



R8500-02

SPECIFICATIONS

Frequency Range 100 kHz - 1999.99 MHz
less cellular

Power 13.8 VDC 2A or 110 VAC

Antenna Impedance .. 50 ohm unbalanced

Selectivity (-6dB) FM-N 5.5 kHz
FM/AM 12 kHz
FM-W 150 kHz
SSB/CW 2.2 kHz

Sensitivity -14 dB μ 2-30 MHz
-10 db μ 30-999.9 MHz
-10 db μ 1240-1300 MHz
SSB (10 dB S/N)

Spurious Rejection >60 dB 1.5-30 MHz
>50 dB 30-1000 MHz

IF Shift Range \pm 1.2 kHz

Dynamic Range 107 dB

Frequency Stability \pm 100 Hz <30 MHz
 \pm 3 PPM >30 MHz

Circuit Type. Triple Conversion except
Dual Conversion on WFM

Audio Output 2 Watts 4 - 8 Ohms.

Dimensions 11.3" x 4.4" x 12.16"
(287x111x308 mm)

Weight 17.7 Lbs. (22 Lbs. ship)

The **R8500-04 GOVT** model is the same as the **R8500-02**, but *without* the 824-849 / 869-894 MHz cellular gap and can be purchased via gov't. or qualifying commercial purchase order or for export *only*. **Order #0663 Call**

The R8500-02 produces performance, coverage and sophistication rarely seen outside the military commercial market. Covering 100 kHz to 1999.99 MHz (less cellular), this receiver does cover it all; and more importantly; it does it *well* throughout this extraordinary range. Most wideband receivers tend to perform only modestly below 30 MHz.

The R8500 (and R9000) are clear exceptions to this rule. Reception modes include AM, LSB, USB, CW, FM-N and FM-W. This receiver is equipped with IF Shift and Auto Peak Filter functions ... a first for receivers in this class. The IF shift effectively rejects nearby signals in the SSB modes. The APF can select between two bandwidths and serves as a tone control in the FM mode and can also selectively boost signals in the CW mode. Triple conversion and advanced RF circuits achieve an improved dynamic range of 107 dB and an intercept point of 27.5 dBm. Separate band pass filters minimize cross modulation and provide high sensitivity in the .1 to 30 MHz range. The R8500 employs a newly designed PLL circuit which provides tuning and readout resolution to an amazing 10 Hz. A host of tuning steps are featured: 10, 50, 100 Hz, 1, 2.5, 5, 9, 10, 12.5, 20, 25, 100 kHz and 1 MHz. In addition you can program your own tuning step (.5-199.5 kHz). And what a memory system! 1000 channels are available, organized in 20 banks of 40 channels, plus 100 skip channels and 100 Auto Write Memories. Other refinements include: Noise Blanker, S and Center Tune Meter, RF Attenuator, LCD Dimmer, Clock-Timer, Record Jack and Recorder Activation Jack, Selectable AGC, Main Dial Tension adjustment and



OPTIONS

#	Item	Description	Price
0828	AH7000	Omni Antenna (pg 50)	\$159.95
1479	CR293	High Stability(\pm 0.5 ppm)	279.95
0903	FL-52A	CW Filter 500 Hz	169.95
1088	MB-23	Carry Handle	12.95
3765	RS-R8500	Win software & cable	67.95
1473	SP21	External Speaker	99.95
3437	UT102	Voice Synthesizer	59.95

3 separate antenna connectors (covering 2 ranges: .1-30 and 30-2000 MHz). Supplied with AC adapter or may be run from 12 VDC. We are proud to offer this exceptional receiver. Please do check with us for current pricing on this model.

PRICING

R8500-02 List Price \$2156.00
R8500-02 Discount Price
 Order #1850 \$1499.95



PCR1000-02 BON



PCR1000-02 BON List Price \$629.00
PCR1000-02 BON Discount Price
 Order #1002 \$399.95

The **PCR1000-07 BON GOVT** model is the same as the **PCR1000-02 BON**, but *without* the 824-849 & 869-894 MHz cellular gap and can be purchased via gov't. or qualifying commercial purchase order or for export *only*. **Order #2201 Call**

OPTIONS

#	Item	Description	Price
0828	AH7000	Omni Antenna (pg 50)	\$159.95
0571	CP12	Cigarette lighter plug	27.95
0833	OPC131	Fused DC power cord	10.95
3097	UT106	DSP Notch/NR Unit	139.95

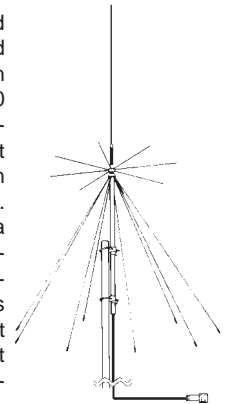
The Icom PCR1000 wideband computer receiver connects externally to your PC. This provides compatibility with many computer models, even laptops. Incredible coverage is yours with reception from 10 kHz to 1300 MHz (less cellular). Modes of reception (and bandwidth) include AM (15/6 kHz), W-FM (230 kHz), N-FM (15/6), SSB (2.8 kHz) and CW (2.8 kHz). A triple conversion circuit ensures good performance over the entire range. Shortwave sensitivity (1.8-28 MHz) is 0.28 μ V. You can choose from three interface screens: Communications Receiver Screen, Component Receiver Screen or Radio Screen. Other refinements include: Unlimited Memories, Band Scope, IF Shift, NB, AFC, Voice Scan Control, CTCSS decode, six scan types and on-line help. A built-in speaker is provided. Jacks include: BNC antenna, mini stereo audio out, DB-9F RS-232C and mini Packet. System requirements: PC with 486DX4, Pentium 100 or higher CPU, Windows 3.1/95, 16 Mb RAM, 3.5" FD, 10 Mb HD space and VGA or SVGA display. This latest version also includes the Bonito software CD with extra capabilities and the ability to run on later versions of Windows. The PCR1000 comes with the BC123A AC adapter, but can also be powered from 12 VDC at 0.7 Amps (with optional #0833 OPC-131 DC power cable \$10.95). An RS-232C cable, and telescopic antenna are also included. The Icom software comes on two 3 1/2" diskettes. Only 5"x7.9"x1.2" (127x200x30 mm) 2.3 Lbs.

The price shown is after manufacturer's discounts. Please call or see our website to confirm price.



AH7000

The AH7000 receives solid from 25 to 1300 MHz and can be used for transmit on 50, 144, 430, 900 and 1200 MHz ham bands. The disccone design offers the best performance possible in an omnidirectional antenna. This 5 1/2 ft. (1.7m) antenna attaches to a mast (not supplied) with two supplied U-bolts. The AH7000 comes with a preassembled 50 foot cable with an N connector at each end. Connects directly to the Icom R7000, R7100 or current R8500.



Icom AH7000 Antenna

Order #0828 \$159.95

Universal 25 Foot N Extension Cable RG8x
 Order #2542 \$29.95

Universal 50 Foot N Extension Cable RG8x
 Order #1633 \$39.95

UG349/AU N to BNC adapter for PCR1000
 Order #4571 \$4.95

See pages 50 & 51 for more wideband antennas.

Visit Universal on the web at:
www.universal-radio.com

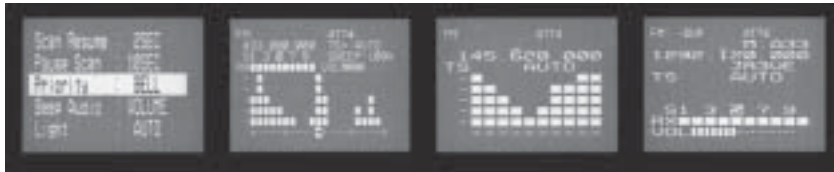
Wideband Receivers

ICOM R3



What a cool idea this is! The ICOM R3 has wideband coverage from .5 to 2450 MHz (less 816-902 MHz) in AM, FM wide, FM narrow and TV. Yes, the R3 has a built-in 2 inch TFT color TV screen. You will be able to receive regular TV, but that is only the beginning. Imagine tuning to the UHF ham radio "fast scan" frequencies and seeing live ham transmissions. In fact with this coverage, you may be able to see all kinds of video links and wireless cameras, depending on your location! The display can also be used as a spectrum bandscope (up to 500 kHz) and to display the various operational menus. There is also a second mono LCD display that can be used for conventional frequency display purposes when battery life is a concern. The R3 is loaded with features. You get a huge 450 alphanumeric memory system (divided into 9 groups), 4-step attenuator, video and audio outputs, auto power off, a 4 position joy stick and BNC type antenna. A tone squelch system is built-in to provide quiet stand-by. The tone squelch includes two functions. The Pocket beep function alerts you with a beep when a specified station's signal is received. The tone scan function is used for the receiving signal such as for a repeater. This radio comes with BP-206 Lithium Ion battery, charger, belt clip and antenna. Prices shown are after manufacturer's discounts and valid at press time. Please call **1 800 431-3939** or visit our website to confirm current pricing
Icom R3-26 Order #3333 **\$369.95**

The **R3-27 GOVT** model is the same as the **R3-26**, but *without* the cellular gaps. It can be purchased by govt. purchase order or for export only.
Icom R3-27 Order #3334 **Please Call**



SPECIFICATIONS

Frequency Range 500 kHz - 816 MHz
 902 - 2400 MHz
 Modes AM, FM-N, FM-W, TV
 Circuit Type Triple Conversion
 Quad above 1150 MHz.
 Sensitivity AM@10 DB S/N:
 1.80µV .5-5 MHz
 1.00µV 5-30 MHz
 0.71µV 118-136 MHz
 FM@10 DB SINAD:
 0.32µV 30-600 MHz
 0.56µV 600-1400 MHz
 0.71µV 1400-2000 MHz
 3.20µV 2000-2400 MHz
 Selectivity 12 kHz AM/FM-N,
 15 kHz FM-W
 Stability ±6 ppm max.
 Antenna Jack BNC 50 ohm
 Output Power 105 mW 8 ohms 10% Dist.
 Dimensions 2.4 x 4.7 x 1.3 inches
 61 x 120 x 33 mm
 Weight 11 oz (290 g)

OPTIONS

#	Item	Description	Price
1240	BC135	Desktop rapid charger	\$59.95
3678	BP206	Lithium Ion Battery	46.95
0498	CP18A	Cigarette lighter adapter	22.95
4223	CSR3	Win program software	20.95
2453	LC-151	Carry Case	18.95
0918	OPC-474	R3 to R3 Clone Cable	16.95
1180	OPC-478	R3 to PC Clone Cable	34.95
0940	SP13	Mono Earphone	3.95

ICOM R5-06



It began with the R1 ... the first wideband receiver to fit in your pocket. The R2 offered further improvements and now we have the refined Icom R5. Again at only 2.3"x3.4"x1.13" (58x86x27 mm) it is absolutely packed with features. And it is big on coverage, tuning from 150 kHz to 1309.995 MHz (less cellular and gaps) in these modes: AM, FM Narrow and FM Wide. The triple conversion circuit provides amazing sensitivity for the size. It has 1200 channels of memory storing: frequency, mode, step size, duplex direction and offset, CTCSS tone, tone squelch and skip settings. The R5 supports six types of scanning. Both automatic and manual Squelch are supported and CTCSS/DTCS decode is built in! Other features include: attenuator, LCD lamp, auto power off (30/60/90/120 mins.) and battery save. A built in ferrite bar antenna improves AM band (MW) performance. There are several power saving functions including backlit LCD timer. The R5 helps you stay out of Mother Nature's way with the Weather Radio alert function. When the National Weather Service issues a severe weather bulletin over the selected weather channel, the R5 emits an audio alert, then stays on that channel for the relay of pertinent information. Operation of the R5 is possible from a wide variety of power sources and the external DC jack also provides a power source and acts as a charger for AA NiCad-type batteries. The R5 comes with: BC149A wall charger, two NiCd AA cells, flexible SMA antenna, belt clip, wrist strap and Owner's Manual.
 List \$239.99 Order #0005 **\$199.95**

SPECIFICATIONS

Frequency Range 150 kHz - 824 MHz
 849 - 869 MHz
 894 - 1309 MHz
 Modes AM, FM-N, FM-W
 Frequency Step 5, 6.25, 9, 10, 12.5, 15, 20,
 25, 30, 50 or 100 kHz
 Sensitivity AM 1.3 µV .5-5 MHz¹
 AM .71 µV 5-30 MHz¹
 AM .56 µV 118-136 MHz¹
 FM-N .20µV 30-118 MHz²
 FM-N .18µV 118-175 MHz²
 FM-N .22µV 175-330 MHz²
 FM-N .25µV 330-430 MHz²
 FM-N .22µV 430-450 MHz²
 FM-N .25µV 450-470 MHz²
 FM-W .71µV 76-108 MHz²
 FM-W .71µV 175-222 MHz²
 FM-W 1.0µV 470-770 MHz²
 Selectivity AM, FM-N 15 kHz -6 dB
 FM-W >150 -8 dB
 Antenna Jack SMA
 Output Power 100 mW 8 ohms 10% Dist.
 Dimensions 2.3x3.4x1.1" 58x86x23mm
 Weight 6oz (185 g)
¹(10 dB S/N) ²(12 dB SINAD)

The **R5-11 GOVT** model is the same as the **R5-06**, but *without* the cellular gaps. The **R5-11 GOVT** can be purchased via government or qualifying commercial purchase order or for export only.
 Order #1935 **Call for price**

#	Item	Description	Price
3034	CSR5	Win Clone Software CD	\$32.95
0498	CP-18A	Cigarette Lighter Cable	22.95
1446	HP-4	Mono Headphones	22.95
0967	LC-146A	Carry Case	19.95
0918	OPC-474	R5 to R5 Clone Ser.Cbl.	16.95
1180	OPC-478	R5 to PC Clone Ser.Cbl.	34.95
0961	OPC-478U	R5 to PC Clone USB C.	44.95
0940	SP13	Mono Earphone	3.95
0531	SMA-BNC	Converts BNC to SMA	5.89

These accessories may all be viewed at:
www.universal-radio.com



R10-05



The **R10-15 GOVT** model is the same as the R10-05, but *without* the cellular gaps. The **R10-15 GOVT** can be purchased via government or qualifying commercial purchase order or for export only.
List \$503.00 Order #3551 **\$369.95**

Tune in the world wherever you go. The R10 has extremely wide coverage from .5 to 1300 MHz (less 824-849 & 869-894 MHz cellular). This radio performs. It is a triple conversion superheterodyne and utilizes newly designed, tunable band-pass filters for good image and intermodulation rejection. The internal speaker provides powerful clear audio. The R10 also features a real-time bandscope function making it easy to find busy frequencies and also easy to observe the receiving frequency band conditions. The passband width of the bandscope is selectable from the radio of ± 100 kHz (20 kHz channel spacing) and ± 25 kHz (5 kHz channel spacing). A sophisticated 1000 channel memory system with 8-character alphanumeric channel names offers great convenience. Even the memory banks can be labeled with a 10 character name. Scan types include: programmed, memory, bank, mode and more. The new SIGNAV Signal Navigation scan function is also featured. Icom's special VSC Voice Scan Control stops only on voice signals. Other refinements include: NB, NL, Attenuator and AFC. The R10 is very computer friendly! You can clone, or download your R10 using optional Icom CSR10 software and OPC-478 PC Cloning Cable. (For PC control you will also need optional CT-17). The R10 comes with four AA NiCad cells, a wall charger, belt clip, wrist strap and flexible antenna. You may also operate this radio from four alkaline AA cells. (Prices shown are after manufacturer's discounts and are subject to change).
List \$503.00 Order #3550 **\$299.95**

SPECIFICATIONS

Frequency Range	.... 500 kHz - 824 MHz 849 - 869 MHz 894 - 1300 MHz
Modes	..... AM, FM-N, FM-W, CW, LSB and USB
Frequency Step	..... .1, .5, 1, 5, 6.25, 8, 9, 10, 12.5, 15, 20, 25, 30, 50 or 100 kHz & user def.
Sensitivity	..... AM 1 μ V 5-200 MHz ¹ CW .25 μ V 5-200 MHz ¹ FM-N .32 μ V 5-200 MHz ² FM-W 1 μ V 75-200 MHz ² FM-W 2.2 μ V 200-400 MHz ²
Selectivity	..... AM, FM-N 15 kHz -6 dB FM-W >150 -6 dB SSB, CW >4 kHz -6dB
Antenna Jack	..... BNC
Output Power	..... 120 mW 8 ohms 10% Dist.
Dimensions	..... 2.3"W x 5.1"H x 1.2"D 58 W x 130 H x 32 D mm
Weight	..... 11 oz (310 g) ¹ (10 dB S/N) ² (12 dB SINAD)

OPTIONS

#	Model	Item Description	Price
3150	CP-12L	Cigarette Plug & Filter	\$27.95
2483	CS R10	DOS Cloning Software	9.95
4020	CSWHHRX	Win. Software & Cable	39.95
2771	CT-17	Level Converter	129.95
0149	LC-140	Carrying Case	29.95
1666	OPC-254L	Charging Cord	10.95
1180	OPC-478	PC to R10 Clone Cable	34.95
0918	OPC-474	R10 to R10 Clone Cable	16.95



R20



The **R20-11 GOVT** model is the same as the R20-06, but *without* the cellular gaps. The **R20-11GOVT** can be purchased via government or qualifying commercial purchase order or for export only.
Order #1442 **Call for price**

Tune in the world where ever you go. The ICOM R20 has extremely wide coverage from 150 kHz to 3304.999 MHz (less 824-849 & 869-894 MHz cellular). Modes of reception include: FM, WFM AM, USB, LSB, CW. This radio has two VFOs with dual watch capability. A built-in 32 MB IC audio recorder can record 1, 2 or 4 hours of reception (playback quality will be less on 2 or 4 hour settings). A total of 1250 memories are featured: 1000 regular, 25 scan edge and 200 auto-write scan. And this is Icom's fastest scanning radio at 100 channels per second in VFO mode. Enjoy three types of priority watch: Memory Channel Watch, Memory Scan Watch and VFO Scan Watch. CTCSS/DTCS/DTMF decode is built-in. The large two line dot-matrix LCD can be programmed for 8 character channel names. You can "see" your signals with the built-in band scope. The sweep range can be set from ± 14 kHz to ± 1400 kHz. Other advanced features include: Voice Scan Control (opens squelch only when a modulated signal is detected), Auto Squelch, Attenuator, key lock, RF Gain, Noise Blanker, ANL and AF filter. A built-in ferrite bar antenna improves medium wave reception. Weather channels and weather alert (USA version only) are featured. CI-V PC control compatibility is supported with optional CT-17. PC programming is available via the optional CS-R20 software CD (with USB cable). The special "Set Mode Menu" allows you to tailor many operational parameters to your personal taste including: Priority Watch, Key-touch beep, beep level, power save, NB/ANL/AF filter functions, AM antenna selection, scope audio, dial speed, etc. Your R20 is preprogrammed with TV and popular shortwave channels. The R20 comes with: BC149A wall charger, BP206 Li-ion battery pack, MB-98 belt clip, battery spacer, telescopic antenna and wrist strap. At press time this radio has been F.C.C. approved, but Icom has not yet announced a price. Description, features and specifications are are subject to change. Please call or visit our website for up to date info. on pricing and availability.
List T.B.A. Order #0020 **Please call for price**

SPECIFICATIONS

Frequency Range	.... 150 kHz - 824 MHz 849 - 869 MHz 894 - 3304.9 MHz
Modes	..... AM, FM-N, FM-W, CW, LSB and USB
Frequency Step	..... .1, .5, 1, 5, 6.25, 8.33, 9, 10, 12.5, 15, 20, 25, 30, 50, 100, 200 kHz
Sensitivity	..... AM 1 μ V 5-200 MHz ¹ CW .25 μ V 5-200 MHz ¹ FM-N .32 μ V 5-200 MHz ² FM-W 1 μ V 75-200 MHz ² FM-W 2.2 μ V 200-340 MHz ²
Selectivity	..... AM, FM-N 12 kHz -6 dB FM-W >150 -6 dB SSB, CW >3 kHz -6dB
Antenna Jack	..... BNC (50 ohms)
Output Power	..... 100 mW 8 ohms 10% Dist.
Dimensions	..... 2.3"W x 5.7"H x 1.2"D 58 W x 140 H x 31 D mm
Weight	..... 10 oz (300 g) ¹ (10 dB S/N) ² (12 dB SINAD)

OPTIONS

#	Model	Item Description	Price
1445	BC-156	AC Rapid Charger	T.B.A.
3678	BP-206	Li-ion Battery 3.7V	\$46.95
0498	CP-18A	Cigarette Plug & Filter	22.95
1493	CS-R20	Win Clone CD & Cable	T.B.A.
2771	CT-17	Level Converter	129.95
3517	MB-86	Swivel Belt Clip	7.95
1454	LC-158	Carrying Case	T.B.A.
0940	SP-13	Mono Earphone	3.95

Wideband Receivers



VR-5000



The Yaesu VR-5000 provides sophisticated wideband reception. Coverage is from 100 kHz to 2600 MHz (2.6 GHz) less cellular, in AM, FM-N2, FM-W, LSB, USB and CW. This radio features a real-time bandscope and you get 2000 alphanumeric memories grouped into 100 banks. Optional aids such as a DSP unit, voice synthesizer and digital voice recorder are available. Jacks on the back panel include: Mute, 13.8 VDC input, External Speaker, 10.7 MHz IF Output, Antenna Input A (SO-239 50 ohm) & B (Hi Z 450 ohm), CAT Interface Jack (4800/9600/57600 bps). The VR-5000 comes with the PA28B 117 VAC adapter and a DC power cord. This radio is only 7.1x2.75x8 inches 4.2 Lbs (180x70x203 mm 1.9 kg). Please visit our website for full specs, color photos and current price.

ACCESSORIES

- #3545 **DSP-1** DSP Notch/NR/Bandp. \$109.95
- #0560 **DVS-4** Digital Voice Recorder 44.95
- #2006 **FVS-1A** Voice Synthesizer 39.95

PRICING

- VR-5000 List Price \$754.08
- VR-5000 Discount Price**
- Order #0050 **Please Call**

SPECIFICATIONS

- Frequency Range .. 100 kHz - 824 MHz
- 849-869 MHz
- 894-2600 MHz
- Modes AM, AM-N, AM-W, FM-N,
- Memories 2000 plus 5 Preset
- SSB Freq. Step 20/100/500 Hz/1/5 kHz
- Sensitivity AM 1.1 μ V 4-30 MHz¹
- CW .3 μ V 4-30 MHz¹
- FM-N .45 μ V 30-2000 MHz²
- FM-W 1.5 μ V 30-2000 MHz²
- ¹(10 dB S/N) ²(12 dB SINAD)
- Antenna Jacks SO 239 50 ohm
- Terminals 450 ohms unbal.
- Speaker Jack Mono Mini (3.5 mm)
- Supply Voltage 13.8 VDC 0.7 Amps
- Operating Temp. -10°C to + 50°C
- Audio Output 1 Watt 8 ohms
- Dimensions 7.1x2.75x8 inches 4.2 Lbs
- 180x70x203 mm 1.9 kg



VR-500



The Yaesu VR-500 is the first to provide wide-band coverage plus single sideband capability in such a small and capable package. Coverage is solid from 100 kHz to 1300 MHz (1.3 GHz) less cellular, in AM, FM-N, FM-W, LSB, USB and CW. You get 1000 regular memories (10x100) plus tuning steps from 50 Hz to 100 kHz. Other features include: backlit keypad, priority, power-off timers, adjustable battery saver, 60 channel bandscope, attenuator, dual watch, alphanumeric recall, bank scanning Smart Search™. Computer control and clone capabilities are supported with optional items. The VR-500 operates from two AA cells. Includes BNC antenna, hand strap and belt clip. Only 2.3x3.7x1" 8 oz. (58x95x25mm 220 g). List \$399.00 Order #0500 **Please Call**

SPECIFICATIONS

- Frequency Range 100 kHz - 824 MHz
- 849-869 MHz
- 894-1300 MHz
- Modes AM, FM-N, FM-W,
- CW, LSB and USB
- Frequency Step05, .1, 1, 5, 6.25, 9,
- 10,12.5, 15, 20, 25, 30,
- 50 or 100 kHz.
- Sensitivity AM 1 μ V 5-160 MHz¹
- CW .5 μ V 5-160 MHz¹
- FM-N .5 μ V 5-160 MHz²
- FM-W 1.5 μ V 5-370 MHz²
- FM-W 1.8 μ V 370-520 MHz²
- ¹(10 dB S/N) ²(12 dB SINAD)
- Antenna Jack BNC 50 ohm
- Speaker Jack Mono Mini (3.56 mm)
- External Voltage 9 - 13.8 VDC
- Audio Output 90/125 mW 8 ohms
- Dimensions 2.3"W x 3.7"H x 0.9"D 8 oz
- 58 W x 95x 24 D mm 200g

OPTIONS

- #4037 **ADMS3** Win Software & PC cable \$34.95
- #4035 **CSC72** Carry Case 17.95
- #4038 **CT35** Radio-Radio Clone Cable 8.95
- #1693 **EDC5B** DC Cable +Cigar Plug 23.95
- #3116 **EDC6** DC Cable 6.95
- #4036 **FNB59** NiCad Batt 2.4V 500ma 26.95
- #0594 **NC60B** AC Adapter 13.95



VR-120D



The VR-120D is a compact wideband receiver covering 100 kHz to 1299.995 MHz (less cellular and image gaps), in AM, FM-N and FM-W with 640 alphanumeric memories. Scan features include: Full Mem. Scan, Mem. Bank Scan, Selected Mem. Channel Scan, Band-Limit Mem. Scan, Smart Search, Priority Channel Watch and Dual Watch. Manual tuning is via the tuning knob. A built-in AM ferrite loop insures good AM performance. A Channel Counter feature measures the frequency of a strong nearby signal. With BNC antenna, wrist strap and belt clip. 2.3 x 3.8 x 1 inches 8 oz. Requires two AA cells (not supplied). Optional FNB79 NiCad battery is available which will then require NC82/PA30B/CA34 (see below). List \$249.00 Order #3120 **Please Call**

SPECIFICATIONS

- Frequency Range 100 kHz -1300 MHz
- Less cellular and image gaps. See our website for list.
- Modes AM, FM-N, FM-W
- Memories 640 (ten banks of 64)
- Frequency Step 5, 6.25, 9,10,12.5, 15, 20,
- 25, 30, 50 and 100 kHz.
- Audio Output 80 mW 8 ohms
- Antenna Jack BNC 50 ohm
- Ext. DC Voltage 5.5-10 VDC
- Dimensions 2.3x3.4x1" (58x85x26mm)

OPTIONS

- #0384 **CA34** Charging sleeve \$3.95
- #4332 **CSC76** Carry Case 17.95
- #4038 **CT35** Radio-Radio Clone Cable 8.95
- #3646 **EDC15** Cigarette lighter cord 34.95
- #0353 **FNB79** Ni-Cad 2.4V 700 mA 16.95
- #0269 **NC82** Charging Tray 7.95
- #1139 **PA30B** AC Adapter 6.95

BUTEL SOFTWARE

The sophisticated Butel Software supports memory/search banks and auto-mode bandplan. It also includes a professional spectrum analyser applications and other useful tools. Requires: Windows 95/98/ME/XP/2000, 2 MB Video, 15 MB HDspace, CD Drive, COM Port 1 or 2 [USB not supported]. Visit our website for full details.

- | # | Item | For Radio | Price |
|------|------------------|---------------------|---------|
| 2713 | ARC Basic | Bearcat BC250/BC785 | \$39.95 |
| 2721 | ARC 3 | ICOM R3 | 39.95 |
| 0139 | ARC 780 | Bearcat BC780 | 39.95 |
| 2725 | ARC 5000 | AOR AR5000 | 99.95 |
| 0128 | ARC 8200 | AOR AR8200 | 69.95 |
| 2738 | ARC 8600 | AOR AR8600 | 69.95 |





DJ-X3T

The Alinco DJ-X3T wideband receiver covers 100 kHz to 1299.995 MHz (less cellular) in AM, FM wide and FM narrow modes. The illuminated display is large and easy to read. In addition to frequency information, it will also show the operating mode, memory channel, battery strength, signal strength and a number of other user-selected operating parameters. The DJ-X3T can also clone to other DJ-X3 units through a wired connection (cable not provided). The DJ-X3T features 700 memory channels in ten banks of 70 channels each. This radio may be operated with the EBP52S Ni-MH battery (optional) or with three AA cells (optional). FM stereo is available via the earphone jack. The operator has four selectable antenna choices: an internal AM bar antenna, a shortwave bar antenna, the earphone cable may be used as antenna or the SMA whip antenna terminal may be activated. This radio features an attenuator and also has a bug detector function. The DJ-X3T has three operating profiles: VFO, Preset, AM/FM/TV Frequencies and Memory mode. The user can make manual selections or scan in any of those modes. In the memory scanmode, the operator can choose one specified bank, certain banks can be linked for scanning or one can choose to scan all banks. There are 20 program and memory scan options. The configuration distributed by Alinco in the USA does not include the NiMH battery or charger, but these items are available optionally as listed below. The DJ-X3T includes: the radio, removable SMA antenna, wrist strap, belt clip and three AA cell holder [EDH-31S]. One year limited manufacturer's warranty. List \$302.95 Order #1003 \$239.95



OPTIONS

#2669	EBP52NS	NiMH 3.6V 500ma	\$34.95
#1133	EDC93	Wall PS for EDC105	10.95
#1579	EDC105	Charger for EBP52NS	21.95
#1561	EBC18	Belt Clip	4.95

For more information or to view options visit: www.RFfun.com



DJ-X10T

The Alinco DJ-X10T employs a triple conversion super-heterodyne circuit and covers 100 kHz to 2000 MHz (less cellular). Modes of reception include AM/CW/USB/LSB/NFM and WFM. A total of 1200 memory channels are available in 30 banks of 40 channels each. The large, illuminated three line LCD even boasts a 40 segment spectral display. Other features include: dual VFO's, clock, help message menu system, beginner-expert modes, multiple S-meter displays, automatic memory write, multiple scanning modes, battery save function, PC programmable and PC controllable and monitor key. The DJ-X10T comes ready to operate with: BNC flexible antenna, wrist strap, belt clip, charger, EBP-37N NiCad battery and manual. Only 2.25"x6"x1.125" (57x152x28 mm). List \$467.95 Order #3610 \$329.95



OPTIONS

#	Item	Description	Price
1084	EBP-33N	NiCad 4V 650 ma	\$31.95
0731	EBP-34N	NiCad 4V 1200ma	72.95
3166	EBP-37N	NiCad 4V 700ma	28.95
3664	EDC-36	Cigar Filter Cord	19.95
0590	EDH-16	Battery Case 4xAA	9.95
0370	ESC-28	Carry Case (EBP33N)	9.95
0252	ESC-29	Carry Case (EBP37N)	9.95
2107	ESC-30	Carry Case (EBP34N)	9.95
1477	ERW4	PC Interface Cable	34.95
4526	2.5S-3.5S	2.5mm-3.5mm Adapter	2.69

Reminder ...
The use of a scanner or wideband receiver in a vehicle is prohibited in some areas. Check with your local authorities.

VIEW OPTIONS

To view Alinco options please visit our website.



DJ-X2000T

The Alinco DJ-X2000T provides sophisticated wideband coverage on the go! It tunes 100 kHz to 2150 MHz (less cellular) in LSB, USB, CW, AM, NFM and WFM. 2000 Alpha memories are organized in 40 banks of 50 channels each. A triple conversion circuit is employed and ±10 PPM stability is provided. The Instant Search features locks onto the nearest, strongest signal. The Channel Scope™ feature displays signals within a 40 channel or 7 channel range at one time. This function shows spectrum occupancy at a glance. The frequency counter uses a digital TCXO, accurate to ±1 PPM. You can record up to 160 seconds of audio in digital memory. Enjoy FM stereo to the headphone jack (headphones not provided). CTCSS decoder/tone scan is built-in. You even get a 24 hour timer. The DJ-X2000T is PC programmable with a free download from the Alinco website (optional ERW4 and 2.5S-3.5S required).



OPTIONS

#	Item	Description	Price
1084	EBP-33N	NiCad 4V 650 ma	\$31.95
0731	EBP-34N	NiCad 4V 1200ma	72.95
2060	EBP-35N	NiCad 7V 1900ma	74.95
2983	EBP-36N	NiCad 9V 650ma	56.95
3166	EBP-37N	NiCad 4V 700ma	28.95
3664	EDC-36	Cigar Filter Cord	19.95
0708	EDC-37	DC Power cable	6.95
0590	EDH-16	Battery Case 4xAA	9.95
1477	ERW4	PC Interface Cable	34.95
0370	ESC-28	Carry Case (EBP33N)	9.95
0252	ESC-29	Carry Case (EBP37N)	9.95
2107	ESC-30	Carry Case (EBP34N)	9.95
4526	2.5S-3.5S	2.5mm-3.5mm Adapter	2.69

The DJ-X2000T comes with EBP-37N 4.8V 700mAh NiCd battery, EDC-88 drop-in quick charger, drycell holder, metal belt clip, handstrap and BNC flex antenna. 2.25 x 5.6 x 1.2 inches (57x150x30mm). Please visit the Wideband section of our on-line catalog at www.RFfun.com for full specifications. List \$769.95 Order #2020 \$499.95



SDU5600



It has never been so easy to locate brief elusive transmissions. Coupled to the AR5000 or AR8600 series receivers, the AOR SDU5600 provides a color spectrum display of 10 MHz bandwidth (± 5 MHz of center frequency)! Frequency resolution is 4, 32, 64 or 128 kHz. Digital signal processing and fast Fourier transform algorithms combine to make the SDU5600 a very powerful spectrum display. Menu driven operation: All facilities are within easy access through each dedicated function key and on-screen menu. Full interconnection with the AR5000 is achieved. The AR5000 can be operated from the SDU5600 enabling selection of center frequency, receive mode, etc. Direct reading of the receiving frequency and input level: By placing the cursor on any spot frequency, you can read its frequency and input level on LCD screen. When connected with the AR5000, the SDU5600 virtually works as a spectrum analyzer over 10 kHz to 2600 MHz range as the center frequency always becomes the receive frequency. The high resolution, 5 inch, 127 mm (diagonal) color TFT is stunning. The SDU5600 comes with an AC power supply, BNC to BNC cable to connect to the IF output of the AR5000 and a DB9 to DB9 serial cable to connect to the AR5000. There is also a second DB9 serial jack on the back of the SDU5600 use by a controlling computer. The SDU5600 includes an AC adapter. (Please note that this is not a receiver, but rather, an option for a receiver).

SDU5600 Order #0114 \$1449.95

Wideband Receivers



AR5000A+3B



The AOR AR5000A+3B offers exceptional spectrum coverage. Covering all the way from 10 kHz to 3 GHz (less cellular), this "DC to daylight" radio won't miss much! Modes of reception include: AM, FM-N, FM-W, LSB, USB and CW. Six bandwidths are supplied (3, 6, 15, 40, 110 and 220 kHz.) and a slot for a .5 kHz filter is available. The triple conversion circuit and varactor tuned front-end provide excellent overload characteristics. Two thousand memories in 20 banks of 100 are featured. Other features include: two antenna inputs, antenna attenuator, keypad entry, computer control, squelch, S-meter and scanning. May be run from 12 VDC (1 Amp) or via supplied AC adapter. This "plus 3" version adds a Noise Blanker, AFC, more memories and AM Synchronous Detection. Visit our website or request a color brochure .

Order	Model	Frequency Coverage	Extra Features	List Price	Your Price
#0398	AR5000AB ✓	10 kHz to 3 GHz (less cellular)		T.B.A.	T.B.A.
#0408	AR5000AU	10 kHz to 3 GHz Restricted		\$3179.00	\$2499.95
#3705	AR5000A+3B ✓	10 kHz to 3 GHz (less cellular)	+3 NB/AFC/Sync.	T.B.A.	T.B.A.
#3706	AR5000A+3BU	10 kHz to 3 GHz Restricted	+3 NB/AFC/Sync.	3399.00	2599.95
#3724	AR5000C	10 kHz to 2.6 GHz Restricted	Coherent	2699.00	2289.95

SPECIFICATIONS

Frequency Range 10 kHz - 3000 MHz¹
 Modes Received AM ¹cellar blocked
 FM-Narrow, FM-Wide
 LSB/USB/CW
 Intermediate Freq. ... 1st 622.2 MHz
 2nd 10.7 MHz
 3rd 455 kHz
 Sensitivity AM 10dB S/N:
 .6 μV 1.5 -30 MHz
 FM 12dB SINAD
 .3 -2μV 40-2600 MHz
 Freq. Stability ±1 PPM (0°-50°C)
 Selectivity 3, 6, 15, 40, 110, 220 kHz
 Frequency Steps 1 Hz to 999.999 kHz
 Ant. Impedance 50 Ohm
 Power 13.8 VDC ±15% at 1 amp
 Dimensions 8.5" x 3.5" x 10" 10 Lbs.

OPTIONS

#3800	AS5000	Antenna Switch 3/4	\$114.95
#4256	CR5000	Recording cable	29.95
#3801	CT5000	CTCSS Decode	98.95
#4257	DC3000	DC Power cord	8.95
#3852	MF500	Collins Filter 500 Hz	99.95
#0114	SDU5600	Spectrum Display	1449.95
#3871	TV5000A	NTSC TV-Video Adapter	369.95

The SDU5600 is on pg. 21 and TV5000A on pg 23.



AR8600MkIIB



NOTICE:

✓ This device has not been approved by the Federal Communications Commission. This device may not be sold or leased, or be offered for sale or lease, until approval of the F.C.C. has been obtained.

SPECIFICATIONS

Frequency Range 530 kHz - 3000 MHz
 (less cellular).
 Modes WFM, NFM, SFM, WAM,
 AM, NAM, USB, LSB, CW.
 Power 13.8 VDC 0.5 Amps
 Antenna Impedance ... 50 ohm unbalanced
 Selectivity (-6dB) 3/9/12/20/25/150/380 kHz
 Sensitivity 2μV 1.9.-30 MHz AM
 Memories 1000 (20 banks)
 Physical 6.1x2.25x7.7 in 4.5 Lbs

The AOR AR8600Mark IIB is a versatile receiver which can be used virtually anywhere, mobile, base or trans-portable... powered from an external 12 VDC 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 characterizes the multipurpose role. All mode receive capability is provided including Single Side Band with programmable tuning steps down to a resolution of 50 Hz with the frequency established by a highly accurate TCXO. Center stage is a custom multi-section backlit LCD, numeric keypad, navigation keys, rotary tuning control and separate controls for volume and squelch control. The LCD can display alphanumeric text comments. The radio is manufactured with a metal chassis inside a metal cabinet to provide excellent screening characteristics and great robustness. The front panel is also manufactured from die-cast aluminium. 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 to ensure tracking of the most obscure band plans. A wide frequency coverage is available from 530 kHz to 3000 MHz (less cellular) with actual minimum acceptable frequency of 100 kHz. All mode receive: WFM, NFM, SFM (Super Narrow FM), WAM, AM, NAM (Wide, standard, Narrow AM), USB, LSB and CW. A 3.0 kHz SSB filter is employed with true carrier reinsertion resulting in non-offset frequency readout for easy tuning of SSB transmissions. An attenuator and noise limiter are also featured. Computer control is available via a standard 9-pin RS-232 D-type connector on the rear chassis, just a standard RS-232 cable is required for connection to a PC. Free software is available as a download from the AOR web site. The AR8600 comes with an AC power supply, RA8600 telescopic antenna, medium wave plug-in antenna and manual. Order #3299 has TV8600 installed.

AR8600MkIIB Order #1860 \$889.95 AR8600tvMkIIB Order #3299 \$1049.95

ACCESSORIES

#1316	BP8600	NiCad Battery Pack	\$59.95
#1584	DC8600	DC Cord	12.95
#3851	MF-2.5	Collins 2500 Hz filter	99.95
#1215	MF-6	Collins 6000 Hz filter	99.95
#0419	TV8600	NTSC Video Board	124.95

OPTIONAL SLOT CARDS

#1641	CT8200	CTCSS Squelch	\$94.95
#1412	TE8200	Tone Eliminator	54.95
#2808	RU8200	IC Sound Recorder	69.95
#1829	EM8200	External Memory	74.95

Notes: The MF-2.5 and MF-6 are substitute filters, replacing the stock filters. Add \$25 for installation. Full coverage, unblocked versions of AOR models are available for export or gov't. customers.



AR-ONE



The AOR AR-ONE is a professional wideband communications receiver covering 10 kHz to 3.3 GHz in AM, FM, NFM, WFM, LSB, USB, CW modes. It provides laboratory grade stability of 0.1 PPM 14°-122°F (-10°-50°C) and 1 Hz frequency display. It is optimized for surveillance and monitoring applications. The AR-ONE is designed for computer controlled operation and is up to 99 receivers can be controlled by a single PC. (Software not supplied). Other advance features include: ten VFOs and 1000 memories (10x100), attenuator and preamp. Scan and search with pass and delay are fully supported. Many parameters are settable via the configuration menu and using the arrow keys. The rear panel features two RS232 ports, multi-IF outputs (455 kHz and 10.7 MHz) and N type antenna input jack. The compact size of this radio is conducive to mobile or fixed applications. Includes Owner's Manual, AA5000-1 120 AC 60 Hz power supply and DC power cord. Please visit our website for full specifications, color photo and options. The AOR AR-ONE model and other models marked *Restricted* on this page, can be purchased for government or for export *only*.

AR-ONE Order #4560 \$4499.95

OPTIONS

#3455	MM8600	Mobile Bracket	\$69.95
#3680	EXT-ONE	Separation Kit 16 Ft.	274.95



AR3000AB

The AOR AR3000AB offers high performance and wide coverage: 100 kHz -



2036 MHz (less cellular frequencies) in FM-N, FM-W, USB, LSB, CW and AM. 400 memory channels are provided in four banks of 100 channels each. Each memory channel can store: mode, frequency, RF attenuator setting and lockout status. The first channel of each bank may also be used as a priority channel. The scan rate is 50 channels per second and search rate of 50 steps per second. The tuning rate can be as fine as 50 Hz for SSB/CW. The front panel is angled for optimum LCD viewing and keypad entry. Other features include: signal strength indicator, clock with sleep timer, tuning knob, keypad entry, record jack, attenuator and RS-232 port. The rear panel antenna input is a 50 ohm BNC. The AR3000AB runs from 13.8 VDC (0.5 A) or with supplied 110 VAC wall adapter. 5.5x3x7.75 inches (138x80x200 mm) 2.6 Lbs.

AR3000AB Order #3246 \$1079.95

The AR3000AU unblocked model is the same as above, but without the 824-849 / 869-894 MHz cellular gap and can be purchased via government or qualifying commercial purchase order or for export only.

AR3000AU Order #1079 \$1179.95



TVA1



The AOR TVA1 is designed for use with the AR5000 and AR8600 series. It demodulates audio and video NTSC signals. The signal is tapped from the 10.7 MHz IF output of the receiver. There is a switch on the front to select either conventional broadcast NTSC TV [AM] or security camera TV [FM]. There is a second switch to select 5.5 MHz or 6.5 MHz FM subcarrier frequency. The TVA1 operates from 12 VDC with the supplied AC adapter. A 39 inch (1 m) coaxial jumper cable with a male BNC at each end is supplied to connect the TVA1 to the receiver. There is an RCA phono jack for video and an RCA phono jack for audio. These jacks would typically connect to a composite video monitor (not supplied). Most newer televisions also have separate video and audio inputs, and could be used. (Please note that a VGA monitor will not work). Note: Because the AR8600's IF bandwidth, reception of broadcast TV signals will be in black and white only (not color).

TVA1 Order #4605 \$309.95



AR8200MkIIIB



- 500 kHz - 3000 MHz (less cellular)
- All Mode
- 1000 Memories
- 12 Characters per Memory
- 20 Search Banks
- Priority Channel
- Dual VFOs
- Thumbwheel Tuning Dial
- Programmable Step Sizes
- Signal Strength Meter
- Band Scope
- Backlit LCD & Keypad
- Battery Save Function
- Attenuator
- True Carrier Insertion SSB
- Removable MW Antenna
- Optional Slot-Cards
- Computer Control Port
- 12 VDC Input Jack

The AR8200Mark IIIB is an improved handheld receiver that covers 500 kHz to 3000 MHz (less cellular) in: Wide FM, Narrow FM, Super Narrow FM, Wide AM, Standard AM, Narrow AM, USB, LSB and CW. The side keypad has 4 arrow keys presented as a single rocker. 1000 Alpha memories in 20 banks are supplied. The scan-search rate is 37 steps/second. The AR8200 includes: 4 NiCad AA cells, charger, belt-clip, MW antenna and telescopic antenna. The state-of-the-art AR8200 even accepts plug-in slot card options (see below). This may be the best engineered and most capable handheld scanner ever! Now with TCXO, 8.33 kHz air step and more. 2.4"x6"x1.5" List \$839.95 Order #0083 \$589.95

OPTIONAL SLOT CARDS

- #1641 **CT8200** CTCSS Squelch \$94.95
- #1829 **EM8200** External Memory 74.95
- #2808 **RU8200** IC Sound Recorder 69.95
- #1412 **TE8200** Tone Eliminator 54.95

OPTIONS

- #0880 **ABF125** Airband Filter (see pg. 38) \$29.95
- #3007 **CC8200**APC Cable 99.95
- #3802 **IF8200** Raw Interface Cable 19.95
- #3843 **LC8200** Leather Case 21.95
- #3807 **SC8200** Vinyl Case 12.95

VIEW OPTIONS

To view options visit: www.universal-radio.com

TV5000A

The AOR TV5000A is designed expressly for use with the AR5000A series (AR5000AB, AR5000AU, AR5000A+3U, AR5000A+3B). The module mounts internally with no soldering required. It demodulates audio and video NTSC signals (not for PAL). It has the ability to handle conventional TV video broadcasts and security camera video often used above 2 GHz. The video is delivered to the AR5000A's MUTE jack. The audio will come from the radio's speaker. These jacks would typically connect to a composite video monitor (not supplied). Most newer televisions also have separate video and audio inputs, and could be used.



TV5000A Order #3871 \$369.95



SR1050A
SR1050AV



The AOR SR1050A Surveillance System is designed to meet the needs of the surveillance professional. The heart of the system is the AR5000A+3U high-performance wideband receiver covering 100 kHz to 3000 MHz. With accurate 1 Hz tuning, analog signal strength meter and a host of operator-selected features and options, its performance is highly respected by law enforcement, military and laboratory users. Teamed with the SDU5500 Spectrum Display Unit, the package is interactive and computer compatible. The included AS5000 automatic antenna switch works interactively with the AR5000A+3, providing automatic selection among four antennas for maximum receiver sensitivity.

SR1050A Order #3688 \$5999.95

The AOR SR1050AV Surveillance System version can be used as a vector analyzer, for use in monitoring digital communications. Data packets in PDC, PHS and GSM formats can be displayed and identified in binary. It is also possible to see HEX information at a point from which analysis can begin. PDC, PHS and GSM can be viewed from the pre-set mode. A manual mode is also available to change modulation modes and symbol rates. This can be useful in using other applications, such as analyzing modems. The display can depict eye diagram, vector trace, constellation, trellis diagram, hex dump and bin dump outputs. Both systems are conveniently configured for 19 inch rack mounting. Please note that these systems operate strictly on 12 VDC.

SR1050AV Order #3683 \$6899.95

The special order AOR SR1050A and SR1050AV models can be purchased for government or for export only. Please visit our website for further details on these models.



VM-901B
VM-1201B



The ProVideo VM-901B monitor is a high-quality, small metal cased composite monitor. This 9 inch diagonal video monitor has > 800 lines resolution, BNC input. Front controls include: Power, Contrast, Brightness, Horizontal and Vertical Hold. 8.6"W x 9.5"H x 10"D 13 Lbs. 120 VAC 60 Hz.

VM-901B Order #3309 \$159.95

The ProVideo VM-1201B is the same as the VM-901B, but it has a 12 inch diagonal screen. 12" x 11.5" x 12.5" 20 Lbs. 120 VAC 60 Hz 32W.

VM-1201B Order #3310 \$199.95