solutions

Desktop Audio • Live Sound/PA • Pro Recording
• Broadcast/ENG • Electronic Field Production

420 Ninth Ave., NYC 10001
www.bhproaudio.com
800-947-5518





Native Instruments Intakt

Get more out of this popular sample library player

Objective: Customize "beat machine" loops via MIDI editing

Background: Rhythmic sample-library loops are often mapped into Intakt's "beat machine," which slices audio into small pieces (like REX files) to allow for high-quality time stretching. However, if you use Intakt with a MIDI-compatible host, you needn't be locked into when and how the slices play back — you can drive them with MIDI data. We'll do this with Cubase SX3, but the same principle applies to other hosts.



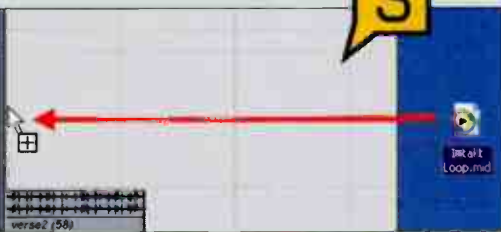
1



2



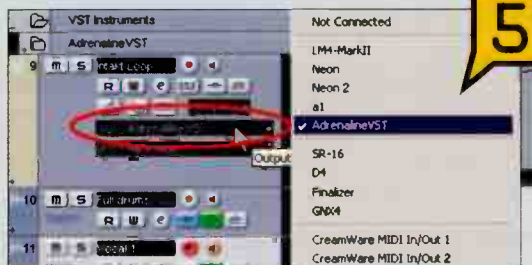
4



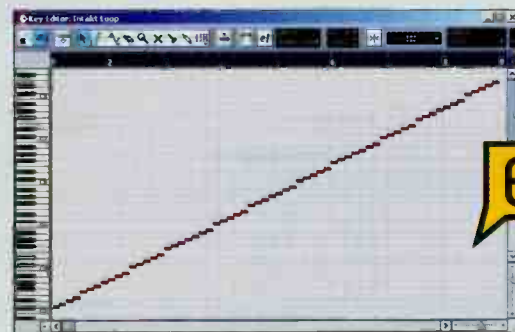
3



5



- 1 Click on any Intakt key that plays back a beat machine-sliced loop (or an individual slice from the loop). The beat machine label turns blue and the main display shows the slices.
- 2 Click on Intakt's Command menu and select Export Midfile.
- 3 Locate where you saved the MIDI file, then import it into a MIDI track in the host program. This is usually done by "drag and drop" (as shown), or via a *File > Import* menu command.
- 4 The MIDI file now shows up as MIDI data within the host's MIDI track.
- 5 Make sure the MIDI track output is assigned to the Intakt instrument.
- 6 Open the MIDI track in an editing view, and edit the file as desired — move slices around, copy, transpose, delete, and so on. On playback, this edited data will now trigger the slices in Intakt's loop.



6

tips

- This tip also works with the Beat Machine function in Kontakt.
- Propellerhead Software's ReCycle has always been able to export a Standard MIDI File for REX format loops. This SMF can trigger the slices in a REX file using the same basic principles mentioned above — load the file into a host, and assign it to the device playing back the REX file.

NEW!!

Firewire Digital Audio Workstation with Cool Freebies!

For \$1299⁹⁹ you get a world-class front end to your computer recording setup!

Tascam FW1884 DAW with FREE AKG K240S Headphone & C2000B Mic plus Boom Stand and 25' Mic Cable!

BSW's new limited time-only FW1884 package is an incredible deal! For the price of the FW1884 alone we're throwing in an AKG K240S professional studio headphone, the C2000B studio condenser microphone, a sturdy mic boom stand and a 25 ft. mic cable! All with free shipping! Get in on this great deal while it lasts! The Tascam FW1884 is a professional DAW control surface and audio/MIDI interface that uses high-speed FireWire connectivity to deliver lightning-fast, robust performance. NEW Version 1.30 software allows the FW1884 to send commands to soft synths, plug-ins and MIDI sequencers directly through its FireWire interface, adds GSIF-2 compatibility to function as a low-latency audio/MIDI interface for GigaStudio3, and improves compatibility with Apple PowerMac G5 computers.



LowestPrice@bswusa.com Package Only \$1,299⁹⁹!

List \$2,079 - You Save \$779 AND get FREE SHIPPING when you order on the web • Order Item Number: FW1884PKG

Lexicon MX200 Multi-Effects Processor w/USB Connection

NEW!!
lexicon

This dual-processor, multi-effects processor is designed for both live sound and home recording. Featuring the rich reverb and effects algorithms that built the Lexicon legacy, the MX200 offers increased versatility with dynamics processing (compressor and de-esser) and special effects. In addition to superb effects processing, the MX200 adds a USB connection for direct use in computer-based recording applications! A first!

MX200 List \$299.95 **LowestPrice** only \$199!



Tascam Mastering Recorder TASCAM DSD and Standard Format to DVD/CD

Introducing the new standard for stereo audio recording: DSD (the Super Audio CD audiophile standard) in an affordable DVD+R/RW recorder. The DV-RA1000 records standard CD audio to CDs or DVDs at up to 192 kHz/24-bit resolution, as well as recording in the DSD format. Multiband compression and 3-band EQ mixdown effects make it IDEAL for digital mastering. It features a user-friendly front panel interface, wired remote and professional connections including USB 2.0 port and RS-232 serial control, as well as balanced XLR and unbalanced RCA input/output connections. The DV-RA1000 supports UDF disk format for cross-platform computer compatibility. Cool!

DVRA1000 List \$1,499.00 **LowestPrice@bswusa.com**

Tapco Powered Monitors

Mackie's Tapco S5 (5.25" woofer, 1" silk dome tweeter) delivers powerful and accurate 60/60 watt bi-amplified sound at a great value! Priced as pairs. The new SW10 Tapco subwoofer provides 120 watts of continuous power, with XLR balanced and RCA inputs. Stereo high-pass outputs are on XLR and RCA. Includes 4th order, 24 dB/octave Linkwitz-Riley crossover.

S5 5.25" List \$349.00 pair
SW10TAPCO Sub List \$419.00 each

LowestPrice@bswusa.com



ALESIS

Alesis Multi-Mix Audio Mixers with Firewire Interfaces



Alesis now has state-of-the-art production mixers that connect directly to your computer via FireWire interfaces. This new line of compact mixers features 100 great-sounding 28-bit digital effects including reverbs, delays, chorus, flanging, pitch and multi-effects, and provide 24-bit, 44.1/48 kHz operation with high-end A/D and D/A conversion through an integrated FireWire audio interface. Next-generation Dice II FireWire chip. Steinberg Cubase LE software included with all mixers.

MULTIMIX16FW 16-channel Firewire mixer List \$599.00
MULTIMIX12FW 12-channel Firewire mixer List \$499.00
MULTIMIX8FW 8-channel Firewire mixer List \$399.00

LowestPrice@bswusa.com

EV Blue-Series Cardinal and Raven Mics

The Cardinal and Raven are from the all-new Electro-Voice Blue Series. The Cardinal is a high-performance cardioid condenser mic that features a high-quality, Class-A discrete low noise amp. The Raven is a rugged dynamic mic designed to capture the true character of live and studio vocals.



CARDINAL \$199.00
RAVEN \$149.00 **LowestPrice** from \$149!



SENNHEISER

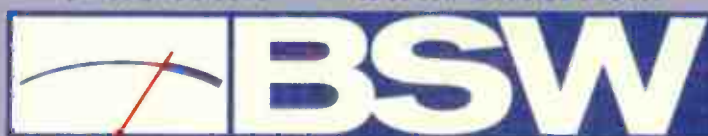
Incredible Value Headphones!!

Five Sennheiser HD202 headphones for \$89.00? We're not kidding! These durable, sealed-ear headphones provide crisp bass response and good isolation. Powerful neodymium magnets offer high sound levels with 18 Hz-18 kHz frequency response. Impedance: 32 ohms. BSW has sold over 10,000 of these popular headphones! HD202PKG List \$149.75

LowestPrice 5 for only \$89!!

FREE SHIPPING ON ORDERS OVER \$189!!! Just make your purchase on our website and we'll cover the shipping!

Lowest Prices at: www.bswusa.com



1-800-426-8434
World Radio History

Knowledgeable Staff

Our staff is highly trained and experienced in all aspects of audio equipment. We'll help you choose the right gear for your needs and budget.

LowestPrice@bswusa.com

Our website is the best place to find the lowest prices on all our products. Visit us today!

Same Day Shipping

Order by 11:00 AM and we'll ship your order the same day.

Free Shipping on Web orders over \$189

Free shipping on all web orders over \$189. (Excludes Alaska and Hawaii.)



AEA R84 Ribbon Microphone
AEA

Now Available
Large Ribbon Geometry microphone. The R84 is an outstanding general-purpose microphone, ideally suited for solo and accent work. A fine example of the natural sound and figure-8 directional sensitivity
SRP: \$1100
www.ribbonmics.com
1-800-798-9127



Pendulum Audio Quartet II Mercenary Edition
Pendulum Audio

Now Available
Four independent units in one box!! Four different sounding mic-pres; a Pultec style EQ; Delta-MU compressor; and a Peak Limiter that can be separately or in any combination.
SRP: \$5000 USD
www.pendulumaudio.com
908-665-9333

M24 Universal Control Surface
Mixed Logic

Now Available
Hands on traditional control for your favorite audio software. Featuring 24 100mm motorized faders and 54 rotary controls. The M24 offers advanced features not found on other control surfaces, including a full dedicated EQ section and extensive plug-in control.
SRP: \$2880
www.mixedlogic.com
440-826-1676



Sound Anchor Adjustable Speaker Stands
Sound Anchors

Now Available
Hi-Performance speaker stands and custom studio furniture for the recording, post production and broadcast industries.
SRP: \$450/pair
www.soundanchors.com
321-724-1237



Aviom Monitor Mixing System™

Aviom, Inc.
Now Available
Aviom solves monitoring problems by giving performers control of their monitor mix. Sixteen digital audio channels are delivered to a compact controller that drives earbuds, headphones, or powered speakers and can save sixteen mixes.
SRP: A-16II Personal Mixer \$499.95, AN-16/i Input Module \$899.95
www.Aviom.com
610-738-9005





SVTMP
Ampeg Amplifiers

Now Available
The SVTMP is a tube-driven Microphone Preamp / Direct Box for stage or studio. It features (1) each 12AX7 and 12AU7 tubes for tone coloration and warmth. It features a combination XLR and 1/4" input jack, tube driven XLR output, and 48v Phantom Power.
MSRP: \$529
www.ameg.com
314-727-4512

MAX-Wall™

Auralex Acoustics, Inc.

Now Available
MAX-Wall is our patented mobile, acoustical environment designed to provide you with absorptive capabilities wherever your needs dictate. MAX-Wall is available in many different sizes and colors and is expandable.
SRP: from \$169 to \$999, depending on configuration
www.auralex.com
317-842-2600



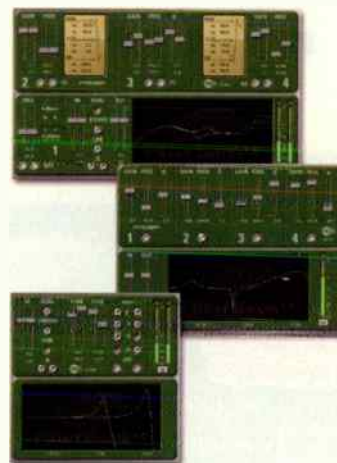
RSM-2 Ribbon Studio Microphone
Nady Systems

Now Available
Breakthrough affordability, with the uncompromised performance of a classic ribbon mic: figure-8 pattern, smooth audio with natural low and high ends, ultra-high SPL capability, unmatched transient response and stunning realism.
SRP: \$349.95
www.nady.com
510-652-2411



Gefell UMT70S multi-pattern mic with M7 capsule

Gefell
Now Available
Superbly crafted for voice and instrument recording, the Gefell UMT70S FET microphone features the legendary M7 capsule with gold evaporated PVC membrane, still hand-made using the exact process outlined by Gefell founder Georg Neumann.
SRP: \$1750 US
www.gefell-mics.com
604-942-1001



FilterBank LE
McDSP

Now Available
The first release from McDSP's new LE product line, FilterBank LE is an RTAS only version of the original FilterBank EQ plugin. Three EQ/filter configurations are included. OS X and XP versions available.
SRP: \$195 US
www.mcdsp.com
650-318-0005



BlueTube DP
PreSonus Audio Electronics

Now Available
Two-channel microphone/instrument preamp with "Dual Path" technology allowing the option to switch between vacuum tube or solid state preamp. Great for all microphones, guitars, basses, keyboards, and sound modules.
SRP: \$229.95
www.presonus.com
225-216-7887

MARKETPLACE

To Advertise in Marketplace please contact Derick Joy at 650.513.4403 or djoy@musicplayer.com

pcAudioLabs
<http://www.pcaudioLabs.com>



Custom Digital Audio Workstations

ROCK SOLID.

info@pcaudioLabs.com

818.986.2673

OMNIRAX SUPPORTING CREATIVITY WITH INNOVATION AND STYLE

The Industry Leader in Studio Furniture

Synergy XL Series

Synergy S6DXB XL



pictured with optional
 sub mixers "chassis"



Synergy S6DXB XL

The Synergy XL's are designed to provide beautiful and ergonomic console housings for all the popular mixers, providing you with optimum functionality to accommodate these mixers and associated peripherals.

P. O. Box 1792 Sausalito, CA 94966
 800.332.3393 415.332.3392 FAX 415.332.2607
www.omnirax.com info@omnirax.com

"...The sound was perfect: huge, creamy and tightly focused...the sound was so rich and full that I would've sworn that this was a tube pre, except that the sound also had a solid-state focus."

- PEQ1/PEQ1R review, Mix June '04



PEQ1

CM7

CM12

PEQ1R

i wunder

W wunder audio

main number
 512.338-6777

new york
 516.505-0544

wunderaudio.com



\$1099.00
 Complete Minijacket Package
 INCLUDES COLOR PRINTING
 WWW.PLAY-ITPRODUCTIONS.NET
 TOLL FREE:
 1-800-815-3444 or
 212-695-6530
PLAY-IT PRODUCTIONS

technical furniture
argosyconsole.com
 500.315.0872

ARGOSY

VISIT US AT: EQmag.com

GET CONTROL!



Quick and Easy Isolation
 Portable and Free-Standing
CLEARSONIC PANEL
 Drum Shields
LID SYSTEM
 with AX12 Height Extenders
SORBER
 Absorption Baffles

1.800.888.6360
clearsonic.com



MASTERING YOURSELF?

THAT'S LIKE HOME DENTISTRY!



TREELADY STUDIOS

www.treelady.com

412-816-0300

Great Exposure

Manufacture your CD at Oasis and get all of these promotional services—FREE:

- OasisSampler™ Radio Promotion
- Distribution: CD Baby, Borders.com, CD Now, Amazon.com, Virginmega, Waldenbooks
- XM Satellite Radio Airplay
- Sonicbids® Electronic Press Kit
- CD-ROM of 14,000 Music Industry Contacts
- Direct SoundScan® Upload
- Patent-Pending Retail Display Racks

||:OASIS:|
CD MANUFACTURING
www.oasisCD.com
tel (888) 296-2747, (540) 987 8810
email info@oasisCD.com

CharterOak Acoustic Devices

Clean and simple electronic design.
Gorgeous sounding, dependable & consistent vacuum tube condenser microphones.



We're not emulating the old classics...
we are creating the classics of tomorrow

www.charteroakacousticdevices.com

VISIT US AT: EQmag.com

PROSCREEN XL

NEW!

EXTENDED CLAMP
ADVANCED DESIGN
6 INCH DIA. SCREEN



STEDMAN
888-629-5960
www.stedmancorp.com

Made in USA

SALE! PLUS FREE ADHESIVE!

MARKERFOAM™ ACOUSTIC FOAM

GIANT 54"x54" • \$21.99
IMMEDIATE SHIPPING

Kill Noise Quick! Maximum density sheets of Markerfoam mount easy & look professional. A low cost, super-effective sound absorption solution that's proven in studios worldwide. Request Foam Catalog & free samples today. Blue or gray available.
2" Reg. \$29.95 Now \$21.99 • 3" Reg. \$39.95 Now \$29.99

MARKERTEK BLADE TILES™

America's Best Acoustic Tile Value!
High Performance...Low, Low Cost!

BT2 16"x16"x2", charcoal or blue...\$4.99 ea.
BT3 16"x16"x3", charcoal or blue...\$6.49 ea.
BT4 16"x16"x4", charcoal...\$7.99 ea.



BASS TRAPS

Serious Low Frequency Absorption!
Triangular design to fit the corners of your room!
23.5" H x 11" D. Charcoal Gray.
MF-BT1 • \$22.99 Ea.

FREE Foam Adhesive with any purchase of 6 or more foam sheets! Promo Code # EQFA

MARKERTEK JUMBO SOUND ABSORB BLANKETS

Heavy-duty 76"x68" padded blankets absorb sound wherever they're hung or draped. Fabulous for stage, studio and field use. Top professional quality at a super saver price! Weight: 6 lbs. Black. SAB-1 • \$19.99

markertek.com®
MARKERTEK VIDEO SUPPLY
www.markertek.com • 800-522-2025

All foam products shown above meet UL94 HF-1 flame retardancy. Check your local building & fire codes.

CLASSIFIEDS

DUPLICATION



Lonely RECORDS

CD & DVD Manufacturing
10% National Price Guarantee

99¢
Retail Ready CD Package

PRINTING
GRAPHIC DESIGN
AUDIO MASTERING
DVD AUTHORIZING
POSTERS
BUSINESS CARDS
POSTCARDS
BARCODES
AND MORE

Get a FREE Catalog
1.800.409.8513
www.lonelyrecords.com

You should care who makes your CD.

We do.

- the best customer service in the business*
- instant online quote
- inhouse mastering, design & multimedia
- quality finished CDs, DVDs & vinyl



MUSIC MANUFACTURING SERVICES
www.musicmanufacturing.com

US: 1-800-293-2075
Canada: 1-800-667-4237

New York • Toronto • Montreal • St. Johns
*Read our client survey results to find out more.

CD • DVD • CD-ROM • SHAPED CD • CASSETTE • PACKAGING

NEED CDs?

the choice is

CRYSTALCLEAR

DISC & TAPE
Trusted experience for over 30 years.

1000 CDs • \$999! (Complete! Retail Ready)
1000 Promo CD Pack • \$599!
1000 DVDs • \$1899! (Complete! Retail Ready)

1-800-880-0073
www.crystalclearcds.com

DUPLICATION



100 FULL RETAIL READY CDs \$244.00!

Includes 4/0 Full Color Cover and 4/0 Full Color Traycard, Assembly and Shrink Wrap!

Quality CD Duplication 50 to 500 copies in 24 to 48 hours!

VISIT US ON THE WEB
www.elsproductions.com

1-800-927-3472

Call for more info or free sample packet



Mastertrack

FREE BARCODE!



RETAIL READY CD PACKAGES
Price includes replicated album disc NOT CD-R!

300	500	1000
\$35	\$95	\$1095

888.551.3348 www.mastertrack.com

www.yourmusiconcd.com

100 BULK CDRS \$59
100 BASIC CDRS \$99
100 FULL COLOR CDR PACKAGE \$199
500 FULL COLOR CDR PACKAGE \$824
1000 FULL COLOR CDR PACKAGE \$1174

Includes: 10 Free CDs, 10 Free CD-Rs, 100 or more per package
 300 FULL COLOR PACKAGE \$549

SNS DIGITAL INC
 ATLANTA 878-442-0933
 TOLL FREE 1-877-442-0933



2500 CD's Only \$1999

Includes: On Disc Printing • Bar Code
 Full Color Printed Booklets • Cello Wrapping
1-877-633-7661
 www.OddsOnRecording.com
 Visa • Mastercard • Amex • Discover

SOUNDS / SEQUENCES / SOFTWARE

Drum samples for Drumagog
 Large collection of high quality samples, ideal for rock and metal. Produced by engineers who understand the essence of drums
 www.farviewrecording.com

Dopest Hip-Hop/R&B
 sound libraries on floppy disks. MPC-2000, MPC-2000xl, MPC-3000, ASR, EPS, SP1200 and .WAV. (310) 842-7670.
 www.soundsforsamplers.com.

GEAR FOR SALE

Advanced polymer fretboard.
 Lights up chords, scales & songs.
 USB connection to PC.
Cool.



www.optekmusic.com
 1-800-575-6511

EVERY MAJOR BRAND OF EVERYTHING.
 MILLIONS OF DOLLARS OF MUSICAL GEAR IN STOCK.
ALTO MUSIC

Guitars, recording, keyboards, amplifiers, drums, pro sound, new & used. One of the largest selections in the country.
 We ship everywhere.
 (845) 692-6922 • sales@altomusic.com
 180 Carpenter Ave., Middletown, NY 10940
 Ask for Uncle Freddy – He loves Ya!

WHAT PART OF THE WORD **AGONIZER** DON'T YOU GET, MONKEYBOY??
 WWW.METASONIX.COM

Visit www.midi-classics.com

helping musicians since 1993

Low prices, Selection, Service
 Pro audio, software, samples
 Call 800-787-6434 NOW!



ACOUSTIC PRODUCTS AND SERVICES



SOUND ISOLATION ENCLOSURES

Celebrating over 14 years of reducing sound to a Whisper!
 Recording, Broadcasting, Practicing



MDL 102126S (8'5"X10'5")

19 Sizes and 2 Levels of Isolation Available
 New! SoundWave Deflection System (Change parallel walls to non-parallel)
 Immediate Shipping!
 www.whisperroom.com
 PH: 423-585-5827 FX: 423-585-5831



58 Nonotuck St., Northampton, MA 01062
ORDER (800) 583-7174
 info@silentsource.com • www.silentsource.com
 Acousticore Fabric Panels • Sound Barrier Isolation Hangers • A.S.C. Tube Traps
 Silence Wallcovering • WhisperWedge Melaflex • S.D.G. Systems • Tecnifoam R.P.G. Diffusors • Sonex • Sound Quilt



MINI TRAPS — Affordable Acoustic Treatment
Rave Reviews From Top Pros

"Our control room at Le Crib Studios needed serious help. After installing MiniTraps the room sounds better than we believed possible, with clear, round bottom and vastly improved imaging. Fantastic product, great company."
 — Nile Rodgers
 1866-732-5872 www.REALTRAPS.com



MODULAR SOUND REDUCTION SYSTEMS



Listen to your dreams. Follow your heart. Don't ever stop.

- Calvin Mann

541-330-6045

WWW.VOCALBOOTH.COM

ACOUSTIC
Design Consulting Products
www.soundcontrolroom.com
toll free 866-788-1238

Over 10,000 Studios Served
Total Sound Control
Auralex
ACOUSTICS
www.auralex.com
What About Your Room?

AcousticsFirst™
Toll-Free Number: **888-765-2900**
Full product line for sound control and noise elimination.
Web: <http://www.acousticsfirst.com>

STUDIO FURNISHINGS

Gear racks, media drawers and more
The RACKIT™ System
Factory direct since 1984
Free brochure (please mention EQ)
Per Madsen Design (800) 821-4883
www.rackittm.com

Record, Mix, Master...
Think in peace.
www.silencecases.com
510-282-7867
Starting at \$429
Silence Cases

MASTERING

DRT Mastering
the Analog Specialist
You will have the fat, slamm'n' major-label sound that sells discs... or the work is free. Custom gear. First-class results. Free 16-pg brochure
800-884-2576 www.drmmastering.com

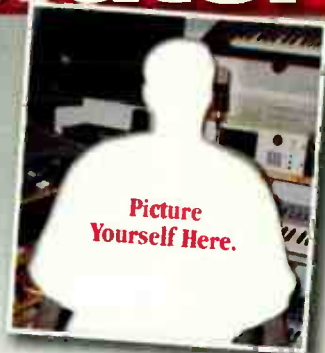
"One Minute Free" Mastering
www.audiorecordingandservices.com

QUALITY CD MASTERING
30+ years experience / Big Sound
All styles - Complete / CD \$400
1-816-221-4300 www.brcaudio.com

MASTERING
"BIG LABEL" Sound... Guaranteed!
Located in New York
Serving the U.S.
Since 1989
\$475. Complete Album Deal!
1-800-692-1210 
www.musichousemastering.com

Picture yourself at
Sweetwater

- **Position at Sweetwater:** Sales Engineer
- **Education:** A music or music technology degree is always good, but we also appreciate the value of real-world experience in the music biz.
- **Why did you apply for a job here?** For the ability to make good money in the field you love — an opportunity for security in an ever-changing audio industry, where the one constant is that Sweetwater continues to grow every year, remaining leaders in music and music technology.
- **Technical strengths:** You know how a studio works inside and out. From the mics and preamps to the hard drives, there's nothing you haven't taken apart to study. You're just as happy talking tech as you are recording.
- **Instruments you play:** If you're like most of us, probably keyboards or guitar. Or a mix of both, plus the horn you played in the school band.
- **Gear you own:** Most of our employees have home studios from modest to Pro Tools HD.
- **Family info:** Sweetwater's all about family. That's why we've chosen to stay in Fort Wayne, where it all started. Fort Wayne has great job opportunities for your spouse, an excellent school system, and one of the best salary to cost-of-living ratios in the country. Plus, Sweetwater's health insurance plan is family-friendly!
- **How would your boss describe you?** Hardworking. Resourceful. Willing to do what it takes to succeed, yet easygoing and fun to be around.



If you see yourself in this picture, apply online at www.sweetwater.com/careers or send your cover letter and resume to careers@sweetwater.com

800-222-4700 ext. 1050

5335 Bass Road, Fort Wayne, IN 46808 • FAX 260-432-1758

Sweetwater
music technology direct™

ACCESSORIES

JustStrings.com

World's Largest Selection of Guitar & Bass Strings!
www.juststrings.com (800) 822-3953

hearing is believing**Extreme Isolation Headphones™****Why Extreme Isolation for HOME STUDIOS?**

- Will not leak sound during recording
- Record LOUD instruments next to your multi-track in the same room
- Record LIVE drums next to your multi-track
- Great for microphone placement to find the sweet spots of instruments

www.extremehdphones.com
or search the web

Toll Free 1-877-962-2832

Model EX-29



EDUCATION AND TUTORIAL

BE A RECORDING ENGINEER
★ TRAIN AT HOME with ATA
Easy Home-Study practical training in Multi-track Recording. Join our successful working graduates or build your own studio.
FREE INFORMATION:
Audio Institute of America
114 48th Avenue, Suite AN, San Francisco, CA 94121
Or visit us at www.aiaa-institute.com

Case Specialists
discount-distributors.com
We Will Beat ANY Price!
800-346-4638



Want the ultimate studio-to-go?



Apple 17-inch PowerBook G4™

The most powerful PowerBook ever
More power. More speed. More Digital Performer.
As in more tracks, more plug-ins and more virtual instruments. The breathtaking 17-inch PowerBook has just been speed-bumped. Again. To a blazing 1.67GHz. The PowerBook is the ideal platform for DP, the all-new Traveler, and a host of third-party plug-ins and add-ons.



MOTU Traveler™

Bus-powered high definition FireWire audio
The first bus-powered FireWire audio interface to offer four mic inputs and exceptionally high-quality high definition analog recording and playback. Just plug in the FireWire cable and power everything off the battery in your computer — you can operate your studio anywhere! Slides easily into your knapsack or bag, next to your PowerBook.



Alesis Photon™ X25 Portable 25-Key USB MIDI Controller / Audio Interface

Looking for the ultimate compact keyboard controller for your MOTU studio-to-go? The Photon X25 delivers the revolutionary Alesis Axyz controller dome and ten 360-degree rotary knobs, giving you powerful hands-on MIDI control of your Digital Performer studio and software plug-ins. Advanced features include 24-Bit 44.1/48 kHz USB audio I/O with balanced stereo audio inputs and outputs, 25 key, velocity sensitive keyboard, full-size pitch and modulation wheels, and an LCD screen with dedicated encoder for fast and easy set-up.

Call the DP 4.5 and MOTU experts.



Waves IR Convolution Reverb Series

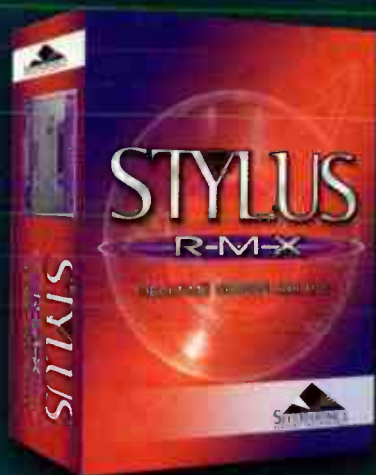
Stunningly realistic acoustic environment simulation

The new Waves IR convolution reverb series brings unprecedented realism to your MOTU studio, while also offering the flexibility of traditional parameter control not found in other convolution reverb systems. IR-L lets you start with exact reproductions of well over 50 acoustic environments, and then tweak things like pre-delay and reverb time while maintaining the character of the original space. IR-1 V2 adds even more parameter control, plus the ability to sample your own acoustic spaces. No matter where you track, Waves can put you in control of your aural environment!

Native Instruments Komplete™ 2

Software Bundle with 11 Standalone or Plug-in Instruments / Effects

For DP4 users who want it all: the legendary sound of the D4, the endless possibilities of REAKTOR, the award winning sample engine of KONTAKT, the incredibly unique ABSYNTH — KOMplete 2 delivers an infinite universe of sound, uniting every essential type of instrument and effect in a 22GB sonic workstation for your DP4 studio. But it doesn't end there: explore even more sonic territory with the 8 sound libraries bundled in KOMplete SOUND: 15 ground breaking REAKTOR instruments, more than 4500 inspiring drum samples for BATTERY and KONTAKT, a total of 512 exciting new presets for the FM7, 256 outstanding patches for ABSYNTH and an additional 11 tone wheel sets for the B4. KOMplete SOUND is an inspiring parallel universe of sounds, samples and presets for KOMplete 2. Expand your Digital Performer studio today!



Spectrasonics Stylus™ RMX

The power of groove production

Stylus RMX is the first product to offer the combined power of Groove Control™ with Spectrasonics Advanced Groove Engine (S.A.G.E.™) giving you dramatic new control over groove production. Dozens of new features include a completely redesigned interface, a new 7.4 GB core library of cutting edge grooves and sounds produced by Eric Persing, and the ground-breaking, always changing Chaos Designer™. Expand Stylus RMX with 9 new S.A.G.E. Xpanders, featuring live drums, percussion, remix elements, and more. The ultimate real-time groove module for DP!

IK Multimedia Sonik Synth™ 2.0

Synth Workstation Plug-in with 8.5GB Sample Library

Imagine creating new and unique sounds from a combination of traditional instruments, one-of-a-kind acoustic textures and classic synth sounds, all in a plug-in. Sonic Synth 2 gives you thousands of samples from its 8.5GB sound set developed by Sonic Reality which is powered by the flexible synthesis and effects capabilities of IK Multimedia's SampleTank engine. Includes orchestral soundscapes, ethereal vocal layers and wine glasses, plus traditional keyboards, guitars, drums and ethnic instruments and a comprehensive selection of analog and digital synth sounds. Sonik Synth is the perfect way to bring sound of a powerful synth workstation to your Digital Performer desktop.



(800) 222-4700
www.sweetwater.com



Authorized Reseller

Sweetwater
music technology direct™

Want to expand your MOTU studio?

BIAS Peak™ 4.1

Mastering and Restoration Edition

Peak 4.1 plus SoundSoap Pro and SuperFreq. Imagine the world's most popular stereo audio editing, processing, and CD mastering program for the Mac, combined with unparalleled noise reduction and restoration technology — all at a jaw dropping low price. You get Peak 4.1 (including ImpulseVerb, Sqweez, Vbox SE, Jam 6, SFX Machine LT, and more), SoundSoap Pro (combines four state of the art restoration and noise reduction tools in a single plug-in), and the SuperFreq suite of mastering EQs all in one great package. Launch Peak directly from DP4 for more editing and processing power. Run SoundSoap Pro within DP4 or in Peak as an AU plug-in. For the very best in sample editing, batch processing, file conversions, loop creation, sound design, restoration, and Redbook CD mastering on OS X, pick up the Peak 4.1 Mastering and Restoration Edition today — the perfect mastering and restoration companion for DP4!



Glyph GT 051™

High Performance Desktop Hot Swap FireWire Hard Drive

Perfect storage for a PowerBook/Traveler-based studio, the GT 051 tabletop chassis works with highly portable, Seagate 7200 RPM-equipped GT Key hot-swappable drives, available in capacities up to 400GB. Using Integrity™, Glyph's proprietary FireWire hot-swap technology, you can swap drives without rebooting your computer or restarting drives. GT Keys are housed in sound-dampening metal for ultra quiet operation. With a stainless steel fan-cooled enclosure, the GT 051 has a built-in power supply and is rack-mountable. The GT 051 comes standard with a three-year warranty, while GT Keys carry an additional overnight advance replacement warranty for the first year.



PreSonus Central Station™ A Console Master Section Without the Console!

The PreSonus Central Station is the missing link between your MOTU recording interface, studio monitors, input sources and the artist. Featuring 5 sets of stereo inputs (3 analog and 2 digital with 192kHz D/A conversion), the Central Station allows you to switch between 3 different sets of studio monitor outputs while maintaining a purely passive signal path. The main audio path uses no amplifier stages including op amps, active IC's or chips. This eliminates coloration, noise and distortion, enabling you to hear your mixes more clearly and minimize ear fatigue. In addition, the Central Station features a

complete studio communication solution with built-in condenser talkback microphone, MUTE, DIM, two separate headphone outputs plus a cue output to enhance the creative process. A fast-acting 30 segment LED is also supplied for flawless visual metering of levels both in dBu and dBfs mode. Communicate with the artist via talkback. Send a headphone mix to the artist while listening to the main mix in the control room and more. The Central Station brings all of your inputs and outputs together to work in harmony to enhance the creative process and ease mixing and music production.



Gator GRC-Studio-2-Go™ Road-worthy case for your MOTU gear

The GRC-Studio-2-Go is a road-ready ATA style 2U rack case constructed of rugged Polyethylene with an extra, plush adjustable laptop compartment with web strap tie-downs for extra protection. Permanently connect your PowerBook, Traveler and rack gear through an accessory hole between compartments — convenient!



Apple AppleCare™ Extend the life of your PowerBook

Of course, the tech support wizards at Sweetwater can help you with any operational issues you might encounter, but if you want complete peace of mind, the AppleCare Protection Plan is the perfect insurance policy. No matter what dangers may meet your portable rig on the road, with AppleCare, you're totally protected.



Call the DP 4.5 and MOTU experts.

Mackie Onyx Mixers with Optional Firewire Interface

High-quality compact mixers with direct connection to your studio

When you're on the road and looking to record a full band, the Onyx series of mixers from Mackie is the perfect complement to your MOTU Traveler. Whisper quiet and built like a tank, Onyx mixers feature an all-new mic preamp design capable of handling virtually any microphone. With the optional Firewire card, you can connect an Onyx mixer to your laptop with a single Firewire cable and have all the extra mic preamps and line inputs you need to capture every drum mic, vocal mic, individual synth output and DI the band throws at you. Since Digital Performer works seamlessly with multiple Core Audio devices, configuring a Traveler/Onyx system is a snap.



Mackie HR-series Active Studio Monitors

Nearfield monitors for your MOTU studio

Mackie's HR-Series Active Studio Monitors are considered some of the most loved and trusted nearfield studio monitors of all time, and with good reason. These award-winning bi-amplified monitors offer a performance that rivals monitors costing two or three times their price. Namely, a stereo field that's wide, deep and incredibly detailed. Low frequencies that are no more or less than what you've recorded. High and mid-range frequencies that are clean and articulated. Plus the sweetest of sweet spots. Whether it's the 6-inch HR-624, 8-inch HR-824 or dual 6-inch 626, there's an HR Series monitor that will tell you the truth, the whole truth, and nothing but the truth.

Mackie Control Universal and Extender

Automated hands-on control for the DP studio

Imagine the feeling of touch-sensitive, automated Penny & Giles faders under your hands, and the fine-tuned twist of a V-Pot™ between your fingers. You adjust plug-in settings, automate filter sweeps in real-time, and trim individual track levels. Your hands fly over responsive controls, perfecting your mix — free from the solitary confinement of your mouse. Mackie Control delivers all this in an expandable, compact, desktop-style design forged by the combined talents of Mackie manufacturing and the MOTU Digital Performer engineering team. Mackie Control brings large-console, Studio A prowess to your Digital Performer desktop studio, with a wide range of customized control features that go well beyond mixing. It's like putting your hands on Digital Performer itself.



Authorized Reseller

Your personal Sweetwater Sales Engineer offers much more than just a great price. They do the research, day in and day out, to ensure that you'll fine-tune your system to fit your exact needs.



Sweetwater

music technology direct™

Fax (260) 432-1758 • 5335 Bass Road, Fort Wayne, IN 46808

(800) 222-4700

www.sweetwater.com

FREE SHIPPING!
NO MINIMUM PURCHASE! NEARLY EVERY ITEM QUALIFIES



World Radio History



by Mitch Gallagher

Room with a VU

STUDIO NAME: Massive Mastering

CONTACT: www.massivemastering.com

LOCATION: Chicago area, IL

KEY CREW: John Scrip (owner, engineer); Travis McIver (assistant, apprentice engineer)

SOURCE PLAYBACK: TASCAM DV-RA1000, DA-30mkII, Alesis Masterlink ML9600, TEAC 1/4", Sony cassette, MiniDisc; Sensory Science DVD/hi-fi VHS

MONITORS: Bowers & Wilkins (B&W) M-802 Series 3, Wharfedale Diamond Series 8.2, Bryston 4B amplification, Velodyne and Sony subwoofers, PreSonus Central Station, Cobalt cabling

CONVERTERS: Lavry Engineering LE 4496 "Blue" series M*Sync, M*AD 824, M*DA 824; Apogee Mini-Me, Lynx AES router

OUTBOARD: Manley Variable-Mu limiter with factory mastering modifications, GML Model 8200 parametric, Crane Song STC-8M, Art Pro VLA

COMPUTERS: Sonica-X R340 P4/3.4Ghz Pentium Prescott, "FrankenPuter" AMD Athlon 2400, Plector Premium Series drives (approximately 1/2-terabyte drive space)

SOFTWARE: Samplitude Professional, Universal Audio UAD collection plug-ins, PlexTools Professional

ROOM TREATMENTS: Modular Acoustics, Auralex, Illbruck

STUDIO NOTES: Keep the quality high and the overhead low. That's mastering engineer John Scrip's philosophy. Like many "commercial" studio operations, his former partner was

paying high overhead to support a large building, receptionists, and fancy client amenities — yet more and more of his mastering business was coming in via mail — few clients were attending the mastering sessions. "Some of my clients may remember the old JEM Complex in Niles, IL, with custom lighting, hot and cold running receptionists, and a 400 square foot lounge with a Sony 60" TV and a selection of video games," he relates. "But most of my mastering clients *won't* remember, because they'd send in their tapes, I'd do the work, and send them their master discs. It wasn't a lack of business that led us to give up that facility, rather it was a surplus of space and assets that were tied up for nothing. I was thinking 'Hey, I could almost do this out of a stuffy little office and no one would care.' Well, guess what . . . now I work from a cozy little spot with no receptionist, no foyer, and no custom wall sconces. (I do kind of miss those sconces.) You'd be surprised how much you can lower your rates when you slash that much off your operating expenses."

As audio technology has changed, Scrip has changed his gear arsenal as well. However, he keeps an open mind as to which technology to apply to a given situation. "I've been at this for a while in several capacities and several locations, with gear ranging from 'toys' to the top-of-the-line. As most mastering studios have gone more DAW-based, I have kept up-to-date. But most projects here go through some sort of analog processing along the way. There's just no substitute for great hardware."

HEY, EQ READERS. WANT US TO FEATURE YOUR STUDIO? SEND PICS AND INFO TO eq@musicplayer.com.



At any volume, everywhere

RELIABLE

Genelec, the benchmark in active reference monitoring, offers the most complete line of active reference monitors for professional audio, no matter what type of audio you are producing.

The new pathbreaking 8000 MDE™ Series deliver powerful, extended resolution and realism - from electrical signal to acoustic event. With extended frequency response and lower distortion across their entire bandwidth, the 8000 Series offer monitoring precision with no tolerance for error.

Combined with Genelec's 7000 LSE™ Series subwoofers, accurate reference systems can be easily integrated into nearly any environment, whether you are working in stereo or surround.

Contact us for system specification and a demonstration using the complete range of Genelec 7000 and 8000 Series monitoring solutions in your room.

www.geneleccusa.com

8000 Series



8030A's shown in optional silver finish

International inquiries: Genelec Oy, Olvitie 5, FIN-74100, Iisalmi, Finland
T +358-17-83881, F +358-17-812267 Email genelec@genelec.com
In the USA: Genelec Inc., 7 Tech Circle, Natick, MA 01760
T 508.652.0900, F 508.652.0909 Email genelec.usa@genelec.com
In China: Genelec China Rep. Office, SOHO New Town,
88 Jianguo Road, D-1504, Chaoyang District, Beijing 100 022, China
T +86 10 8580 2180, F +86 10 8580 2181 Email genelec.china@genelec.com

GENELEC®

TRAVELER™

BUS-POWERED HIGH-DEFINITION FIREWIRE AUDIO INTERFACE



Try not to get sand in your hard drive



MOTU
motu.com

World Radio History