The Icom IC-R8600 wideband communications receiver raises the bar on sophisticated radio monitoring. The IC-R8600 covers 10 kHz to 3000 MHz (less cellular) in analog and decodes multiple digital protocols, including Baudot RTTY, D-STAR™, NXDN™, dPMR™ and APCO P25. It has a large 4.3 inch color TFT touch screen display with fast spectrum scope and waterfall display. You get a real-time, dynamic display of band activity below and above the tuned frequency. See spectrum activity you would have missed before. The advanced circuit employs modern FPGA/DSP base SDR architecture (under 30 MHz) and traditional superheterodyne circuitry. Superb receive performance is achieved by 11 discrete RF bandpass filters in the HF bands and 13 bandpass filters in the VHF/UHF bands. To prevent overflow, only the intended signal is passed, while any out of range strong interference signals are rejected. The IC-R8600 provides +30 dBm IP3 and 105 dB dynamic range at 14.1 MHz. IP3 performance is +10 dBm at 144 MHz and 0 dBm at 440 MHz. The commercial model shows S-meter, dBµ, dBµ (emf) and dBm meter types in the RSSI (Received Signal Strength Indicator). The dBµ, dBµ (emf) and dBm meter has a high ±3 dB accuracy between 0.5–1100 MHz (±6 dB between 1100–3000 MHz) that can be used for measuring signal strength level.

You get 2000 memories (in 100 groups) that store frequency, mode, tone, step, etc. Optional RS-R8600 PC remote control software allows control of all receiver functions. There is a convenient SD card slot for the received log, decode log and voice recording. Other refinements include: Sleep timer function (5 to 120 min.), Attenuator, Center tune indicator (FM/WFM/each digital mode), Digital AFC, Tone control (HFP/LPF, BASS/TREBLE, De-Emphasis), Noise Blanker, Speech function (Japanese/English), Dial tension adjust, Auto TS function, Main dial & panel lock functions, S-AM (AM sync. det.) and multiple digital squelch settings.

The rear panel features: 10.7 MHz IF Output, LAN Port, Mute Line, Reference I/O, I/O output, External speaker jack, AF/IF output, CI-V, USB port, DC power jack, S meter output, Aux., 3 antenna jacks (N/RCA) and ground terminal. The I/Q signal output supports use with third-party SDR software (emf) and dBm meter has a high ±3 dB accuracy between 0.5–1100 MHz (±6 dB between 1100–3000 MHz) that can be used for measuring signal strength level.

Specifications:

- **Frequency Range**: 10 kHz - 3000 MHz
- **Modes**: SSB/CW/AM/FM/WFM, FSK/D-STAR/P25/NXDN dPMR/DCR
- **Power**: 13.8 VDC ±15% 2A Neg
- **Memories**: 2000 (100 groups) plus: 100 scan edges, 200 auto memory, 100 scan skip
- **Antenna Inputs**: N 10kHz-3000 MHz
- **Power Supplies**: SO-239 10kHz-30 MHz, RCA 10kHz-30 MHz 500 Ohm
- **Stability**: < ±0.5 PPM
- **Operating Temp.**: 14° F to 140° F
- **Freq. Resolution**: 1 Hz
- **Receive Systems**: 10 kHz-30 MHz — Direct Sampling 30-1100 MHz — Double Superheterodyne 1100-3000 MHz — Triple Superheterodyne
- **Selectivity SSB**: 3/2/1.8 kHz and 50 Hz-3.6 kHz variable
- **Selectivity CW**: 1.2/0.5/0.25 kHz and 50 Hz-3.6 kHz variable
- **Selectivity FSK**: 2.4/1.0/0.5 kHz and 50 Hz-2.7 kHz variable
- **Selectivity AM**: 9/6/3 kHz plus 2000 Hz-10 kHz variable
- **FM**: 50/15/7 kHz
- **WFM**: 200 kHz
- **D-STAR**: 15/10/7 kHz
- **P25**: 15/10/7 kHz
- **NXDN**: 15/10/7 kHz
- **dPMR**: 10/7/5 kHz
- **Sensitivity SSB/CW**: 0.1-18 MHz -6 dBµV 1.8-30 MHz -14 dBµV 30-2000 MHz -10 dBµV 2000-3000 MHz -8 dBµV
- **Audio Output**: 2 Watts 8 Ohms.
- **Dimensions**: 8.7 x 3.5 x 9.1 inches (220x90x230 mm)
- **Weight**: 9.5 lbs. (4.3 kg)

R6600-α Full coverage govt. / export version. List $3000.00 Order #0586 CALL/WEB
R6600-α Consumer version. List $3000.00 Order #0086 CALL/WEB

Extra DC Cord
Speaker with filters
Speaker & AC power supply
Remote Encoder
Carry Handle
VHF-UHF Antenna
DC Power Supply
Programming CD
Speaker & AC power
RC-28 - Speaker with filters
RC-28 - Extra DC Cord

IC-R8600 OPTIONS

**Model**
- AD-55NS: AC Power Supply $95.95
- AH8000: VHF-UHF Antenna $269.95
- 2529: CS-R6600 Programming CD $79.95
- 5480: MB-123: Carry Handle $28.95
- 6728: RS-R8600 Remote Control CD $159.95
- 5885: RC-28: Remote Encoder $269.95
- 2039: SP-39AD: Speaker & AC power $249.95
- 5041: SP-41: Speaker with filters $229.95
- 4056: 97716976: Printed Service Manual $30.95
- 2674: CAB1258: Extra DC Cord $21.95

**Description**
- AD-55NS: AC Power Supply
- AH8000: VHF-UHF Antenna
- CS-R6600: Programming CD
- MB-123: Carry Handle
- RS-R8600: Remote Control CD
- RC-28: Remote Encoder
- SP-39AD: Speaker & AC power
- SP-41: Speaker with filters
- CAB1258: Extra DC Cord

**IC-R8600 OPTIONS**

Wideband receivers shown in this catalog do not support the reception of trunked systems. Therefore they are not a strong choice for monitoring public service (police/fire) radio systems found in most larger cities.
The IC-R9500-02 achieves high specification with 5 kHz to 3335 MHz coverage (less cellular). In HF bands, it has 110dB wide dynamic range and +40dBm IP3. The receiver incorporates two independent, 32-bit floating point DSP units, one for the receiver and the other for the spectrum scope. The DSP controlled noise blanker significantly reduces pulse type noise. The digital IF filter allows the operator to adjust the filter shape while filtering. The digital twin PBT narrows and shifts the IF passband, and efficiently eliminates interfering signals. There are five selectable roofing filters: 240, 50, 15, 6 and 3 kHz. The synchronous AM detection provides less distorted audio. Two-point digital manual notch filter reduces more than 70dB at two points with adjustable filter width so two strong beat signals can be eliminated at once. The IC-R9500 has 10 VFO channels; you can tune and store operating frequency, mode, filter bandwidth and other settings. There is an internal digital recorder capable of storing received communications providing up to 60 minutes of recorded time. 1000 memory channels store frequency, mode, filter width and tuning steps. Memory channels are grouped into memory banks. Independent memory and bank knobs are on the front panel. By connecting to a USB keyboard, you can directly edit channel names, etc. Scan modes include: Memory scan, Program scan, F scan, Priority scan, Selected mode memory scan, Selected memory scan and Auto memory write scan. Additional outstanding features include: 4 antenna connectors (SO-239 type and a phone for below 30 MHz, two type-N connectors for above 30 MHz), reverse power protection (HF only), CW and AM modes auto tuning, Voice Squelch Control, S/PDF out jack, Video input/output, optional P25 digital mode.

The R9500-06 is similar to the R9500-02, but without the cellular frequency gaps. This version can be purchased by end-users [government agencies and cellular providers].

The compact IC-R6 Sport-16 is big on coverage, tuning 100 kHz-824 MHz, 851-866.995 and 896-1309.995 MHz in AM, FM Narrow and FM wide modes. The triple conversion superheterodyne circuit provides good sensitivity. It has 1300 alphanumeric memories storing: frequency, mode, step size, duplex direction and offset, CTCSS tone, tone squelch and skip settings. And it can scan up to 100 channels/steps per second in 7 different scan modes. Frequency steps include: 5, 6.25, 9, 10, 12.5, 15, 20, 25, 30, 50, 100 and 200 kHz. It features a large backlit LCD. Audio Output is 150 mW. There is a mini earphone jack. The IC-R6 Sport comes with wrist strap, belt clip and SMA flexible antenna. Please note that the AC adapter and NiMH AA batteries are not included in this current version. This radio requires two AA batteries. 2.3 x 3.4 x 1.2” 7.1 oz. Black.

The full-coverage IC-R600i model is the same as the R6 Sport-16, but without the cellular gaps. It can be purchased by the Federal government or for export only.

Please visit the www.universal-radio.com for more details and full specifications!
The **AR-DV1B** wideband communications receiver covers 100 kHz to 1300 MHz (less cellular) in: USB, LSB, CW, Wide FM, Narrow FM, AM and AM Synchronous Detection, Noise Reduction, Notch, Digital Data Display, Clock, Calendar, Alarm and Timer. The SD/SDHC jack supports logging functions. There is also a micro USB port. This radio will support field firmware updates. High performance is achieved with digital data display, clock, calendar, alarm and timer. The AR-DV1B comes with a BNC telescopic antenna, 4 or 8 Gb SD card and well filtered, linear AA8600UL DC power supply (12 VDC 800 mA [+]).

**Specifications**

- **Frequency Range**: 100 kHz - 1300 MHz
- **Sensitivity**: 0.71 µV 0.5-18 MHz
- **Antenna Input**: BNC 50 ohm
- **Selectivity (-6dB)**: 0.2, 0.5, 1.8, 2.6, 3.8, 5.5, 6, 8, 15, 30, 100 and 200 kHz mode dependent.
- **Squelch Modes**: Level, Noise, Voice, Tone and DCS.
- **Stability**: ±2.5 PM after 5 mins.
- **Memories**: 2000 Memories (40x50).
- **Pass Frequencies**: 50 per bank or VFO
- **Audio Outputs**: Internal speaker, ext. speaker, 3.5mm head, and FM Discriminator
- **Dimensions**: 7.1 x 2 x 8.5 inches (178x50x215 mm)
- **Weight**: 3.5 lbs. (1.5 kg)

The **AR5001DB** wideband communications receiver covers 40 kHz to 3150 MHz (less cellular) in: USB, LSB, CW, Wide FM, Narrow FM, AM and AM Synchronous modes. APCO P-25 mode is available optionally. 2000 Alpha memories store frequency, mode, step, de-emphasis, AGC mode, CTCSS, DCS, auto notch, antenna port and attenuator settings. Bandwidths are: 200 Hz, 500 Hz, 3 kHz, 6 kHz, 15 kHz, 30 kHz, 100 kHz, 200 kHz and 300 kHz (-3 dB). There are two dual frequency modes. In the dual offset mode you can listen to two frequencies in the same band (± 5 MHz). In the regular dual frequency mode you can listen to a VHF/UHF frequency and an HF frequency, even if different modes. The special tri-frequency mode allows HF reception combined with the dual offset mode! This radio features five VFOs, DTMF tone decode, CW pitch control, Auto notch, noise reduction, noise blanker, keypad entry, a precision signal meter and SD card port. It also has a high resolution spectrum display function. The AR5001D comes with a well filtered DC supply, manual and SD card. 8.66 x 3.825 x 12 inches 3.5 lbs.

**Order Model Frequency Coverage List Price Your Price**

| #2682 | AR5001DB | 40 kHz to 3.15 GHz (less cellular) | $4799.00 | $4499.95 |
| #5001 | AR5001DU | 40 kHz to 3.15 GHz Restricted | $4799.00 | $4499.95 |

**Accessories**

- **P25-2300 APCO25 Decoder**: $249.95
- **IQ5001 IQ Unit & Software**: $754.95
- **GP5001 GPS Freq. Ref. Unit**: $448.98
- **AS5001 Antenna Switch**: $177.95

**Order #6452 CALL/WEB**

The **AR6000** is similar to the AR5001DU, but tunes 40 kHz to 6000 MHz continuously in: USB, LSB, CW, Wide FM, Narrow FM, AM and AM Synchronous modes. APCO P-25 mode is available optionally. 2000 Alpha memories store frequency, mode, step, de-emphasis, AGC mode, CTCSS, DCS, auto notch, antenna port and attenuator settings. Bandwidths are: 200 Hz, 500 Hz, 3 kHz, 6 kHz, 15 kHz, 30 kHz, 100 kHz, 200 kHz and 300 kHz (-3 dB). This model can be purchased for government or for export only.

**Order #6045 CALL/WEB**
The AOR AR8200Mark III 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. Bandwidths are: FM-W 150 kHz, FM-N/AM-W 12 kHz, AM/FM-S 9 kHz and AM-N/SSB 3 kHz (-6 dB). 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 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-band step and more. Includes: Four NIMH 1500 mAh AA cells, AC charger, belt-clip, auto cigarette lighter power cord, removable medium wave (AM) antenna and RA8600 Telescopic Whip antenna. This radio may also be operated from a 12 VDC external source. There is a 1/8 inch (3.5mm) mini headphone jack on the right side. 2.4 x 6 x 1.5 inches. List 1909.00 Order #0083.

### Optional Slot Cards

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
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<tr>
<td>#0000</td>
<td>CC8200A Serial PC Cable 1</td>
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<td>#1412</td>
<td>TE8200 Tone Eliminator</td>
<td>Disc. 99.98</td>
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<tr>
<td>#0422</td>
<td>VI8200 Voice Inversion</td>
<td>Disc. 18.98</td>
</tr>
</tbody>
</table>

Please note that the VI8200 is only available to export or government customers.

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**AOR AR8600Mark IIIB**

- 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

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
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<tr>
<td>Frequency Range</td>
<td>530 kHz - 3000 MHz</td>
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<tr>
<td>Modes</td>
<td>WFM, NFM, SFM, WAM, AM, NAM, USB, LSB, CW.</td>
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<tr>
<td>Power</td>
<td>13.8 VDC 0.5 Amps</td>
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<td>Antenna Impedence</td>
<td>50 ohm unbalanced</td>
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<tr>
<td>Selectivity (-6dB)</td>
<td>3/9/12/20/25/30/380 kHz</td>
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<tr>
<td>Sensitivity</td>
<td>2uV 1.9-30 MHz AM</td>
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<tr>
<td>Memories</td>
<td>1000 (20 banks)</td>
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<tr>
<td>Physical</td>
<td>6.1 x 2.25 x 7.7&quot; 4.5 lbs</td>
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The AOR AR8600Mark IIIB is a versatile receiver which can be used virtually anywhere, mobile, base or transportable... powered from an external 12 VDC power supply, or from an optional DC8600 D.C. lead for a 12 Volt vehicle. 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 aluminum. Step may be programmed by the operator in any receive mode using multiples of 50 Hz (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 9-pin RS232 serial port. Free software is available as a download from the AOR website. The AR8600 comes with an AC power supply, RA8600 telescopic antenna, medium wave plug-in antenna and manual.

List $1049.00 AR8600Mark IIIB Order #1860 $968.98

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**NOTE:** Full coverage, unblocked versions of AOR models are available for export or gov’t. customers.

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<tr>
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<td>CC8200B Serial PC Cable 2</td>
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<tr>
<td>#2207</td>
<td>CB8200 Record Cable 1</td>
<td>Disc. 29.98</td>
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<td>#0000</td>
<td>LC8200 Leather Case</td>
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<td>#3807</td>
<td>SC8200P Vinyl Case</td>
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<td>#0000</td>
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<td>#0000</td>
<td>USB8200 PC USB Cable 2</td>
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1For “B” s/n <554251 2For “B” s/n >554251

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**AR8200MkIIIB**

The AOR AR-DV10 wideband receiver covers 100 kHz to 1300 MHz (less cellular) in traditional analog modes (SSB, CW, AM, SAM, FM) as well as various digital modes including: APCO P-25 (Phase 1), D-CR, DMR (Tier 1 & 2), MotoTRBO, dPMR, NXDN, TETRA, Alinco EJ-47 GMSK, D-STAR and Yaesu FUSION. A new DALL function automatically determines the digital mode. Three VFOs are available (A/B/Z). Supported bandwidths include FM 6/15/30/100 kHz, AM 3.8/5.5/15 kHz, SSB 1.8/2.6 kHz and CW 200/500 Hz. You get 2000 memories (40 banks of 50 channels). Stability is ±5 ppm. It meets IPX5 environmental standards and has a microSD card-slot that supports audio recording. It is supplied with Li-ion battery, microSD card, charger, BNC antenna, belt clip and manual. 2.6 x 5.4 x 1.7” 15 oz. This radio is distributed and supported in the U.S. by Yaesu USA and features a three year limited mfg. warranty.

List $719.98

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### Accessories

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<th>Model</th>
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<td>#2227</td>
<td>SBR12u Battery 7V 2000mAh Li-ion</td>
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<td>#6476</td>
<td>SBD12 Battery Tray 210</td>
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<td>#7635</td>
<td>SBD11 Charge Cradle cc 44.98</td>
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<td>#3127</td>
<td>SDS12 DC Cigar Plug Cord 33.98</td>
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<td>#2616</td>
<td>MA500 Mob. Mag. Ant. (p. 35)</td>
<td>129.95</td>
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<tr>
<td>#3755</td>
<td>SA7000 Base Vert. Ant. (p. 34)</td>
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**AR8600MkIIIB**

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List $719.98

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<td>#1584</td>
<td>DC8600 DC Cord</td>
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<td>#0495</td>
<td>P25-8600 APCO25 Decoder</td>
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<td>#1316</td>
<td>BP8600 NiCad Battery Pack</td>
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**OPTONAL SLOT CARDS**

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<th>Model</th>
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<td>TE8200 Tone Eliminator</td>
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<tr>
<td>#0000</td>
<td>RUB8200 IC Sound Recorder</td>
<td>Disc. 99.98</td>
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<tr>
<td>#1829</td>
<td>EM8200 External Memory</td>
<td>Disc. 94.98</td>
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<tr>
<td>#0422</td>
<td>VI8200 Voice Inversion</td>
<td>Disc. 99.98</td>
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</tbody>
</table>

Please note that the VI8200 is only available to export or government customers.

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**Wideband Receivers**

- **AOR AR8200MkIIIB**
- **AOR AR-DV10**
- **Yaesu**