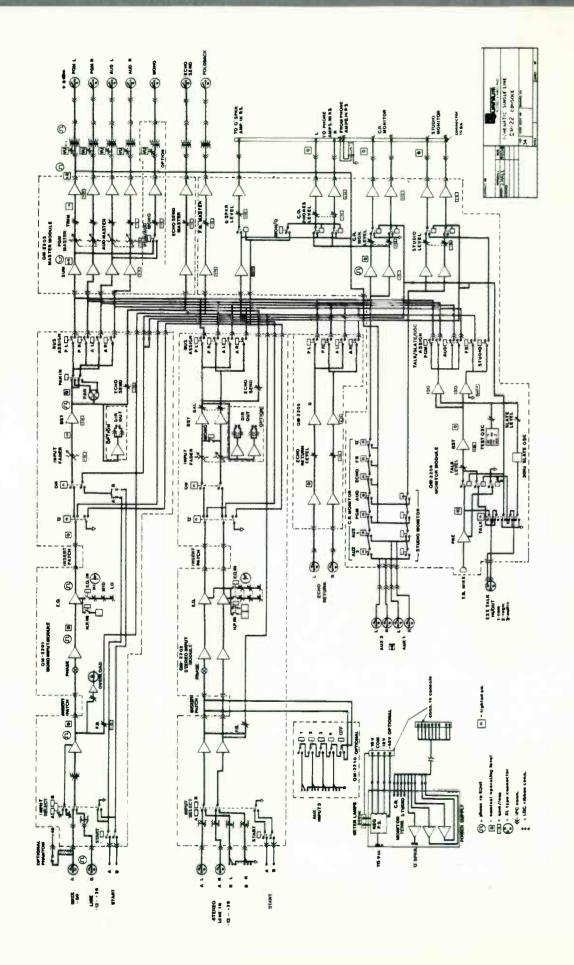
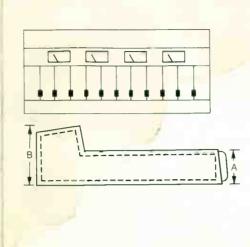
SCHEMATIC



DIMENSIONS



	22/8	22/14	22/20	22/28
Width (no sides): Width (with sides): Depth: Height A: Height B:	217%" (556mm) 2314" (591mm) 26" (660mm) 45%" (117mm) 9" (229mm)	337/8" (860mm) 351/4" (895mm) 26" (660mm) 4%" (117mm) 9" (229mm)	45%" (1165mm) 47¼" (1200mm) 26" (660mm) 4%" (117mm) 9" (229mm)	67" (1702mm) 691/8" (1756mm) 26" (660mm) 45/8" (117mm) 9" (229mm)
Console: Net Weight:	66lbs (30kg)	98lbs (45kg)	124lbs (56kg)	166lbs (75kg)
Power Supply Net Weight:	22lbs (10kg)	22lbs (10kg)	231⁄2lbs (11kg)	231/2lbs (11kg)
Shipping Weight (Packed):	125lbs (57kg)	175lbs (80kg)	250lbs (114kg)	300lbs (136kg)



NORTH/SOUTH AMERICA

1905 RIVERSIDE DRIVE GLENDALE, CALIFORNIA 91201 U.S.A. TEL 818-841-0970 TWX 910-333-8535 FAX 714-838-9619

INTERNATIONAL

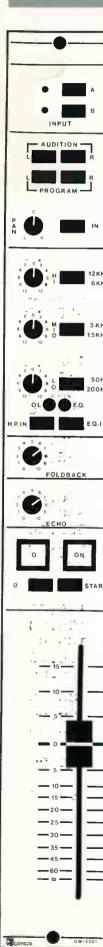
948 GREAT WEST RD. BRENTFORD, MIDDLESEX, TW89ES ENGLAND TEL 01-568-6089 TLX 893372 FAX 01-847-0215



THE QS 22 RANGE OF BROADCAST/PRODUCTION AUDIO CONSOLES FROM 8 TO 28 INPUT MODULAR CONFIGURATIONS



SERIES 22



2201 MONO INPUT MODULE

A/B SELECT "A" input for low impedance microphone, "B" input for line level (-10 to +10 dB). Trimpots allow 20 dB range adjustment. Input is transformercoupled, balanced and floating.

BUS ASSIGNMENT Buses "1" and "2" are PROGRAM left and right, buses "3" and "4" are AUDITION left and right. Buses may be used individually for multitrack recording.

PANPOT Pans between left and right channels of program or audition buses.

EQUALIZER (optional) Three band design, each band switchable between two frequencies, 12 dB BOOST/ATTEN-UATE range. EQ IN silently switches equalizer to allow program comparison with and without equalization. Red LED indicates when equalizer is in circuit. 100 Hz high-pass filter HP IN allows filtering of low frequencies.

OVERLOAD Yellow LED indicates input peaks above preamp's headroom.

FOLDBACK Auxiliary prefader send used as headphone feed or as additional echo or effects send.

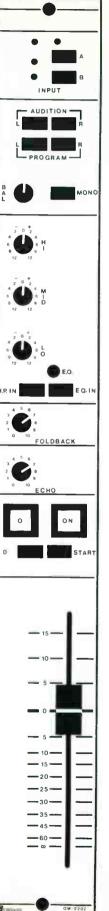
ECHO Post fader send for external reverberation or echo unit. May also be used as headphone feed or effects feed.

CUE SWITCH Mutes module output. Switches signal to cue bus for monitoring through control room speaker or through cue amplifier and external speakers

PHASE SWITCH Inverts phase of the input signal (180°). On stereo module (2202) only the left channel is inverted

no model was

FADER Penny & Giles Iong-throw (4") high-quality conductive plastic fader. Provides long life, noise-free operation. Scale range + 15 to - 60 and 00.



2202 STEREO INPUT MODULE

A/B SELECT Selects between two pairs of stereo, line-level (-10 to +10dB) input signals. Inputs are active balanced with individual 20 dB trimpots.

BALANCE Adjusts level differences between the left and right channels of the stereo input signal.

MONO Interconnects the left and right channels of the module, after the equalizer/fader but ahead of the balance control.

EQUALIZER (optional) Three fre-quency design. BOOST/ATTENUATE controls have a 12 dB range. EQ IN switch silently switches the equalizer to allow program comparison with and without equalization. A red LED indicates when the equalizer is switched into the circuit. An additional 100 Hz high-pass filter in/out switch HP IN next to the EQ IN switch allows filtering of low frequency rumble and hum.

FOLDBACK Auxiliary send signal derived before module fader. Used as headphone feed or as additional echo or effects send

ECHO post fader send for feeding an external reverberation or echo unit. Signal is composite of the left and right channels.

CHANNEL ON/OFF Silently switches the module on and off with fader adjusted to a preset level. For mono modules (2201), control room or studio speakers are automatically muted depending upon internal strapping.

START Momentary pushbutton for starting tape machine or turntable. Logic is coupled through the input A/B switch to start selected machine.

FADER Penny & Giles long-throw (4") high-quality conductive plastic fader. Provides long life, noise-free operation. Scale range +15 to -60 and ∞ .



CHO SEND MASTER

MONO (optional) Provides composite mono output signal from the stereo program or audition bus. Separate balanced line output with vu meter.

2205 MASTER MODULE

ECHO SEND MASTER Controls output send level to reverberation unit. Output is a mono mix of all module echo sends.

PROGRAM TRIM Vernier controls for left and right program bus output level.

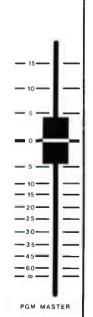
0 0 PROGRAM TRIM

AUDITION master level control for the AUDITION bus. Two vernier controls allow adjusting left and right output levels.





ECHO RETURN Two echo return pots may be used individually or as a stereo pair for echo return. Bus switches assign returns to program or audition buses. Returns may also be used as additional line level inputs without equalization.



Quantum 0 N-2205

PROGRAM MASTER Dual-channel, conductive plastic fader controls PROGRAM bus output level.



100

2206 MONITOR MODULE

TALKBACK MICROPHONE Electret

slating.

and cue sends.

signa

condenser microphone for talk-back and

OSCILLATOR Four frequency oscillator

feeds bus outputs for test and calibration

of lines, tape machines etc. 30 Hz slating

oscillator provides marker tones under

voice slates for quickly locating taped

FB AND Q MASTERS Control output

are mono mixes of all module foldback

TALKBACK Pushbuttons allow routing

the output of the talk-back microphone to

program and audition bus as well as the

foldback (headphone) bus and studio

monitor speaker. An external talkback

alk-back circuit from a remote location

for communication. Logic for this func-

tion is provided through an XLR-type

connector on the rear of the console.

pushbutton selector for headphone

MONITOR PHONES Level control and

monitoring of cue bus or the control room

monitor selector switch. Console muting

circuits do not interrupt the headphone

STUDIO MONITOR Selects program

bus, audition bus or auxiliary inputs for

monitoring in the studio. All studio mike

modules must be off in order to unmute

the studio monitors. Studio monitor

speaker is also used for talkback.

provision allows line level input to the

level of foldback and cue buses. Both

selections during rewind or fast forward.

FEATURES

GENERAL

INPUT MODULES

fike inputs transformer balanced and floating.
ine inputs differentially balanced. (Not 2201)
Peak overload indicators on mike preamps.
Remote start logic for cart and tape machines.
ndividual MIKE/LINE A/B switching.
an-pot and balance controls.
Prefader audio cue circuit.
hase inverting switch.
Penny & Giles, 4" (long throw), conductive plastic linear attenuators
nput level trim vernier controls (20 dB range).
2) Auxiliary feeds: Echo and Foldback.
-band equalizer with IN/OUT switch.
00 Hz high-pass filter

OPTIONS Metered MONO combine output group Direct mono/stereo balanced outputs from every input. 48 volt phantom powering on each mike input. Digital clock/stop timer. Custom features accommodated. Balanced auxiliary 4-line input selector panels. Extender card. Spare parts kit 9-foot power supply extension cable.

SPECIFICATIONS

GENERAL		
Frequency response:	20 Hz to 20,000 Hz	± 1 dB (re 1 kHz)
Equiv input noise:	≦ – 127 dBm (20 H	Iz to 20,000 Hz)
Output S/N ratio:	≧80 dB	
Output distortion:	≦0.1% THD up to +	24 dBm. (30 Hz to 20 kHz)
Slew rate.	≧10 V/μs.	
Power Requirement:	100-120/200-240 Va	c (switchable), 50/60 Hz,
Power consumption:	22/8 1 VA, 22/14	1 3 VA, 22/20 2 VA
Channel separation.	Main outputs Input to input	80 dB at 1 kHz, below noise level
Overall gain:	103 dB typical	
INPUTS		
Mike inputs.	Transformer balance For 200 ohm nomina (actual input impeda – 60 dB nominal inp 20 dB gain vernier	l impedance sources, ince 1200 ohms broad band)
Line inputs:	Differentially balance Actual input impedar Nominal input level range20 dB to +	nce ≧15 kohms, I 4 dB, Acceptable level
Echo return inputs:	Differentially balance Nominal level + 4 dE Input impedance ≧	3,

EQUALIZERS	
2201 MONO Modules	LOW 50 Hz shelving or 200 Hz peaking, ± 12 dB. PRESENCE 1500 Hz or 3000 Hz ± 12 dB HIGH 6 kHz peaking or 12 kHz shelving ±12 dB
2202 STEREO Modules	LOW 100 Hz shelving ±12 dB PRESENCE 1 kHz ±12 dB HIGH 10 kHz shelving ±12 dB
High pass filter	12 dB/octave slope, (-3 dB point at 100 Hz)
OUTPUTS	
Main & aux outputs	Transformer balanced and floating, + 8 dBm nominal level (strappable for other nominal levels) + 24 dBm max
Monitor outputs	Control room and studio_unbalanced, 0 dB nominal, 15 ohm source impedance, +22 dBm max
HS and Cue Speaker	5 watt, 8 ohm self-contained amplifier.
Optional outputs:	Direct mono/stereo output from each input, Differentially balanced, +24 dBm max.
CONNECTORS	
	All inputs Female Q-G (XL) type, ("B" inputs of 2202 stereo modules ribbon con- nector) All bus outputs, foldback, echo send, male Q-G (XL) type, Monitor, HS, cue facilities Barrier strip on power supply. Direct mono/stereo outputs (optional-ribbon connectors, Auxiliary

inputs 2210 (option). ribbon connectors. Start

contacts and "On Air" light logic ribbon

Specifications subject to change without notice.

connectors



- O - 270

CONTROL ROOM MONITOR Large, illuminated pushbuttons assign control room monitor to console outputs or to the auxiliary inputs such as tape machines, lines etc. Calibrated, dual-channel pot sets monitor level. Monitor output is muted during talkback or when control room microphone is on.

June 1, 1986



BROADCAST/PRODUCTION ON-AIR CONSOLE

MAIN FRAMES: (4-output SERIES 22)

22/2222-input main frame - no input modules (8+14)6,60022/2828-input main frame - no input modules (14+14)7,400	22/088-input main frame - no input modules\$ 3,90022/1414-input main frame - no input modules4,70022/1616-input main frame - no input modules (8+8)5,10022/2222-input main frame - no input modules (8+14)6,60022/2828-input main frame - no input modules (14+14)7,400	0.00 0.00 0.00
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MODULE PRICES:

2201	Mono input module with 6 frequency EQ	425,00
2201-A	As above but without EQ	375.00
2202	Stereo line input module with 3-freq. EQ	475.00
2202-A	As above but without EQ	425.00

AVAILABLE ACCESSORIES:

01 02 03 04A 05 06 07 08	Voltage Controlled Amplifier (per input module) Spare blank cover panel for one module position Mono output option - metered Digital clock/timer with edge panel controls Spare parts kit Service extender card Instruction & Service Manual (spare) Phantom Powering:	TBA 15.00 350.00 200.00 500.00 100.00 35.00
	08-1 22/08 console 08-2 22/14 console 08-3 22/16 console 08-4 22/22 console 08-5 22/28 console	300.00 350.00 380.00 420.00 500.00
09	Direct output preparation - per console:	
	09-1 22/08 console 09-2 22/14 console 09-3 22/16 console 09-4 22/22 console 09-5 22/28 console	125.00 150.00 165.00 180.00 220.00
10 11 12 13	Direct output per channel of input module 2210 4-line auxiliary input switch assembly Additional 2210 assemblies 5.4m (18') interconnecting cable set (two)	60.00 200.00 155.00
	(replacing standard 2.7m [9'] set)	25.00
14	Audition vu meters follow Control Room monitor selector switch	100.00
15	Audition stereo P&G linear fader	100.00
16	(with 2205-B Monitor Module)	350.00
10	4 P&G program/audition submaster faders (two each on two panels)	500.00
Terms:	As arranged; f.o.b. factory, Glendale (Los Angeles), Prices subject to change without notice Quantum Audio Labs, Inc. • 1905 Riverside Drive • Glendale, California 91201 TEL 818/841-0970 • TWX 910-333-8535 • FAX 714/838-9619 World Radio History	CA

World Radio History



May 12, 1986

Mr. Barry Mishkind Southwestern Wireless Comm. Box 13684 Tucson, AZ 85732

Dear Mr. Mishkind,

Thank you for stopping by our booth at the NAB in Dallas and your interest in the Quantum Audio Labs QS-22 product line. Please find the enclosed brochure and price list to better acquaint yourself with our product.

We will be calling soon to see if we can be of further assistance to your audio needs.

Sincerely,

QUANTUM AUDIO LABS, INC.

Stuart J. Dunford General Manager

Encl: Brochure Price List Press Release

SJD/sb



THE REPORT OF THE

World Radio History



FOR IMMEDIATE RELEASE

Contact: Dan Hair Communications Manager

> TEL: (714) 838-8833 TWX: 910-333-8535 FAX: (714) 838-9619

PALTEX Announces the Acquisition of QUANTUM AUDIO LABS, Inc.

PALTEX Editing & Production Systems Ltd. of London, England & Tustin, California announced today that they have acquired QUANTUM AUDIO LABS, Inc. of Glendale, California. Roger L. Bailey, Chairman of PALTEX said, "QUANTUM design and manufacture a range of high quality, inexpensive Audio Consoles for the Broadcast and Post Production market and already have an excellent customer base including many existing PALTEX user's. It is therefore a natural extension for us to expand into the Audio Console market as part of our Post Production systems business.

As an International company with worldwide sales and service, PALTEX will now develop the export market for QUANTUM, for example, we have already begun to supply a number of consoles to the Peoples Rupublic of China and Europe.

The QUANTUM acquisition will also allow us to jointly enhance the integration and automation of today's video and audio post production techniques", Bailey concluded.

PALTEX, a British company, manufacture high technology post production equipment in Tustin, California for the World Market.

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