

## AR5000A+3 - enhanced desktop radio



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### AR5000A+3

Enhanced high performance desk top receiver **10kHz - 3GHz**, all mode. Powered by 12V DC and supplied with an AC power supply.

*Formally discontinued in April 2008 - however a special "final" production batch has been produced for commercial and government operators. A small quantity is available (to any customer), but act quickly!*

The AR5000A provides amazing sensitivity and strong signal handing across an unprecedented wide frequency coverage with all mode receive tuneable down to 1Hz steps... all this in a compact cabinet weighing just 3.5kg. No wonder this receiver has been adopted as the definitive receiver for professional operators, top-end hobbyists, government departments and armed forces throughout the world. The short wave performance is so good that separate receivers need not be considered.

Whether sitting on the desktop monitoring short wave transmissions or connected to aerial farms for wide band VHF-UHF monitoring (via the optional AS5000 4-way aerial switch with automatic bandplan switching), operators have been astonished how the seemingly impossible has been achieved... unparalleled high performance, an amazingly flexible operating system, high build quality featuring a metal cabinet - yet still remaining very compact.



A TCXO forms the building block which is fitted as standard to ensure a very high degree of stability, provision is made to feed the AR5000A from an external 10 MHz reference signal should one be available (commercial organisations etc).

A Numeric Controlled Oscillator (NCO) provides smooth tuning with steps right down to 1Hz. The receive circuitry is a triple conversion superheterodyne with I.F.s' of 622.0 / 622.4MHz, 10.7MHz & 455kHz. Multiple switchable I.F. bandwidths are available in both the 10.7MHz and 455kHz I.F. stages: 3kHz, 6kHz, 15kHz, 30kHz, 110kHz & 220kHz with provision for an optional 500Hz Collins mechanical filter, also a substitute 2.5kHz Collins mechanical SSB filter and Collins mechanical 5.5kHz narrow AM filter option is available.

The AR5000A is housed in a stylish custom solid metal cabinet and is powered from the supplied external 12V d.c. power unit but may be operated from any regulated supply or battery capable of providing 12-16V @ 1.0 Amps approx. Aerial input is via a high quality N-TYPE connector with a second SO239 connector which is switchable manually or automatically from the front panel. A switchable preamplifier is employed (below 230 MHz) plus a switchable 10dB attenuator, this may be configured as "auto" so that the receiver selects the optimum setting automatically.

Not only is the RF performance outstanding, the microprocessor facilities also point to the forward and innovative thinking which forms the core of the success. There are 1,000 memory channels, 10 scan banks, 20 search banks with auto-memory store and a total of 2100 PASS frequencies, 5 independent VFOs, alpha-tag memory & search banks... TWICE, frequency offset, step adjust and auto-mode tuning and much more.

**The AR5000A+3 version has three additional features which are not available in the standard version:**

The "+3" version offers even more with synchronous AM, AFC and Noise Blanker. Popular with government agencies throughout the world. The AR5000+3 is a 'feature loaded' version of the AR5000 receiver with three enhanced options fitted, these options can only be fitted in the factory during manufacture:

- Synchronous AM
- Automatic Frequency Control
- Noise blanker

The size is 217 (W) x 100 (H) x 260 (D) mm (excl. projections) and weighs around 3.5kg.

**Accessories supplied:**

AC power supply, additional spacers for the feet, comprehensive illustrated operating manual.

**Many options available including PC lead for computer control, aerial switch, Collins IF filters...**

- MF300 Collins 300Hz mechanical CW filter
- MF500 Collins 500Hz mechanical CW filter
- MF2.5 Collins 2.5kHz mechanical SSB filter
- MF4 Collins 4kHz mechanical AM filter
- MF6 Collins 6kHz mechanical AM filter
- CR5000 record lead
- 8MINI ACC1 moulded connector
- 8LMINI ACC1 moulded connector with approx 1m of cable
- AS5000 aerial switch
- 5000PC RS232 computer lead 9-pin (free software for download)
- DC3000 DC lead
- CT5000 CTCSS internal PCB option
- DS8000 internal voice inversion PCB option
- AR5 PC software
- Spectrum-Master PC software

