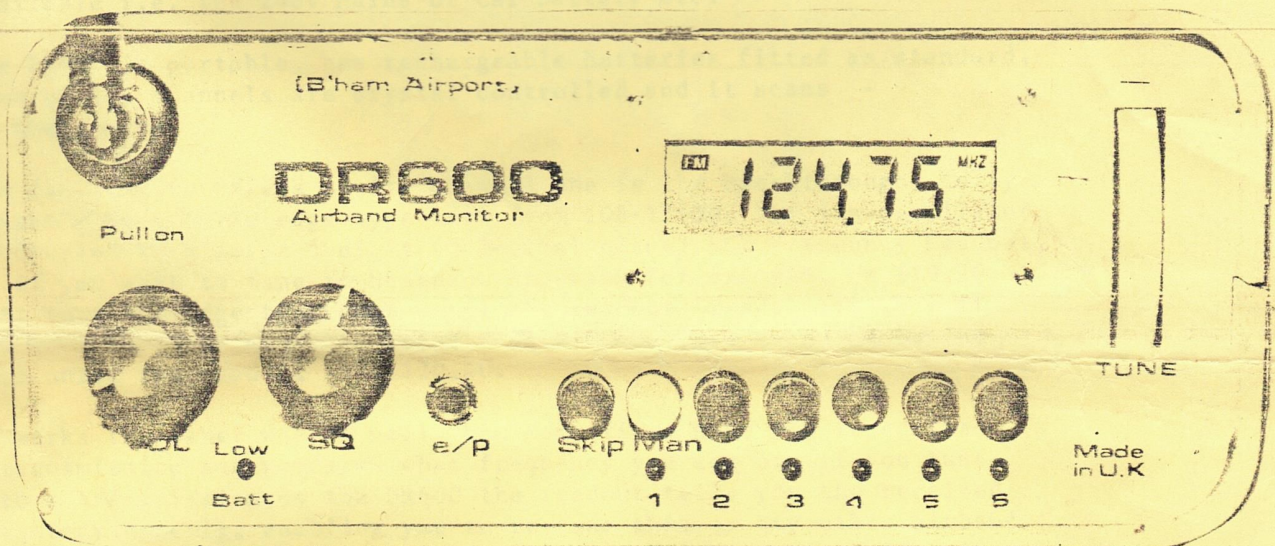


AERO HOBBY SUPPLIES

NB. Ron Swinburne can be
contacted on 021-742 0424 Shop.
or - 782 6560



INTRODUCING



HIGH-GRADE AIR-BAND MONITOR RECEIVER

FEATURES :-

RECHARGABLE BATTERIES & CHARGER INCLUDED

5 CRYSTAL CONTROLLED CHANNELS

MANUAL TUNING ON CHAN 1

ALL CHANNELS COUPLED TO A LARGE 5 DIGIT LCD
FREQUENCY READOUT

BUILT-IN WHIP AERIAL

SUPERB PERFORMANCE

Anyone who has used a tuneable airband receiver will appreciate its versatility but not its scale accuracy.

On the other hand, crystal controlled monitors are good for station accuracy but limited in the number of channels they can cover in one go, and there is the additional expense and time needed to fit different crystals.

Synthesised airbands are one possible answer for static installations where size is not important and there is ample external power supplies available i.e. the 240V Mains or Car Battery etc.

The DR600 is portable, has rechargeable Batteries fitted as standard, five of its channels are crystal controlled and it scans - so whats new?

The facility it offers on its channel one is the breakthrough, fully tuneable by a large edge type knob from 108-136MHz but its oscillator is coupled to a large 5 digit (2 Decimal place) LCD Frequency Readout, so if you want to tune to Heathrow Approach for example, on 119.20 just turn the edge type knob until the readout 'reads' 119.20 - if you want to tune into the Director on 120.40, just turn the tuning knob until the readout says 120.40.

It works the other way as well, how many times have you tuned into a transmission and wondered what frequency you are on, if you tune into a transmission on the DR600 the readout tells you the received frequency exactly, enabling you to re-tune this or any other airband frequency accurately without a transmission being on to confirm it.

The DR600 is our most popular radio - and has proved to be a most reliable radio.

We have itemised some of its features but should you have any queries or questions regarding any aspect of the DR600 - we are only a phone call or a letter away.

Now read on



GENERAL SPECIFICATIONS:-

CASE:- Mild Steel Shells - Front and Rear Panels in Aluminium - All covered with bonded vinyl for strength and durability. Just wipes clean with a damp cloth. Colour:- Black.

SPEAKER:- 3 x 8ohm Internal Speaker fitted in top shell.

POWER SOURCE:- Internal by 8 of AA size Ni-Cads, external power socket provided for Input voltages in the range of 13.8V to 20V AC or DC absolute Maximum input voltage not to exceed 20Volts.

ANTENNA:- Built in telescopic aerial - standard car aerial socket provided for connecting various external aerials if desired.

TUNING:- Main tuning dial control is coupled to a 5 digit LCD Frequency Readout (2 Decimal places).

CRYSTALS:- Type: HC 25U Formula: $\frac{\text{Desired frequency} + 10.7\text{MHz}}{3}$

DIMENSIONS:- Approx 7 (180mm) Wide by 3 (76mm) High by 5.5 (140mm) Deep.

WEIGHT:- Approx 3½ Lbs (1½ Kgms) Fully equipped.

PRICE:- £199.00 which includes:-

VAT, Ni=Cad Batteries and Charger - Carry Strap - 5 crystals of your Choice
Dynamic Earpiece - and of course 12 months no-nonsense Guarantee.

ELECTRICAL SPECIFICATIONS:-

FREQUENCY RANGE:- 108-136MHz A.M. Detection (AIRCRAFT BAND)

RECEIVING RANGE :- Single Conversion (10.7Mhz I.F)

SENSITIVITY:- Half micro-volt for 10db S+S/N (112-136MHz).

SELECTIVITY:- 6db Band 25KHz and 40db Band 140KHz (+ 70KHz gives effective cut off of strong adjacent channel transmissions).

AGC :- Operates on R F Amp I.F Input point and on main I.F Amplifier giving a very constant audio output signal from the weakest to the strongest signals.

AUDIO OUTPUT POWER:- 800 Milliwatts Max (8 to 35ohms).

POWER CONSUMPTION:- Rated output (Squelch off) 75-150M/A
Stand by: Squelch on 36M/A.

AVERAGE BATTERY LIFE:- At continous rated output approx 4 hours . Normal average useage approx 24 hours between charges

Remember: The radio can be used whilst charging is taking place and the radio cannot be over-charged so no damage can occur.

FEATURES:-

- * Large 10.5mm 5 Digit LCD Frequency Readout.
- * Full Coverage of Airband at the turn of a Knob.
- * Combined tuning versatility and Accuracy previously not available on any other portable airband monitor.
- * Superb Performance second to none.
- * Built in Telescopic Aerial.
- * Set No 1 Channel quickly and accurately to any airband frequency (108-136Mhz) using the Manual Tune control and the 5 digit LCD Frequency Readout.
- * Set up 5 pre-set channels with crystals for your favourite 'Local' stations (5 crystals of your choice are included in the price).
- * Scan all six channels, the 5 crystal pre-sets and the manually set one, which of course you can alter quickly to a new frequency if you wish to track aircraft as they are transferred to different Controllers.
- * Fully Portable - Carry Strap Provided.
- * 12 months no-nonsense Guarantee.
- * Full repair and maintenance service on our own premises.
- * Full stock of spares always available for immediate replacement, in the unlikely event that your unit develops a fault.
- * Wide range of crystals available.
- * Use at Home, at the Office, in a vehicle (with suitable external Mag Mount Antenna) Can also be run off a car battery via a Car lead which plugs into your car cigarette lighter this does not charge the radios batteries, but does enable you to listen to the radio in your car and still have a full charge in the Batteries (providing you have charged the batteries previously of course!) if you want to have a wander around an Airfield etc.. (Car Lead Extra)
- * Works great in any light Aircraft ideal as a back up receiver in the event of an avionics failure (NOT CAA Approved for Airbourne Use).
- * None radio Glider Pilots and Balloonists will appreciate it, as they can tune in accurately to any airfield or control zone they are flying near, for essential weather and vital air traffic movements in their area.

* IDEAL RECEIVER FOR USE WITH THE SAMATRON U-VERTER:-

You can now listen to the UHF with your DR600 coupled to the Samatron U-Verter. The U-Verter works with the Manual tune facility on the DR600, which means you can tune to any frequency desired.. The readout tells you what frequency you are on in VHF and you can work out what frequency you are listening to on UHF by the conversion chart on the front of the U-Verter. Easy isn't it.

Please see seperate sheet on the Samatron U-Verter for more details.

DELIVERY TIME:-

Approx 21 days. But please telephone for confirmation of availability. Thank you.

BENCH TESTS ON DR600 AIRBAND RECEIVER

1) SIGNAL + NOISE/NOISE RATIO:-

<u>FREQ</u>	<u>INPUT MICRO-VOLTS PD</u>	<u>SIGNAL + NOISE/NOISE RATIO DB</u>
110.00	0.5 Micro-Volts	12db
118.00MHz	0.5 Micro-Volts	10db
126.50MHz	0.5 Micro-Volts	10db
135.50MHz	0.5 Micro-Volts	10db

The above figures were obtained using the Manual Tuning Mode.
A small increase of about 1db in the Signal + Noise/Noise Ratio
is obtained using crystal control.

TEST EQUIPMENT USED:-

SIG - Marconi Sig Gen TF2015 Serial Number 116942/002.
Gen - Marconi Digital Synchroniser TF2171 Serial Number 117018/033.

COMMENTS:-

The sensitivity is much greater than any receiver I have yet tested.
The actual performance when listening to low level signals would
actually indicate that very readable signals were obtained from
as little as 0.2 Micro-Volts.

R. Mansell.

CAA Licensed Avionics Engineer - Birmingham Airport.