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**Volume 56**  
**JANUARY TO DECEMBER 1980**

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Practical Wireless, December 1982
Aerials and aerial accessories are very definitely among the most popular topics covered in Practical Wireless. In response to requests from readers, we’ve reprinted a selection of articles from the past three years, plus two new features—one by Ron Ham on v.h.f. propagation, the other describing the “Ultra-Slim Jim”, a new version of that most popular 2-metre aerial design by Fred Judd.

Out of Thin Air has 80 pages, 295 x 216mm, and is available from Post Sales Department, IPC Magazines Ltd., Lavington House, 25 Lavington Street, London SE1 0PF, price £1.50 including postage and packing to UK addresses, or £1.80 by surface mail overseas. Please ensure that your name and address are clearly legible.
on the air

tures, is put in a nutshell and without doubt is easy for the TV buff to understand.

For the enthusiast who just uses equipment, the sections on Data Transmission, Closed Circuit TV and Video Recording should be of great interest and the Bands IV and V DXer may well find the pages devoted to antennas and propagation and the use of a test card to adjust receivers, of great value. To sum up I would say that this book is good value at £4.35 (soft cover) and is an important key to the better understanding of more specific technical literature.

Station Reports

Further to the use of the word Tagesthemen, which I mentioned in our October issue, came two replies, the first from John Coulter, Winchester, who said “Tagesthemen means ‘topics of the day’” and the second from Richard Hunt, Tadcaster, who explains. “The ‘FIRST PROGRAMME’ of German TV, ARD has three news bulletins nightly. The first two, usually about 1615 and 2000CET respectively, are entitled ‘Tagesschau’ and the third bulletin, around 2230CET, is entitled ‘Tagesthemen’ and lasts about half an hour with more in-depth coverage than the other two which last some 15 minutes”. Richard also told me that British TV programming times are more rigid than German, so the times he quotes may vary, up to three-quarters of an hour per day. My thanks to John and Richard for their trouble, such information is valuable to many readers.

“Tagesthemen” means ‘topics of the day’ and the second from Richard Hunt, Tadcaster, who explains. “The ‘FIRST PROGRAMME’ of German TV, ARD has three news bulletins nightly. The first two, usually about 1615 and 2000CET respectively, are entitled ‘Tagesschau’ and the third bulletin, around 2230CET, is entitled ‘Tagesthemen’ and lasts about half an hour with more in-depth coverage than the other two which last some 15 minutes”. Richard also told me that British TV programming times are more rigid than German, so the times he quotes may vary, up to three-quarters of an hour per day. My thanks to John and Richard for their trouble, such information is valuable to many readers.

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Fig. 13: EA8AHK

Peter Lincoln

Fig. 14: SSTV from Norway

Peter Lincoln

India, “Whenever it was bright, sunny and hot, I received TVDX signals, but when it rained there were no signals. However, the same was not true this year”. An interesting observation Rana, no doubt you will do another comparison next year and let us know the result.

Can anyone help television specialist Ron Weller with a manual or any information for a 1950s Telequipment Serviscopc, if so, drop him a line at 203, Tarring Road, Worthing, Sussex.

Have Alba, model CB H2, 40-channel hand held f.m. CB transceiver. Would exchange for a Sinclair ZX81. Tel: 021-356 6454 (Birmingham).

Have Yaesu FRG-7700M receiver, memories version, c.w., matching tuner, v.h.f. converter model E and active antenna unit, all as new. Would exchange for modern radio/music centre or video recorder to equivalent value. Details in writing please. B. Kenneford, 2 Mill Lane, Shoreham-by-Sea, W. Sussex BN4 5AB. 7436

Have ZX Spectrum computer 48K. Would exchange for 144MHz 10W in 100W out amplifier with i.f. switched pre-amp—must be working. Tel: Bristol 555696, ask for G6MBH or leave message and telephone number.

Have electric bass guitar, with case, leads etc. Also Tandy four channel 144MHz scanner. Would exchange for MMT432/28 transverter, 144MHz linear + p.s.u. (10W input) or MMK1296/144 receiver converter/pre-amp, w/h.v. A.G. Robson GM8YIK, 38 Glebe Park, Duns, Berwickshire.

Have Nato R-444 v.h.f. search receiver with tuning units 36MHz-12GHz, spectrum analyser, Marconi RCI bridge, 35mm film viewdata, RTTY converter using an oscilloscope, signal generators covering 10Hz-4GHz. Would exchange all for receiver 500kHz-30MHz. Bob Wright, 249 Sandy Lane, Hindley, Wigan, Lancs. Tel: 55948.

Have Datong D70 Morse tutor. Would exchange for 144MHz linear 10W input or Fairing for Yamaha 250cc motorcycle. G8XCL (NOT OTHR) Tel: Lydd (Kent) 20954.

Have FRV-7700B converter to work with FRG-7700 or any general coverage receiver. Covers 118-135MHz, airband, 50MHz band and 140-150MHz. Would exchange for 432 or 1296MHz TV transmitter or w.h.v. Tel: 0942 601216 evenings (Leigh).

Have Skyleader 35MHz f.m. radio control outfit plus 3 model engine kits, also Super 8 sound projector, two cameras, one Super 8 and one Standard 8. Would exchange for Kenwood TR2500 or similar 144MHz handheld with NiCads and charger. Tel: 074 570 469 (Clwyd) evenings only.

PW “SWAP SPOT”

Got a camera, want a receiver? Got a v.h.f. rig, want some h.f. gear to go with your new G4? In fact, have you got anything to trade radio-wise?

If so, why not advertise it FREE in our new feature SWAP SPOT. Send details, including what equipment you’re looking for, to “SWAP SPOT”, Practical Wireless, Westover House, West Quay Road, Poole, Dorset BH15 1JG, for inclusion in the first available issue of the magazine.

A FEW SIMPLE RULES: Your ad. should follow the format of those appearing above; it must be typed or written in block letters; it must be not more than 40 words long including name and address/telephone number. Swaps only—no items for sale—and one of the items MUST be radio related. Adverts for ILLEGAL CB equipment will not be accepted.

Practical Wireless, December 1983
**TRIO**

Trio have just introduced some wonderful new models. There’s the TVR 4000A, the two-in-one mobile. It combines 70cms and 2m in one box. There are far too many features to describe here so why not come in and try it for yourself?

For those who would prefer to have two separate radios, how about the new super slim mobiles — the TM 201A and the TM 401A. Both are attractively styled with a host of features that would make a trip to see them well worth the effort.

We have these models in stock and would be more than pleased to demonstrate them to you.

Trio have also just introduced a superb new range of accessories. We can now supply Trio SWR bridges, power meters, mobile microphones, headphones, microphone adaptors etc. etc. The entire range has the Trio stamp of quality.

**Consult the professionals**

You’ll find all you need at Photo Acoustics. We can offer help and advice, the chance to try out the gear and financial facilities too. We offer Creditcharge instant Finance and accept Access and Barclaycard. Part exchange welcome.

Four minutes from the M1 Exit Junc. 14. Head for the High St. Newport Pagnell. We’re at No. 58. Parking at rear, opposite, or round the corner in Silver St.

**Photo Acoustics Ltd.**

*OF NEWPORT PAGNELL*

Prices subject to alteration without notice.

---

**Ex-Gov.** 27ft telescopic aerial close to 5ft. Good condition, complete with all base & fittings £45. P&P paid. Callers welcome £25.

Pye Pocketfone Nightcall for PF1/TX/RX. New boxed £17.00.

 Whip aerial Ex-Gov. 4ft collapsible £1.00.

Aluminium masts 4ft × 2in dia poles. Height 50ft, push in, complete in bags. Ex-Gov. stakes, ropes, base. Good condition £45.00. Callers £35.00.

Crystals HCGU Ex. Equip. 5,000 mc/s, 7,000 mc/s, 8,000 mc/s, 9,000 mc/s. Also Glass Crystal 100 Kc/s, to fit B7G base. All at £2 p&p paid.

Telephones — Type 706 good condition £5 p&p paid.

Small 230V fans, 4 in. × 2½ in. 2,500 r.p.m. £4.50 p&p paid.

Pye Pocketfone PF1, battery charger, 12 way with meter £10 p&p paid.

**We have also for sale the following items which are too numerous to advertise. Callers only, valves, transformers, tuning units, receivers, bases, wave-guide, scopes, plugs, sockets, power units, capacitors, aerials, headsets, cable, signal generators, BC221.**

**Opening times:**
Monday-Friday 8.30am-5.00pm, Saturday 8.30am-12am

Please allow 14 days for delivery.

A. H. THACKER & SONS LTD
HIGH STREET, CHESLYN HAY
NEAR WALSALL, STAFFS.
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**More PW Software**

The programs described in the Computing Special Feature in this issue are available on cassette for both the ZX81 and Spectrum computers. The programs on each tape are:

- "METERS" Ammeter and Voltmeter design
- "RANGE" Radio range calculations
- "QSL CARDS" Prints QSL cards
- "ANTS+FEEDS" Antenna and feeder calculations
- "DATA" Tuned circuit and coil design
- "REACTANCE" Reactance and impedance calculations

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