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**INNOVATION
FOR MORE THAN
20 YEARS**



**ALL MODE RADIO RECEIVERS FROM KHZ TO GHZ, SPECTRUM DISPLAY UNIT,
AERIALS, CONTROL SOFTWARE AND ACCESSORIES...**

AOR GENERAL CATALOGUE

AR5000, AR5000c, AR5000+3

HIGH PERFORMANCE WIDE BAND ALL MODE RECEIVER 10 KHZ - 2600 MHZ

★★★★ AR5000+3 awarded four stars by both the authoritative
Passport To World Band Radio and World Radio & TV Handbook



Since the release of the AR5000, professional monitors, top-end hobbyists, government departments and armed forces throughout the world 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 and relatively light weight. There is little competition for comparison, 'the rest of the pack' are significantly larger, heavier or many times more expensive! AOR have been synonymous with pioneering receiver design from many years and this tradition continues with the AR5000.

A great advancement in wide band front end design has been made, partly due to the introduction of **automatic electronic preselection** between 500kHz - 999.999999MHz with low pass, band pass and high pass filters for other bands. The preselection may be "manually tracked" when monitoring spot frequencies to help reduce any potential effects of interference caused by nearby monster transmitters, this results in excellent strong signal handling yet maintains high sensitivity. 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 AR5000 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 622MHz, 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 AR5000 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 @ 1.5Amps. 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.

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, frequency offset, step adjust and auto-mode tuning to name just a few. **EEPROM BANK SWITCHING** means that all the memory channels, search banks, pass frequencies and VFOs are PROVIDED TWICE (making a **total of 2,000 memory channels, 40 search banks, 10 VFOs** etc). Scanning and search speed is a very respectable maximum of **45 channels or increments per second** using "Cyber Scan" technology. A **DTMF decoder** is provided to display DTMF characters in use with an optional CTCSS board to display the CTCSS frequency. Extensive facilities are available via the **RS232 port**, other useful facilities include a built-in dual time clock with On/Off timer.

AR5000c - frequency coherent

When making critical measurements, the frequency coherence is very important whether a single or multiple unit is employed. Just like optical telescopes, the output from several receivers may be ADDED together to provide greater performance, however their frequencies must be absolutely coherent. This involves the use of a single reference for all oscillators employed throughout the receiver. Several receivers may then be connected to a single external frequency standard safe in the knowledge that their outputs will be coherent.

The AR5000c now provides this commercially required capability. The "C" version may be provided to order in either the standard AR5000 format or with two of the +3 additions of AFC and NB. If you are a commercial operator with this application in mind, please request the separate specification information for the AR5000c.

AR5000+3 - Sync AM, AFC, NB

The "+3" version offers even more with synchronous AM (upper side band, lower side band and double side band with excellent lock range), AFC (Automatic Frequency Control for accurately tracking moving transmissions or unusual band plans) and Noise Blanker.

Standard supplied accessories

a.c. power supply
Comprehensive operating manual
RS232 protocol listing
Pair of front extension feet

Options available

MF500 500Hz Collins mechanical
CW filter
MF2.5 2.5kHz Collins mechanical
SSB filter
MF6 5.5kHz Collins mechanical
AM filter
DC3000 d.c. lead
CT5000 CTCSS unit
DS8000 analogue voice inverter
CR5000 tape record lead
AS5000 aerial switch
SM5000 service manual
SA7000 wide band LF-UHF aerial
DA3000 wide band discone
LA320 short wave loop aerial
MA500 mobile aerial on mag-mount
SDU5500 spectrum display unit
Spectrum-Master PC Windows software

Key features

- Very wide frequency coverage 10kHz - 2600MHz
- All mode reception: AM, FM, USB, LSB & CW
- Automatic electronic preselection of the front end
- Excellent strong signal handling
- NCO (Numeric Controlled Oscillator) with tuning steps down to 1Hz
- TCXO fitted as standard
- Multiple I.F. bandwidths 3kHz, 6kHz, 15kHz, 30kHz, 110kHz & 220kHz
- Auto mode bandplan selection
- Multi-function LCD with 8 character alpha-text comments
- Extensive search & scan facilities
- "Cyber Scan" fast search & scan speeds up to 45 channels / increments per second
- Analogue S-meter
- 1000 memory channels and 20 search banks with EEPROM storage - TWICE!
- Auto memory store
- Extensive RS232 command list
- Sleep timer / alarm
- SDU ready

Specification

Model	AR5000
Frequency range	10kHz - 2600MHz (minimum accepted frequency input 5 kHz) NCO 1Hz - 999,999999kHz AM, FM, USB, LSB & CW +3 includes Sync AM
Tuning Modes	1st i.f. 622.0 MHz 2nd i.f. 10.7 MHz 3rd i.f. 455 kHz
i.f. frequencies	3kHz, 6kHz, 15kHz, 30kHz, 110kHz & 220kHz (provision for 500Hz option)
Standard fitted filters	1000 (100 ch x 10 banks) 20 banks
Memory channels	25 channels/per second in standard mode, 45 channels per second (max) in Cyber Scan
Search banks	25 increments per second in standard mode, 45 increments per second (with step size of 100kHz or less) in Cyber Search
Memory scan speed	2100 total (21 banks x 100 ch inc VFO)
Search speed	1 channel 10.7 MHz with maximum ± 5 MHz bandwidth 10.0 MHz input Phono/RCA socket CMOS input pull-up to 5V @ 100k OHMS 0° to +50° C 50 OHM unbalanced. N-TYPE & SO239 1.7 WATT into 8 OHMS @ 10% THD nominal 13.5V d.c. (12 - 16V) @ 1.5A or less 217(W) x 100(H) x 260mm(D) mm approx excluding projections 3.5kg ROM 32,768 Byte RAM 1,024 Byte 131,072 Byte (1M Bit)
PASS frequencies	
Priority	
i.f. output	
External reference	
Mute	
Operating temp.	
Aerial input	
Audio output (13.5V)	
Power requirements	
Size	
Weight	
CPU 8bit	
EEPROM	

SELECTIVITY Filter kHz	Total noise (b'width kHz / dB)	Total skirt (dB)
0.5 (500Hz)opt	0.5 -3	2.0 -60
2.5 opt	2.5 -3	5.2 -60
3	2.4 -6	4.5 -60
5.5 opt	5.5 -3	11.0 -60
6	9.0 -6	20 -50
15	15 -6	30 -50
30	30 -6	70 -50
110	140 -3	350 -20
220	260 -3	520 -20

SENSITIVITY Receive frequency	10dB S/N AM 6kHz	12dB SINAD SSB/CW 3kHz	12dB SINAD FM 15kHz	12dB SINAD FM 220kHz
10kHz - 40kHz	63.0uV	17.7uV	-	-
40kHz - 100kHz	4.46	1.25	-	-
100kHz - 2MHz	2.23	0.40	-	-
2MHz - 40MHz	1.25	0.40	0.56	1.58
40MHz - 1,000 MHz	0.63	0.3	0.4	1.25
1,000MHz - 2.6 GHz	0.63	0.3	0.36	0.89

★★★★ AR5000+3 awarded four stars by both the authoritative Passport To World Band Radio and World Radio & TV Handbook Passport to World Band Radio'99.

"Front-end selectivity, image rejection, IF rejection, weak-signal sensitivity, AGC threshold and frequency stability all superior".

"Unlike virtually every other receiver we have tested over the past 21 years, the frequency readout is unfailingly accurate to the nearest Hertz. This should make the AR5000+3 of exceptional interest to broadcast engineers".

World Radio TV Handbook'99.

Speaking of the AR5000+3 in conclusion...

"Compared with the ICOM ICR-8500 it offers considerably more features, better strong-signal handling, wider coverage and decidedly superior filters".

RADIO-2.	TXT	BANK
AM1 ATT000 AMP	NCO AUTO	FM
88300000	170K	VR
DEL SRCH		BANK
AM1 ATT000 AMP	NCO AUTO	FM
14520000	15K	VR
AM1 ATT000 AMP	NCO AUTO	FM
1950287500	170K	SR
BEEP	4	
MODE FM		

AR3000A - evolution, the wider horizons

WIDE BAND ALL MODE MOBILE / BASE RECEIVER 100 KHZ - 2036 MHZ

Specification

Receiver coverage	100 kHz - 2036 MHz
Tuning selection	50 Hz - 999.95 kHz - programmable
Receiving modes	AM, WFM, NFM, USB, LSB & CW
Memory channels	400 total (4 x 100)
Memory banks	Four
Memory scan rate	50 increments per second max.
Search rate	50 increments per second max.
Aerial connection	50 OHM BNC
Audio output	0.7 WATTS 8 OHM load @ 10% distortion (1.2W into 4 OHM)
Power requirement	External 12V d.c. @ 0.5A (nominal 13.8V) negative ground approx.
Size	138mm (W) x 80mm (H) x 200mm (D) approx. excluding projections
Weight	1.2kgs

Sensitivity

Frequency	10dB S/N		12dB SINAD	
	SSB/CW	AM	NFM	WFM
100kHz - 2.5MHz	1.0uV	3.2uV	-	-
2.5MHz - 1.8GHz	0.25uV	1.0uV	0.35uV	1.0uV
1.8GHz - 2.0GHz	0.75uV	3.0uV	1.25uV	3.0uV

Selectivity

USB/LSB/CW	2.4kHz -6dB	4.5kHz -60dB
AM/NFM	12kHz -6dB	25kHz -60dB
WFM	180kHz -6dB	800kHz -50dB

Supplied accessories

RA2001	right angle telescopic whip aerial on BNC plug
DC3000	d.c. lead
Operating manual	
a.c. PSU	power supply provided in some market areas

AR3000A Options

CR400	Tape record lead
DC3000	12V DC lead for the AR3000A
DA3000	16 element discone aerial. Usable coverage 25MHz to 2GHz. Supplied with 15m of coaxial cable and terminated in a BNC plug.
MA500	VHF-UHF mobile whip on a magnetic mount.
SA7000	Twin Element ultra wide band receive aerial 30kHz to 2GHz. Supplied with 15m of coaxial cable and terminated in a BNC plug.
Searchlight	Windows software for AR3000A.



The AR3000A is an evolutionary step forward from the highly acclaimed AR3000, many major improvements have been implemented at the requests of enthusiastic listeners and commercial organisations. Search and scan speed has been increased to an unprecedented **50 increments per second**.

Your listening horizons are truly extended with receive coverage from 100 kHz all the way up to 2036 MHz without any gaps in the range. The AR3000A provides an extremely wide coverage with high level of performance and versatility from long wave through short-wave, VHF and onward to the upper limits of UHF.

The high level of performance is achieved by using 15 band pass filters before the GaAsFET RF amplifiers unlike many other receivers which rely largely on broad band amplifiers. This ensures high sensitivity through the entire coverage with outstanding dynamic range and freedom from intermodulation effects.

Not only will the AR3000A cover this extremely wide range, it will allow listening on any mode: **NFM, WFM, AM, USB, LSB and CW**.

Tuning rates are selectable from a fine 50 Hz step for SSB and CW right the way up to 999.95 kHz for the TV and VHF broadcast bands, x10 increase and SLOW buttons quickly change tuning rates for convenience and speed. A free running rotary tuning control provides the best possible method of user-interface along with the numeric keypad.

An **RS232 port** is provided as standard enabling full remote control of the receiver.

There are 400 memory channels arranged as 4 x 100 and 4 search banks, frequency lockout, priority, frequency offset, step adjust etc all make the AR3000A a feature packed unit.

The AR3000A is powered from 12V d.c., a suitable mains power supply is provided with the receiver. Other accessories include a telescopic whip aerial, d.c. lead and operating manual.

AR8600 - any time, any place

WIDE BAND ALL MODE RECEIVER 530 KHZ - 2040 MHZ WITH RS232 PORT

Specification

Frequency Range:	530 kHz to 2040 MHz (Actual frequency input 100 kHz to 2040 MHz, performance between 100 kHz to 530 kHz is not guaranteed).
Receive Modes:	WFM, NFM, SFM, WAM, AM, NAM, USB, LSB, CW
Sensitivity:	530 kHz ~ 1.9 MHz AM: 3.5uV (10dB S/N) 1.9 MHz ~ 30 MHz AM: 2.0uV (10dB S/N) 30 MHz ~ 470 MHz AM: 1.0uV (10dB S/N) NFM: 0.35uV (12dB SINAD) WFM: 1.0uV (12dB SINAD) 470 MHz ~ 820 MHz NFM: 0.5uV (12dB SINAD) 820 MHz ~ 2040 MHz NFM: 2.5uV (12dB SINAD)
Selectivity:	SSB/NAM 3kHz (-6dB), 9kHz (-60dB) AM/SFM 9kHz (-6dB), 20kHz (-40dB) WAM/NFM 12kHz (-6dB), 25kHz (-40dB) WFM 150kHz (-3dB), 380kHz (-20dB)
Aerial connection:	50 OHM BNC
Audio output:	800mW (8 OHMS) MAX @ 10% THD. Internal speaker, rear chassis 3.5mm socket, front panel 3.5mm socket
Power Consumption:	400mA typical usage, 50mA on standby. 10.8 - 16V d.c. negative ground. 9.6V from optional internal BP8600 NiCad
Dimensions:	155(W) x 57(H) x 195(D) mm excluding projections
Weight:	2kg approx (MW bar aerial included)
Memory channels:	1,000 (20 banks)
Select scan channels:	50
Priority channels:	1
Search banks:	40
PASS channels:	50 per search bank + 50 for VFO search
Scan/Search Rate:	37 increments per second maximum

Optional accessories

Slot cards:	
VR8200	Voice inverter (analogue), in 157 steps
CT8200	CTCS squelch & search.
TE8200	Tone eliminator in 256 steps
RU8200	Chip based recording and playback, 20 seconds approx. with continuous loop
EM8200	External extended memory, backup 4,000 memories, 160 search banks
Miscellaneous:	
CR5000	tape recording lead
DC8600	d.c. lead with cigar plug
BP8600	optional internal NiCad battery pack, provides about two hours of operation, requires workshop fitting
MM8600	wrap around mobile mount
MF2.5	substitute Collins SSB
MF6	mechanical filter, requires workshop fitting
	substitute Collins AM mechanical filter, requires workshop fitting
PC software	control software available free from the AOR web site



The AR8600 is an extremely versatile receiver which can be used virtually anywhere, mobile, base or trans-portable... powered from an external 12V d.c. power supply, optional d.c. lead from a 12V vehicle or from an optional internally fitted NiCad battery pack. A strong twin metal case with die cast front panel characterises the multi-purpose role. All mode receive capability is provided including Single Side Band with programmable tuning steps down to a resolution of 50Hz with the frequency established by a highly accurate Temperature Compensated Crystal Oscillator (TCXO). An RS232 port further extends the capabilities with free supporting control software available from the AOR web sites.

Although many microprocessor features have been adopted from the trendsetting AR8200 Series-2 hand portable receiver, the AR8600 RF front-end is an all new design with preselection around VHF to ensure the highest levels of adjacent channel rejection with software spuri cancellation. In addition to a hinged telescopic whip aerial, the AR8600 is supplied with a **detachable plug in medium wave bar aerial** which locates on the rear chassis of the receiver for localised medium wave monitoring. An additional BNC socket is mounted on the rear chassis so that **10.7MHz i.f. output** may be extracted for use with external spectrum display and vector analyser units such as the AOR SDU5500. The TCXO ensures **high stability with minimal internal spuri** and is usually only seen in top of the range (more expensive) table-top models such as the AR5000 and AR7030. The chassis is manufactured from two metal compartments, effectively a **metal chassis inside a metal cabinet**... this provides excellent screening characteristics and great robustness highlighting its multi application role. The **front panel** is also manufactured from **die-cast aluminium**.

The all important **8.33 kHz airband channel step** is **correctly implemented** (eight-and-one-third, 33, 66, 00). Two frequencies may be displayed along with operating legends and high resolution signal meter and **multi-function band scope**. The band scope provides adjustable span width from 10 MHz to 100 kHz, you can move the marker, operate peak hold, transfer the marker frequency to VFO and **save trace** for later recall. Scan & search rates provide a maximum of approximately 37 increments per second.

Computer control is available via a standard 9-pin RS232 D-type connector on the rear chassis, just a standard RS232 cable is required for connection to a PC, the extensive RS232 command list is printed in the operating manual. A **FREE software package** is available as a download from the AOR web sites. In addition, **'optional internal SLOT CARDS'** (which fit into the rear chassis of the AR8600) extend the capabilities even further.

AR8200 Series-2 - The Superior Concept

NEVER BEFORE HAS ONE HAND PORTABLE OFFERED SO MUCH



The AR8200 represented a beacon when first released building on the successful recipe of the AR8000 and technology developed for the award winning AR5000 base receiver. Technology marches forward with the AR8200 SERIES-2 keeping the innovative concept and forward thinking alive and bright. It has not been easy improving on what many thought to be the ultimate, however the AR8200 SERIES-2 does provide even more with nothing taken away.

A Temperature Compensated Crystal Oscillator (**TCXO**) now forms the heart of the AR8200 SERIES-2, this ensures **high stability** with **minimal internal spuri...** the TCXO replaces a crystal reference as commonly employed in other receivers and is usually only seen in top of the range (more expensive) table-top models such as the AR5000 and AR7030. Performance too has seen the AOR R&D team fine tuning the design for **best sensitivity and strong signal handling** over the extremely wide coverage of 530kHz to 2040MHz (all mode receive without gaps). The standard aerial has been replaced by a **telescopic whip** on a swivel base, this ensures the best results, a medium wave bar aerial is also provided as standard. The design team have certainly been taking account of customers wishes, the keyboard ZERO key has been swapped in position with the DECIMAL to match the telephone layout, LCD illumination has been increased (for improved visibility) and following requests for longer operation between charges, the **4 x AA size NiCads have been increased in capacity**, again reflecting improvements in modern technology. The obvious change has been left for last... the **cabinet colour** has been changed from green to **black** !

The list of features is vast, large multi-section backlit LCD, side mounted navigation keys and rotary tuning control, alpha-numeric text comments.

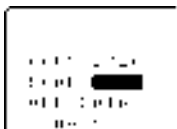
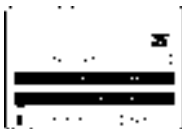
The all important **8.33 kHz airband channel step** is **correctly implemented** (eight-and-one-third, 33, 66, 00). Channel steps are provided in a menu and may be programmed. Step may be programmed by the operator in any receive mode using multiples of 50 Hz in any mode (i.e. 5 kHz, 12.5 kHz or even 1.25 kHz). Extensive **step-adjust** and **frequency offset** facilities are also provided (as per AR5000) to ensure tracking of the most obscure

band plans, **AFC** (Automatic Frequency Control) is included for spot on tuning ensuring that nothing is missed. A wide frequency coverage is available from 530 kHz to 2040 MHz (no gaps) with actual minimum acceptable frequency of 100 kHz.

The RF front-end is preselected around VHF to ensure the highest levels of adjacent channel rejection with software spuri cancellation. The short wave bands are converted directly to an IF of 45 MHz to remove compromise and the AR8200 SERIES-2 is supplied with a **detachable plug in medium wave bar aerial** for localised monitoring with a negative feedback circuit employed.

All mode receive: WFM, NFM, SFM (Super Narrow FM), WAM, AM, NAM (Wide, standard, Narrow AM), USB, LSB & CW. A 3.0 kHz SSB filter is employed with true carrier re-insertion resulting in non-offset frequency readout for easy tuning of SSB transmissions. An attenuator and noise blanker are also featured. A meaningful band plan is factory programmed specific to market area, this ensures that the AR8200 SERIES-2 automatically selects the correct receive mode and tuning step (although mode and tuning step may be manually selected at any time), the band plan may be edited via computer control.

The **side keypad** provides **four arrow keys presented as a single 'rocker'** resulting in more natural and intuitive navigation through the on-screen menus.



Tuning is accomplished via a variety of controls including a side panel indented main tuning dial, arrow keys and keypad. A larger than average back lit LCD with contrast control provides operational data with the ability to add **12 character text comments** to each memory channel, memory bank and search bank, a text search feature simplifies identification and recall of stored information. Many text prompts aid operation making programming of search banks etc straight forward. Two frequencies may be displayed along with operating legends and high resolution signal meter and **multi-function band scope**. The band scope provides adjustable span width from 10 MHz to 100 kHz, you can move the marker, operate peak hold, transfer the marker frequency to VFO and **save trace** for later recall. The stylish black cabinet has a quality feel with an excellent rear-illuminated keypad with a hard wearing finish.

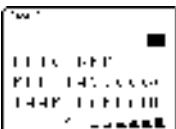
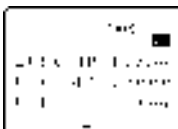
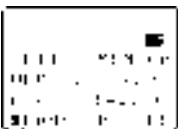
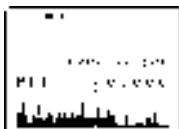
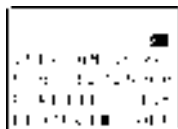
Flexible dynamic memory bank layout is provided (memory banks may be varied in size between 10 and 90 channels each i.e. bank 'A' 80 channels / bank 'a' 20 channels with bank 'B' 40 channels / bank 'b' 60 channels etc). A total of 1,000 memories are provided in 20 memory banks, lockout, select scan, priority and auto store are also provided. In addition 40 search banks are provided with 50 pass channels per search bank and a further 50 for VFO search lockout. Comprehensive edit, move, swap and delete facilities are provided, it is possible to move whole memory & search banks. Scan & search rates provide a maximum of approximately 37 increments per second. Flash-ROM memory storage ensures that data is automatically saved without the need for a backup battery or capacitor.

Computer control is available via a metallic side mounted robust connector and optional lead, an extensive RS232 command list is supported. A **FREE software package** is available as a download from the AOR web sites.

The AR8200 SERIES-2 is powered from **4 x AA internally fitted high capacity NiCad cells** (supplied), dry cells may be used. External power may also be connected to the charge socket for extended periods of operation (9 - 16V d.c.).

'As if this was not enough', **optional internal SLOT CARDS** (which fit into the AR8200 SERIES-2 base) extend the capabilities even further: ● **Memory slot card** (increase storage to 4,000 memories, 160 search banks). ● **CTCSS slot card** squelch & search. ● **Record chip slot card** (records up to 20 seconds of audio). ● **Tone eliminator slot card**, ● **Voice inverter card**. **All this in a cabinet which weighs just 217g** (excl. NiCads & aerial, 311g with NiCads fitted) with dimensions of 61(W) x 143(H) x 39(D) mm (excl. projections).

Specification	
Frequency Range:	530 kHz to 2040 MHz * (Actual frequency input 100 kHz to 2040 MHz, performance between 100 kHz to 530 kHz is not guaranteed).
Receive Modes:	WFM, NFM, SFM, WAM, AM, NAM, USB, LSB, CW
Sensitivity:	500 kHz ~ 2.0 MHz AM: 3.50 µV (10dB S/N) 2.0 MHz ~ 30 MHz SSB: 1.50 µV (10dB S/N) AM: 2.50 µV (10dB S/N) 30 MHz ~ 470 MHz SSB: 0.30 µV (10dB S/N) AM: 0.70 µV (10dB S/N) NFM: 0.35 µV (12dB SINAD) WFM: 1.00 µV (12dB SINAD) 470 MHz ~ 1 GHz NFM: 0.50 µV (12dB SINAD) WFM: 1.50 µV (12dB SINAD) 1.0 GHz ~ 1.3 GHz NFM: 1.00 µV (12dB SINAD) 1.3 GHz ~ 2.039 GHz NFM: 2.50 µV (12dB SINAD)
Selectivity:	SSB/NAM 3kHz (-6dB), 9kHz (-60dB) AM/SFM 9kHz (-6dB), 20kHz (-40dB) WAM/NFM 12kHz (-6dB), 25kHz (-40dB) WFM 150kHz (-3dB), 380kHz (-20dB)
Power Consumption:	190mA (nominal), 145mA (stand by), 25mA (power save). 4 x AA internal cells or 12V d.c. external supply
Dimensions:	61(W) x 143(H) x 39(D) mm
Weight:	217g (311g inc. NiCads, 356g inc. NiCads & aerial)
Memory channels:	1,000 (20 banks)
Select scan channels:	50
Priority channels:	1
Search banks:	40
PASS channels:	50 per search bank + 50 for VFO search
Scan/Search Rate:	Maximum 37.42 steps per second With auto-mode off, 10 kHz step, * lock time 2mS, * Squelch wait 15mS. (*this value is preset and varies depending upon band and step, squelch wait times of 15mS, 25mS and 30mS are employed).
Optional accessories	
Slot cards: <i>Five slot cards are available, only one may be fitted at a time.</i>	
VI8200	Voice inverter (analogue) in 157 steps.
CT8200	CTCSS squelch & search.
TE8200	Tone eliminator in 256 steps.
RU8200	Chip based recording and playback, 20 seconds approx.
EM8200	External extended memory, backup 4,000 memories, 160 search banks (can hold as much data as 4 x AR8200 SERIES-2).
Leads: <i>Three leads are available for use with the option socket.</i>	
CR8200	Tape recording lead.
CO8200	Data clone lead.
CC8200	Computer control lead with level shift (available with imperial (PC98) & metric (DOSV) screws) and supplied with RS232 protocol listing in PDF format and PC software.
Aerials: <i>There are many suitable aerials available on the market, these include.</i>	
DA900	VHF/UHF flexible whip 245mm in length.
MA500	VHF/UHF whip aerial on magnetic base with 4m of coaxial cable. Base is 85mm in diameter, total height is 720mm. Coverage is 25 to 1300 MHz.
DA3000	16 element discone aerial with 15 of coax. Coverage is 30 MHz to 2 GHz.
SA7000	Passive twin element wide band aerial with 15m of coax. Coverage is 30 kHz to 2 GHz.
LA320	Desktop loop aerial 1.6 MHz to 15 MHz. Optional elements available for LW & MW. Supplied with BNC lead.
ABF125	VHF airband filter for increased adjacent channel selectivity.
Case:	SC8200 Leatherette protective case.



AR7030 - The European Breeze

HIGH DYNAMIC RANGE, LOW NOISE SHORT WAVE RECEIVER



The AR7030 receiver has been awarded a **five star rating** by **Radio Netherlands** and **Table-top Receiver of the Year award 1996/97** by the **World Radio TV Handbook**, it has also been awarded **five stars** by **Passport to World Band Radio**... truly a remarkable receiver. The AR7030 stunned the world when first released due to exceptionally high performance, indeed the AR7030 still wins the analogue / DSP battle in respect of high dynamic range and low noise. High performance coupled to enhanced microprocessor features and facilities forms the cornerstone of its success.

Frequency coverage is from 0 - 32 MHz all mode: AM, Synchronous AM, USB, LSB, CW, DATA & NFM. Four 455 kHz IF filters are provided as standard with provision for a further two (including Collins mechanical filters), all of which are 'self aligned' by the receiver for optimum performance and passband symmetry; this plus the standard fitted TCXO makes the AR7030 ideal for ECSS applications. The self tuning variable bandwidth synchronous detector is a pleasure to use and 'hangs on' to the weakest of signals, audio quality is superb.

Where good strong signal handling, high performance and transportability are of great importance, the AR7030 is the solution offering an IP3 greater than +30dBm (typical +35dBm reduced by 10dB with the preamp on). Intermodulation free dynamic range with the 2.2kHz filter is typically 105dB @ 100/200kHz spacing, 104dB @ 20/40kHz and still better than 90dB @ 5kHz. This fantastic strong signal handling is aided by the innovative configuration of a lateral DMOS FET QUAD first mixer running at 15V, relay switching in the front end (not diodes) and the use of shielded inductors throughout the signal path. All this and GREAT SENSITIVITY better than 0.5uV for 10dB S/N in AM mode and better than 0.3uV for 10dB S/N in SSB. Selectivity too is razor sharp typically offering greater than 90dB @ 5kHz SSB, almost 100dB @ 10kHz and greater than 100dB @ 20kHz, these excellent figures are achieved by the implementation of a remarkably low phase noise local oscillator <-158dBc/Hz @ 100kHz.

IPLUS
PERFORMANCE

AR7030 PLUS: For those who want the 'edge' then this model has been designed for you. All aspects of performance have been carefully studied and specific performance enhancements have been applied making **excellent** into the **ultimate** :-

- ✓ Increased balance of the mixer for greatest IP2 & IP3
- ✓ High tolerance 0.1% components in DDS ladder for low noise
- ✓ Enhanced RF attenuator operation for minimal intermod
- ✓ Higher spec wire aerial input transformer for minimal mixing products
- ✓ Ceramic metal cased 4 kHz (displayed) AM filter fitted as standard (typical bandwidths: 2.2kHz, 4.0 kHz, 5.3kHz 9.5kHz)
- ✓ Bourns optical encoder for the smoothest DX tuning
- ✓ Features CPU fitted, 400 memories, multi timers & alpha tag

The **NB7030** multi-option is **not fitted as standard** to the **AR7030 PLUS**, just the 'features' CPU is fitted. Should you wish to add the hardware noise blanker and audio notch filter, **order the UPNB7030**. The **AR7030 'PLUS'** is the best of the best!

Specification - based on a typical production unit

Frequency input range	0 - 32 MHz
Modes	AM, Synchronous AM, USB, LSB, CW, DATA & NFM
Intercept point (IP ³)	>+30dBm (+35dBm typical)
Dynamic range	typical 104dB 20/40 kHz spacing with 2.2kHz SSB filter
Sensitivity (150kHz - 32 MHz)	<0.3uV for 10dB S/N in SSB <0.5uV for 10dB S/N in AM
Selectivity	>90dB @ 5kHz SSB with 2.2kHz filter >100dB @ 20kHz SSB
Standard fitted filters	2.2kHz, 5.5kHz, 7.0kHz & 10kHz
Tuning	2.655Hz in SSB modes 10.62Hz in AM & NFM modes Fully continuous tuning multi-rate speed up. Keypad frequency entry from infrared hand control
Audio output	2 WATT'S into 8 ohms using standard provided power supply
Harmonic distortion	SSB modes, input signal at S9, THD <0.2% AM modes, input signal at S9, THD <1.3%
Frequency stability	TCXO specification ± 2.5 ppm from -30° to +70°C and will typically give a receiver stability better than ± 1 ppm from 10°C to +40°C
Aerial connection	50 ohm unbalanced SO239 600 ohm unbalanced via wire grip Hi-Z whip input (on SO239) with reduced RF performance
Power requirements	15V d.c. from external a.c. mains adapter. Current typical 300 to 500mA, 1A max. 30mA on standby but can be operated on 12 to 15V d.c. with degraded performance
Dimensions	Case: 238 x 77 x 191mm (W.H.D.) Overall: 238 x 93 x 227mm (W.H.D.)
Weight:	2.2kg

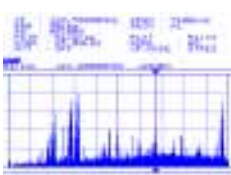
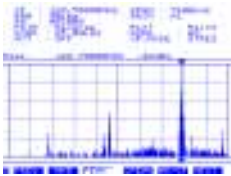
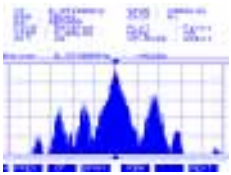
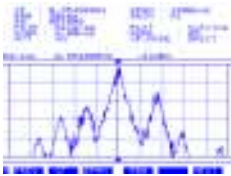
Designed & built in the UK for AOR Ltd Japan
by AOR Manufacturing Ltd

Options

MF300	Collins 300 Hz mechanical CW filter
MF500	Collins 500 Hz mechanical CW filter
CFJ455KH	Murata 1.0 kHz data filter
XTAL2.4	Quality 2.4 kHz crystal filter (FL124 daughter board required)
MF2.5	Collins 2.5 kHz mechanical SSB filter
CFK455J	Murata 3.0 kHz metal cased filter as fitted in the AR7030 PLUS
CFK455I	Murata 4.0 kHz metal cased filter
MF4	Collins 4.0 kHz AM mechanical filter
MF6	Collins 6.0 kHz AM mechanical filter
FL124	Daughter board for crystal filters
BP123	Internal rechargeable battery and charge circuit for the AR7030
NB7030	Enhanced multi-option - audio notch filter, noise blanker and features CPU for alpha-tag memories, additional memories, enhanced timer
UPNB7030	Enhanced upgrade NB7030 for those who already have the features CPU fitted such as AR7030 PLUS
FPU7030	"Features CPU" for the AR7030 as supplied with the NB7030 option
SM7030	Service information comprising circuits, layout, block diagram, service alignment disk & lead
Data-Master	PC Windows control software

SDU5500 - Spectrum Display Unit

SPECTRUM DISPLAY UNIT FOR USE WITH A COMPANION RECEIVER



The SDU5500 is an 'all new' Spectrum Display Unit and a worthy successor to the SDU5000 (which offered practical and cost effective monitoring). It has never been so easy to locate those brief elusive transmissions, coupled to the AR5000 receiver, the SDU5500 provides a spectrum display of 10 MHz bandwidth anywhere between 10 kHz and 2600 MHz. **Already pressed into commercial usage by government departments, the professionalism of the unit has truly been grasped.**

The SDU5500 has a high resolution monochrome 4.7inch (white/blue) LCD with improved status read-out on the top-half of the display, a spin wheel tuner controlling the marker position and on-screen programming similar to a dedicated high-priced spectrum analyser. There are six program keys in addition to the ten-key pad. It gets even better... compared to its predecessor, several new facilities have been provided:

- ◆ Step resolution mode, plots the wanted channel steps and ignores the gaps for more efficient analysis.
- ◆ Channel step mode, plots the wanted channels for close in use on channelised bands.
- ◆ Spectrum mode is of course available with peak, max, average etc.
- ◆ Support for AOR AR5000/5000+3, AR3000A, ICOM R7100, R8500, R9000 and 'Other' companion radio.

Frequency accuracy is typically around $\pm 600\text{Hz}$ with a usable dynamic range of 50dB and acceptable input level between -10dB to -90dB with selectable gain control. The SDU5500 truly adds a variety of features to extend your receiver's capabilities, such as visually identifying new active frequencies and taking measurements. Multiple process functions allow average level, peak detection, maximum hold and much more. The SDU5500 may be connected directly to a computer for hands-off control. Built-in support is provided for a number of AOR and ICOM receivers which have a 10.7 MHz i.f. output (AOR AR5000/+3, AR3000A and ICOM R7100, R8500 & R9000). A spectrum bandwidth up to $\pm 5\text{ MHz}$ in 1 kHz increments is provided with a resolution of 5 kHz or 30 kHz. **VDU5500:** New optional module for the SDU5500, adds vector graphical analysis of transmissions (including digital GSM etc) with data dump of node points (workshop fitting required).



Specification

Input Frequency	10.7 MHz *
Sweep Width	1kHz to 10 MHz (1 kHz step)
Frequency Accuracy	$\pm 600\text{Hz}$
Resolution Bandwidth	5/30 kHz
Reference Level	-10, -40dBm
Maximum Input Level	-10dBm
Dynamic Range	50dBm min
Level Accuracy	Linearly within $\pm 2\text{dB}$ (within -40dB from reference level)
Band Ripple	$\pm 4\text{dB}$ @ 10.7 MHz $\pm 5\text{ MHz}$
Temperature	$\pm 6\text{dB}$ (0°C - 40°C)
Marker Mode	Direct read-out for frequency and level Peak Detect + Continuous Peak Detect Averaging (2 to 32 times sampling adjustment)
Plot Mode	Outline, Paint
Display Mode	SPECT/STRES/CHANL
Input Impedance	20k Ohm
Display Type	4.7" dot matrix STN LCD
Display resolution	304 x 128 dots
Screen Refresh	500mSec
Backup	From primary d.c. 12V supply
Dimensions	225 x 124 x 240mm (W.H.D.) approx. excluding projections
Weight	3.02kg (approx.)
Power requirements	Nominal 12V d.c. @ 1A
Supported companion radio	AR5000/AR5000+3, AR3000A, IC-R7100, IC-R8500, IC-R9000 and other radios with 10.7 MHz IF output (non active)

Requirements

AR5000+3 receiver: Everything is supplied for straight forward connection of the radio control and i.f. interconnections.

AR3000A receiver: A small modification is required to the AR3000A in order to provide a 10.7 MHz i.f. output and AGC control. A 9-25 way RS232 type lead or 9-25 way adapter will be required for connection to the radio, a BNC-BNC patch lead is provided for i.f. connection.

ICOM R8500: This unit provides direct radio (RS232) connection so that the lead provided (with the SDU5500) connects straight from the SDU5500 to the rear panel RS232 socket of the R8500. The i.f. patch lead will require the changing of one BNC plug as the ICOM i.f. input uses phono.

ICOM R7100 & R9000 receivers: The optional ICOM CT17 communication interface (or equivalent) is required to connect between the SDU5500 and ICOM receiver. A 9-25 way RS232 type lead or 9-25 way adapter will be required for connection to the CT17. The i.f. patch lead will require the changing of one BNC plug as the ICOM i.f. input uses phono.

*** Other receivers:** It is also possible to connect the SDU5500 to other receivers which provide a suitable (wide) i.f. output at 10.7 MHz. In fact the SDU5500 centre frequency is programmable from the front panel of the SDU5500 when using other receivers which use different i.f. frequencies (Kenwood, Yaesu etc) in the range of 5.7 to 15.6 MHz, however see the note at the end of the specification... in practical terms the i.f. should be between 8.2 - 13.2 MHz for a 5 MHz span. In the case of the Kenwood TS870S set the i.f. frequency to 8.83 MHz and span to 5 MHz, it works very well over a range of around 50dB with good accuracy.

The CPU is FLASH UPGRADEABLE from the AOR web site with free supporting PC control software available from the internet.

ARD-2 - Go-anywhere ACARS / NAVTEX

ACARS / NAVTEX DECODER & DISPLAY UNIT



If you think that data reception of aircraft ACARS and marine NAVTEX is only for experienced professional commercial operators, the ARD-2 may cause you to think again. This decoder & display unit has been designed with both the newcomer and experienced "go anywhere and everywhere" operators in mind.

The ARD-2 provides portable operation from internal batteries or external 12V d.c. without the need for a computer. The built-in LCD provides two lines of text with up to 32 characters of text per line and a scroll back buffer of 512 characters.

Imagine sitting at an airfield with the ARD-2 in one hand and a hand-portable receiver in the other (such as the AR8200) with just a single connecting cable between them... its that simple. As ACARS activity is highest during take off and landing, you will see first-hand 'what is happening'... 'who & what' is going 'where & when' !

The ARD-2 is just as capable at home offering reception of ACARS and NAVTEX. NAVTEX traffic (audio signal from a short wave receiver tuned in SSB such as the AR7030) is every bit as interesting with search & rescue, weather warnings and other routing traffic being regularly transmitted.

Getting started could not be easier, the ARD-2 is as simple as connecting audio from a suitable radio receiver and switching on:

- 1) Connect the AOR AR5000 to the AF IN of the ARD-2 using the supplied lead.
- 2) Select the local ACARS VHF airband primary frequency in AM mode: 131.550 MHz in the USA, Canada & Pacific, 131.450 MHz in Japan and 131.725 MHz in Europe.
- 3) Adjust the volume of the AR5000 to the 11 o'clock position.
- 4) Switch on the ARD-2 and away it goes, text will be decoded automatically by the ARD-2 and displayed on the LCD two lines at a time.

NAVTEX is easy too... select NAVTEX-E, tune the AR5000 to a NAVTEX frequency (such as 518 kHz), select SSB... and a whole new world opens up. Changing receive data mode is easy, just press one of the four mode keys:

- [1] ACARS-1 mode (default) - airband ACARS
- [2] ACARS-2 mode, raw data output, ideal for computer control - airband ACARS
- [E] NAVTEX-E English language - marine NAVTEX
- [J] NAVTEX-J Japanese character set for use in the coastal waters around Japan, requires connection to an external PC which supports the Japanese character set.

A built-in speaker with volume control allows you to monitor activity and assess what is going on, this is particularly useful for fine tuning of NAVTEX and enables you to shut the sound off completely when not required. A LEVEL control provides threshold adjustment to achieve the best capture of weaker signals for improved differentiation between noise and data.

Sockets are provided on the front and rear panels for external speaker and earphone connection etc. A 9-pin RS232 socket is also provided to enable connection to a computer for improved comfort when viewing for extended periods, the RS232 connecting lead is supplied with the ARD-2. A free PC Windows based supporting package is available as a download from the AOR web site, the ARD-2 will also communicate with other third-party software packages to provide even further functionality.

- ☆ 'Go-anywhere' portable ACARS / NAVTEX decoder with built-in LCD
- ☆ Simple to operate
- ☆ Operation from 4 x AA internal batteries or 12V external d.c.
- ☆ COM connector for RS232

Specification

Model	ARD-2 ACARS/NAVTEX decoder
Power Supply	12V dc or 4 x AA battery cell
Current Consumption	Max 280mA
Fuse	1A instantaneous
Decode Signal	
ACARS	Modulation MSK Carrier 2400 Hz Bit rate 2400 bps Code type NRZ Length of 1 character 7 bit+1 parity CCIR Rec476-2B Mark 1615 Hz Space 1785 Hz Shift 170 Hz Bit rate 100 bps Length of 1 character 7 bit
NAVTEX	
Display	LCD 16 character x 2 line
Control	LED 4 x Mode Selection (green) 1 x DECODE (red)
Key	4 x Mode Selection 1 x Scroll UP 1 x Scroll DOWN 1 x Back Light ON/OFF 1 x Decode Restart
Audio signal	
Input	3.5 mm mono jack Input impedance 1k OHM Input level 0.2 - 2V p-p External speaker 3.5mm mono jack Earphone socket: two, each on front and rear panel
Serial interface	Connector: D-Sub 9-P male Baud rate: 9600 bps Data length: 8 bit Stop bit: 1 Parity: None Flow control: RTS hard flow
Operating temp	0 - 45° C
Dimensions	158L x 109W x 53H mm excl projections
Weight	330g excl. batteries

PC SOFTWARE CONTROL FOR AOR PRODUCTS



SPECTRUM-MASTER

Windows based PC software for the **AR5000** & **AR5000+3** receivers. Features both a graphical and text based user interface. Frequency control, change of receive mode, scan, search, spectrum display, memory management, bandplan editing, on-screen help and more... The CD-R also contains a collection of free AOR software including Scheduler, Data-Base II, AOR Clock etc. Supplied on CD-R with 3.5inch floppy disk copy protection tokens for five installations. Officially supports W95 & W98, operation on W3.1x, NT4, W2000 is not officially supported. Minimum requirement is a P100 with VGA graphics (preferably 800x600), 32MB RAM, CD-ROM & one spare RS232 port. Demo versions available from the AOR web sites.



DATA-MASTER

Windows based PC software for the **AR7030**, **AR7030 PLUS** & **AR3030** receivers. Features both a graphical and text based user interface. Frequency control, change of receive mode, memory management, on-screen help and more... There are many additional utilities such as an integrated logbook, listening aids and MufSight propagation prediction software. The CD-R also contains a collection of free AOR software including Scheduler, Data-Base II, AOR Clock etc. Supplied on CD-R with 3.5inch floppy disk copy protection tokens for five installations. Officially supports W95 & W98, operation on W3.1x, NT4, W2000 is not officially supported. Minimum requirement is a P100 with VGA graphics (preferably 800x600), 32MB RAM, CD-ROM & one spare RS232 port. Demo versions available from the AOR web sites.



SEARCHLIGHT for Windows

Windows based PC software for the **AR3000A** & **AR3000** receivers. Features a predominantly text based user interface. Frequency control, change of receive mode, memory management, spectrum display, logging including sound-to-disk, on-screen help and more... Supplied on 3.5inch floppy disk with copy protection tokens for five installations. Officially supports W95 & W98, operation on W3.1x, NT4, W2000 is not officially supported. Minimum requirement is a P100 with VGA graphics (preferably 800x600), 32MB RAM & one spare RS232 port. Demo versions available from the AOR web sites.



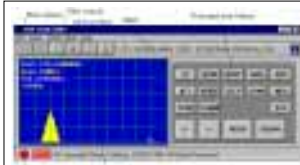
PC-MANAGER for Windows

Windows based PC software for the **AR8000** & **AR2700** receivers. Features a predominantly text based user interface. Frequency control, change of receive mode, memory management, spectrum display, logging including sound-to-disk, on-screen help and more... Supplied on 3.5inch floppy disk with copy protection tokens for five installations. Officially supports W95 & W98, operation on W3.1x, NT4, W2000 is not officially supported. Minimum requirement is a P100 with VGA graphics (preferably 800x600), 32MB RAM & one spare RS232 port. Demo versions available from the AOR web sites.



CONCERTO

Windows based PC software for the **AR3030** short wave receiver. Features a predominantly text based user interface. Frequency control, change of receive mode, memory management, spectrum display, on-screen help and more... Supplied on 3.5inch floppy disk with copy protection tokens for five installations. Officially supports W95 & W98, operation on W3.1x, NT4, W2000 is not officially supported. Minimum requirement is a P100 with VGA graphics (preferably 800x600), 32MB RAM & one spare RS232 port. Demo versions available from the AOR web sites.



HAWK5000 for Windows

Windows based PC software for the **SDU5000** spectrum display unit. Features a graphical based user interface and provides frequency control, change of receive mode, spectrum display and save trace to disk in AVI format, on-screen help and more... Supplied on 3.5inch floppy disk with copy protection tokens for five installations. Officially supports W95 & W98, operation on W3.1x, NT4, W2000 is not officially supported. Minimum requirement is a P100 with VGA graphics (preferably 800x600), 32MB RAM & one spare RS232 port. Demo versions available from the AOR web sites.

AOR FREE SOFTWARE VIA THE INTERNET

There are many internet FREE DOWNLOAD software packages available from the AOR web sites. They are generally zipped into a single file to reduce transfer time and aid simplicity. Officially supports W95 & W98, operation on W3.1x, NT4, W2000 is not officially supported. Minimum requirement is a P100 with VGA graphics (preferably 800x600), 32MB RAM & one spare RS232 port. The web sites also offer links to other software sites, technical bulletins, short wave listener guide, technical & sales material and plenty more...

AR8200 / AR8600: PC control software '**AR8200 WORKSHOP**', file size is around 2.2MB. Graphical & text interface, frequency control, logging, sound-to-disk, bandplan editing etc... also supports the AR8200 Series-2 and AR8600.

AR8200: PC control software '**AREX8200**' authored in Japan with text translated into English language, an alternative predominantly graphical alternative for control of the AR8200. This software is available only from the Japanese site, the main address is:

<http://www.aorja.com/software.html> with the current specific file being: <http://www.aorja.com/download/english/AREX8204E.exe>

ARD-2: PC display software, file size is around 962kB

AR7030/3000/3030/3000A: PC control timer program '**AOR Schedule**' with record-to-disk capability, file size around 730kB

SDU5500: PC control of the SDU5500, graphical interface with video recording etc, file size around 887kB

AOR digital world time clock, file size around 192kB

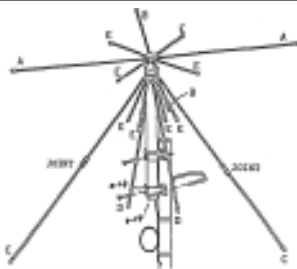
AOR Data-base Toolkit II - useful data-base tool, previously only supplied with Data-Master & Spectrum-Master, this is a revised FREE FULL VERSION, file size around 6.9MB

VISIT THE AOR
INTERNET WEB SITES

www.aorja.com

www.aoruk.com

www.aorusa.com



DA3000

16 element wide band disccone aerial specifically designed to meet the demands of a continuous coverage wide band receiver such as the AR5000 & AR3000A - of course it is suitable for other similar coverage receivers. Usable coverage is 25 MHz to 2,000 MHz (2 GHz). Supplied with 15m of coaxial cable and terminated in a BNC plug.



SA7000

Twin element ultra wide band passive receive aerial providing a usable frequency coverage from 30 kHz to 2,000 MHz (2 GHz). Supplied with 15m of coaxial cable and terminated in a BNC plug. The SA7000 is ideally suited to locations where you do not wish to draw attention to the fact that a receiving station is in operation where the alternative would

be a disccone and long wire combination.

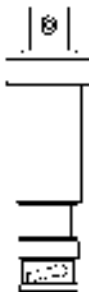


LA320

The LA320 is a short wave table-top active loop aerial which is supplied with two interchangeable aerials as standard covering 1.6 - 5.0 MHz (bar) and 5.0 - 15 MHz (loop). The LA320 has a tuning control mounted on the front cabinet (to peak performance) and the elements may be rotated to enhance reception and null unwanted interference. The aerial is powered by an internal 9V battery (PP3 supplied), a BNC coaxial patch lead is also provided. The LA320 is ideal to place in a suitcase for occasional travelling. Two additional bar elements are available as options to further extend the operation frequency coverage:

320L Element 0.2 - 0.54 MHz

320M Element 0.54 - 1.6 MHz



ABF125

VHF Airband filter 108-136 MHz to improve strong signal handling especially of hand-held receivers. BNC male & female for straight forward connection.

Specification

Model...	ABF125
Bandpass Coverage...	108 - 136 MHz
Nominal Impedance...	50 OHM
Through Attenuation In Band...	4dB
Attenuation typically 0.3 - 75 MHz...	25dB minimum
Attenuation typically 190 - 400 MHz...	20 dB minimum
V.S.W.R. in band...	2:1
Aerial input...	BNC socket (J)
Aerial output...	BNC plug (P)
Size (length)...	73.5mm
Weight...	52g



AS5000 External aerial switching unit for the AR5000



MA500 VHF-UHF mobile whip aerial on magnetic base. Supplied with about 4m of coax & BNC plug

DA900 Flexible wide band whip aerial 245mm in length, black BNC plug. Popular with ALL makes.

TW500 Telescopic whip aerial 625mm in length, BNC plug. Ideal for the "edge" in VHF listening while hand portable. BNC plug

RA8600 Telescopic whip aerial 650mm in length, seven section on a swivel BNC plug. As supplied with AR8200 Series-2 and AR8600

RA2001 Right-angled telescopic aerial terminated in a BNC plug as used with the AR3000A

TW7030 Telescopic whip on right-angled PL259 (for short wave use), suitable for the AR7030 and other short wave receivers

Many other accessories are available such as PC control leads, interfaces, record leads, soft cases, 455kHz filters, service manuals and more...