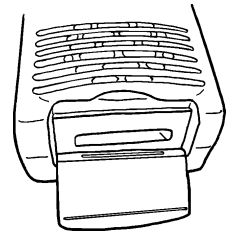# AR8200 OPTIONS

never before has one hand portable offered so much

The AR8200 has many new and exciting options which are easy to fit using a revolutionary new slot card system. Simply open the cover on the bottom of the unit and **slot in your choice** of option. **Slot cards also compatible with the AR8600.**
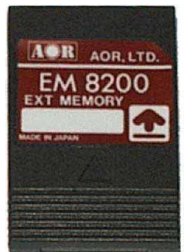
CT8200 optional CTCSS slot card

The CT8200 enables the AR8200 to search for 50 CTCSS tones which may be in use on the current receive frequency and to save a specific CTCSS tone (from the 50 tones available) into each VFO, each search bank and every memory channel individually. CTCSS is used by may amateur band repeaters, public utilities and private mobile radio services where shared resources are used, CTCSS ensures that operators only hear traffic intended for them.

EM8200 optional external Extended Memory slot card

The EM8200 enables the whole 1,000 memory channels in 20 banks and 40 program search banks to be backed up to the EM8200. In fact the EM8200 can hold the entire contents of the AR8200 including environmental operating data and band scope FOUR times in EM8200 locations 0, 1, 2 & 3. It is not necessary to save ALL data, you can specifically choose what data is to be backed up and to which location.

TE8200 optional Tone Eliminator slot card

The TE8200 enables the AR8200 to ignore certain transmissions which would otherwise stop the scan and search process. Constant tones are often transmitted by public utilities and railways making their transmissions troublesome and fatiguing to monitor without the use of the TE8200. There are 256 values for the tone eliminator ranging from 0 to 255 representing a frequency range of 0.4 to 4.2 kHz.

Note: The audio tone is not removed from the audio path to the speaker but are used as a squelch trigger so that scan and search functions resume automatically when the selected tone is encountered.

VI8200 optional Voice Inverter slot card

The VI8200 enables the AR8200 to recover intelligible audio from certain types of analogue transmissions which would otherwise sound scrambled. They operate by splitting up the audio spectrum and "flipping" the upper and lower tones around a certain frequency point. The VI8200 enables 157 different "flip points" to be selected in the frequency range of 2.4kHz to 5.6kHz.

Note: Although principally designed to descramble Japanese cordless phones, various UK PMR services use simple inversion (such as PMR446). If you hear a transmission which sounds like a 'speeded up tape recording of Donald-Duck' but you can recognise the occasional word, it will probably be simple inversion. If however you cannot understand a single word, it is likely to be a more complex form of inversion. Several customers have e-mailed zipped WAV audio files to us so that we can try to confirm compatibility prior to purchase, if you do forward a file, keep the size to no more than 1MB.

RU8200 optional Record & playback slot card

The RU8200 enables around 20 seconds of audio to be recorded to a chip within the RU8200 for playback at a later time. The chip may be recorded to time and time again over writing the previous recordings. The recordings may be played back over and over, very useful if you have grabbed an interesting recording! The RU8200 may be used in VFO, scan, search and memory read modes.

Note: When used with the **AR8600**, the RU8200 can be configured to effectively provide a *20 second continuous loop* recording.

AR8200 computer control

8200PC computer connecting lead

The lead has level shift interface built-in and is powered by the AR8200 (no external power is required), effectively the 8200PC looks just like a connection lead with the special connector on one end to fit straight into the AR8200 AUX side socket, the other end of the lead is fitted with a 9-pin connector which fits directly into a PC serial port, the lead is about one metre in length.

Note: The 8200PC replaced the CC8200 in October'2000, the lead is identical but is supplied without the CD-ROM (as most customers download the software free from the internet - so save £5 in price when compared to the CC8200).

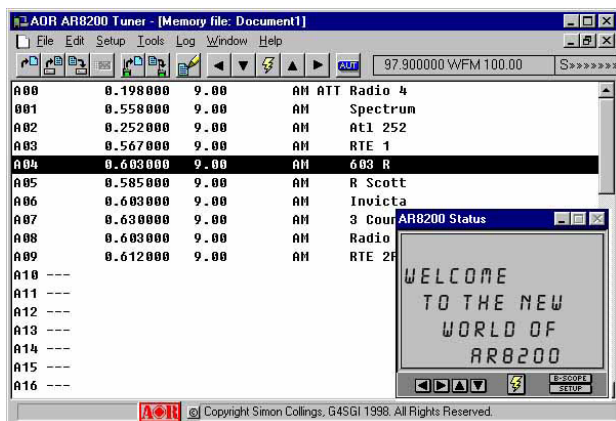## Free control software is available from the AOR web site.

If you do not wish to download the FREE software, it is available on an optional CD-ROM (AOR SAMPLER CD-ROM), please order **8200PC + AOR SAMPLER** CD-ROM. An RS232 protocol listing for the AR8200 is also available from the AOR web site (or as a printout or Acrobat PDF file for a small charge).

Alternatives to the 8200PC

As the 8200PC lead is a specialist item, it is manufactured in relatively small quantities, this is reflected in the price.

A couple of 3rd party companies manufacture a compatible interface (such as Javiation in Bradford, UK Tel: 01274 639503 *www.javiation.co.uk*).

Also, it is possible to purchase just the OS8200 lead with AUX connector and build your own interface, there are several designs on the internet (but remember, if damage occurs to your receiver as a result of a home-built interface, repair work will not be covered by warranty):

A00	0.198000	9.00	AM ATT	Radio 4
001	0.558000	9.00	AM	Spectrum
A02	0.252000	9.00	AM	At1 252
A03	0.567000	9.00	AM	RTE 1
A04	0.603000	9.00	AM	603 R
A05	0.585000	9.00	AM	R Scott
A06	0.603000	9.00	AM	Invicta
A07	0.630000	9.00	AM	3 Coun
A08	0.603000	9.00	AM	Radio
A09	0.612000	9.00	AM	RTE 2F

WELCOME TO THE NEW WORLD OF AR8200

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Optional accessories

Leads:
Various leads are available for use with the option socket.

CO8200 Data clone lead, for copying data between two AR8200 receivers without the use of the EM8200 slot card or 8200PC computer connection. Leads are made to order in the AOR UK workshop.

OS8200 Aux connector with about one metre of open-end cable (as per page 117 of the AR8200 operating manual). Can be used for discriminator output or making your own interface or recording connections (you will need to fit your own plug for connection to other peripherals).

CR8200 Tape recorder lead / interface unit, features a lead and connector for the AUX port of the AR8200. The matchbox size active interface (powered by the AR8200) provides low level audio output for tape recording via a 3.5mm mono jack plug, the 2.5mm mono jack plug provides DC tape motor switching. Both the audio output and remote connectors are *'squelch activated'* so that the CR8200 is usable for tape recorders with a remote connector and those using VOX/VOR activation.

RT8200 Reaction tune lead for connecting the AR8200 to the OPTO SCOUT (or other compatible frequency counters).

Aerials:
There are many suitable aerials available on the market, these include.

MA500 VHF/UHF whip aerial on magnetic base with 4m of coaxial cable. Base is 85mm in diameter, total height is 720mm. Coverage is 25MHz to 1300MHz.

DA3000 16 element discone aerial with 15 of coax. Coverage is 30MHz to 2GHz.

DA753G 12 element COMPACT discone aerial with 10m of coax. Coverage is 75MHz to 3GHz.

SA7000 Passive twin element wide band aerial with 15m of coax. Coverage is 30kHz to 2GHz.

LA350 Desktop loop aerial 3.0 to 30MHz. Optional elements available for LW & MW. Supplied with BNC lead.

ABF125 VHF airband filter for increased adjacent channel selectivity.

Service manuals Available, state model (MK1 etc)