



# The New Concept

## AR8000

### All Mode Wide-Band World Band Radio Receiver

The AR8000 is the result of AOR's long term ambition to produce a new breed of radio receiver which combines full computer compatibility with advanced wide-band radio receiver technology. With the introduction of the new AR8000, AOR have broken the mould of conventional radio receiver design.

At first glance the AR8000 in its static form may look no different to any modern hand-held scanning receiver, but the similarity ends there... just as soon as the receiver is switched on!! Initially you are greeted with the opening welcome message on the AR8000 multi-function liquid crystal display "WELCOME TO THE WORLD OF AR8000 RECEIVER", in a similar way to a sign on message displayed by your personal computer. This new experience immediately demonstrates to the new user and discerning radio listener that the AR8000 is no ordinary radio but THE NEW CONCEPT in radio design. The modern new cabinet measures approx. 152mm (H) x 69mm (W) x 40mm (D) excluding projections and weighing only 350g including NiCads (but not aerial).

#### Electronics...

The AR8000 is a highly sensitive hand-held receiver boasting a very wide frequency coverage of 500 kHz to 1900 MHz without gaps in the range (actual acceptable frequency input from 100 kHz). Step size is programmable in multiples of 50Hz for smooth tuning. The all-mode reception provides AM, USB, LSB, CW, NFM and WFM. As you might expect from a radio receiver of this calibre, an independent 4.0 kHz SSB filter is fitted as standard and the USB/LSB/CW modes use true carrier re-insertion with correctly calibrated frequency read-out (not offset by 1.5 kHz). A custom manufactured ferrite bar aerial is neatly internally installed at the top of the receiver's cabinet to enhance receive performance when listening in population centres to Medium Wave services or when commentary is provided at airshows and motor sport events.

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The high visibility LCD is of a new dot matrix format which enables many new facilities to be used, many of which have never been seen before especially on a hand-held design. Two VFO frequencies may be displayed on the LCD simultaneously, one providing a stand-by frequency available for quick transfer (similar to commercial aviation built-in radio transceivers). When frequencies are entered, ALPHANUMERIC comments may be stored along with frequency, mode & attenuator status simplifying the job of recalling and identifying memory channels. The LCD provides four lines of display so that additional facilities may be provided and displayed at the same time, these include a signal strength bar meter and a band-scope showing band occupancy.

#### Computer type functions...

The AR8000 is equipped with almost every conceivable operating feature but operation remains easy thanks to a massive new microprocessor. A total of 1000 memory channels are provided which are divided into 20 banks, each having 50 channels. AOR have chosen to allocate 50 channels per memory bank (rather than the more conventional 100) based on findings that most radio listeners prefer fewer channels per bank but more banks for simplified operation. The AR8000 will search and scan at a very respectable (and fast) maximum speed of approximately 30 increments per second. You may even enter "special" frequencies into memory banks where they may only be recalled by entering a user definable PASSWORD... this will stop preying eyes.

The AR8000 is truly a button pushers delight but operation need not be difficult. As well as a comprehensively illustrated operating manual (over 100 pages with in excess of 50 LCD illustrations), the AR8000 has two operating modes: NEWUSER and EXPERT. As already mentioned, the multi-function LCD provides many new facilities but the receiver has a few more tricks up it's sleeve. Not only can you connect the AR8000 to an external computer for remote control, you may connect two AR8000 receivers back-to-back so that data may be copied from one to another (via the optional CU-8232 RS232 remote control interface).

