

PROFESSIONAL MONITOR RECEIVER

AR2002

25~550MHz/800~1300MHz



VHF & UHF monitoring & surveillance

AR2002

The AR2002 receiver provides high performance monitor and surveillance reception over a wide frequency range; 25~550MHz and 800~1300MHz. The wide frequency coverage, combined with reception modes of AM, FM (wide), and FM (narrow), make the AR2002 a versatile unit for a range of applications: –

- General off air monitoring
- Spot frequency monitoring/measurement
- Selective multi frequency analysis
- Spectrum surveillance
- Detection of unwanted transmission

..... and much more.

The two frequency ranges are covered in selectable increments of 5, 12.5, or 25kHz, and any mode of reception can be used at any frequency or channel spacing.

Typical measured sensitivity (FM narrow), is better than 0.3 microvolts for 12dB SINAD, and the sensitivity is maintained across the tuning range.

Control of the AR2002 is either from a professional (non membrane) keyboard allied to a front panel tuning control which allows conventional rotary up/down tuning; or by external control, an interface outlet being provided on the rear panel of the receiver.

Twenty memory channels are provided, with easy keyboard entry and recall. Each memory channel stores frequency and mode information without any restrictions. The memories can be recalled manually, or may be automatically scanned in sequence

for unattended monitoring.

The complete frequency coverage of the receiver can be scanned in 5, 12.5 or 25kHz steps, and a further facility is the ability to search between two user programmed limits with high to low, or low to high searching.

A comprehensive search facility between two user designated frequencies is included. Two speeds of search are available as is the receiver's ability to scan frequencies from low to high, or high to low. So that nothing is missed a delay function can be switched in to cope with the slight delay pause between transmissions when listening to a two way simplex conversation. Carrying on the receiver's ability to miss nothing memory channel 1 holds the priority frequency which is monitored at 2 second intervals.

Front panel readout of information is by liquid crystal display which shows frequency, mode, memory channel number, frequency increment, delay engaged, channel lockout, etc. A bar type signal strength meter allows comparative measurements to be made, and aids in direction finding applications.

A crystal controlled real time clock is provided in the AR2002, and time readout is also by the liquid crystal front panel display.

Power requirements for the AR2002 are 12~14V DC at 0.3~0.5A, and a suitable mains adaptor is included with the set, as is a power lead to allow operation from a battery or other power source.

Supplied accessories

- RA2001** Telescoping antenna with BNC connector, 0.65meter.
AA2001 AC adapter, input 117V AC, output 12V DC 500mA.
DC2001 DC power cable with plug, 1.5meter.



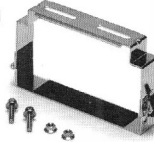
Optional accessories

- RC PACK** RS232C interface unit with flat cable/connector.
MM-1 Mobile mounting bracket with bolts/nuts.
MA-300 Mobile antenna, lid mount, with 4 meter coax cable and BNC connector.
DA-300 Out door antenna, discone type, with 10meter coax cable and BNC connector.

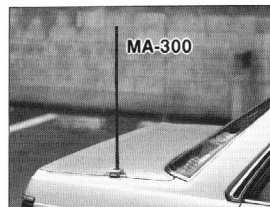
RC PACK



MM-1



MA-300



DA-300

