



IC-91A

Wide band receiver with dualwatch capability

The IC-91A has dualwatch receiver capability, allowing you to receive* two bands simultaneously (including same band). By pushing and holding the [Main/Dual] button, you can easily turn dualwatch on and off while a press of the button allows you to toggle the active VFO channels.

*See specifications for receive range coverage.

Large dot-matrix LCD

Using a large full dot-matrix LCD (37.8x20mm; 1^{1/2}x2^{5/32} in), the IC-91A clearly shows two-line frequency settings, alphanumeric channel name, bandscope, etc. You can choose large or small font size in the setting mode. In addition, automatic LCD and keypad backlighting provides bright illumination for night time operation.

Simple bandscope

Spectrum activity is displayed on the screen and audio is heard while sweeping the range. It is useful for finding new or interfering signals.



5 Watts (typical) output

Icom's original wideband PA circuit and supplied lithium-ion battery pack provides 5W (typ.) output. The supplied BP-217 provides up to 5/4.5 hours* of operating time and greatly reduces both the size and weight needed to obtain full output power.

*VHF/UHF single mode, Tx high: Rx: Stand-by duty ratio= 1: 1: 8

Keypad navigation

The 4 cursor direction buttons on the keypad gives you quick and intuitive access to many settings. The twin volume/channel knob provides convenient channel/volume setting.

External DC power jack

An external DC power jack allows for operation with an external DC power supply (10-16V DC). When used with CP-19R or OPC-254L, simultaneous operation during charging is possible.



Built in CTCSS/DTCS encoder and decoder

CTCSS and DTCS tones are used for accessing a repeater or for tone squelch operation. The pocket beep alerts you with a beep sound when the transceiver receives a preset tone.

Other features

- Squelch release function to monitor a weak signal
- Water-resistant construction, equivalent to IPX4
- Auto power save, power off and power on
- 26 memory banks with selected bank and bank link scanning
- 10 channel DTMF memory (16-digit)
- 10dB (approx) built-in attenuator
- Total of 1304 memory channels
- Automatic repeater function*
- Weather channel with weather alert* (*USA version only)

Advanced digital Technology in your hand now!

- D-STAR DV mode available (Digital Voice + data)
- One touch reply button
- Built-in voice recorder and auto reply function
- Optional PC remote capability
- Position information exchange
- DX communication over the D-STAR system

SPECIFICATIONS

GENERAL

• Frequency coverage and Mode : (Unit: MHz)

Version	Transmit	Receive (Working range)	Mode
IC-91AD/A	144-148, 420-450*1	VFO A: 0.495-999.990*3 VFO B: 118-174, 350-470	FM/WFM*4/AM*4
U.S.A.			FM/FM-NAM*4/DV*5
IC-91A	144-146, 430-440	VFO A: 144-146, 430-440	FM/WFM*4/AM*4
Korea			FM/FM-NAM*4/DV*5
IC-91A	144-148, 420-450*2	VFO A: 0.495-999.990	FM/WFM*4/AM*4
Australia		VFO B: 118-174, 350-470	FM/FM-NAM*4/DV*5
IC-91AD/A	137-174, 400-470*2	VFO A: 0.495-999.990	FM/WFM*4/AM*4
Export		VFO B: 118-174, 350-470	FM/FM-NAM*4/DV*5

*1 Guaranteed range, 144-148, 440-450MHz. *3 Cellular blocked.
*2 Guaranteed range, 144-148, 430-440MHz.
*4 Receive only. *5 Optional UT-121 required for IC-91A.

- Memory channels : 1304 channels (including 100 program scan edges and 4 call channels)
- Useable temp. range : -20°C to +60°C; -4°F to +140°F
- Frequency stability : ±2.5ppm (-20°C to +60°C)
- Digital Tx speed : 4.8kbps
- Voice coding speed : 2.4kbps
- Power supply : 7.4V DC (with BP-217)
- External DC power : 10-16V DC
- Current drain (at 7.4V DC):
Tx High (VHF/UHF) 2.1/2.2A typ.
Rx Power save(Duty=1:4)/Rated output/Stand-by
FM (Single) 65mA/220mA/100mA typ.
DV (Single) 85mA/300mA/140mA typ.
FM/FM (Dual) 75mA/260mA/130mA typ.
FM/DV (Dual) 95mA/340mA/170mA typ.

- Tuning steps (kHz) : 5*, 6.25*, 8.33*, 9*, 10, 12.5, 15, 20, 25, 30, 50, 100, 125, 200
* Not available on all bands or modes.
- Antenna impedance : 50Ω (SMA)
- Dimensions (W×H×D) : 58.4×103×34.2 mm; 2⁵/₁₆×4¹/₁₆×1¹/₃₂ in. (projections not included)
- Weight (approx.) : 300g; 10.6oz (with antenna and BP-217)

TRANSMITTER

- Output power : High 5W typ. Low 0.5W typ.
- Spurious emissions : Less than -60dB
- Max. freq. deviation : ±5.0/2.5kHz (FM Wide/narrow)
- Ext. MIC connector : 3-conductor 2.5(d) mm (1/8")/2kΩ

RECEIVER

- Intermediate frequency :
VFO A (1st/2nd) 61.65MHz/450kHz (Except WFM)
WFM (1st/2nd/3rd) 59.25MHz/13.35MHz/1.95MHz
VFO B (1st/2nd) 46.35MHz/450kHz
- Sensitivity (typical) :
FM (at 12dB SINAD, 3.5kHz DEV)
VHF (Ham band) 0.14μV UHF (Ham band) 0.16μV
1.625-29.995MHz 0.4μV 30.000-75.995MHz 0.25μV
76.000-117.995MHz 0.25μV 118.000-173.995MHz* 0.18μV
174.000-259.995MHz 0.32μV 260.000-349.995MHz 0.32μV
350.000-469.995MHz* 0.22μV 470.000-599.995MHz 0.32μV
600.000-999.995MHz 0.56μV (* Except ham bands)

- WFM (at 12dB SINAD, 52.5kHz DEV) 76.000-108.000MHz 1μV
175.000-221.995MHz 1.8μV 470.000-770.000MHz 2.5μV
AM (at 10dB S/N, 30% Mod.) 0.495- 4.995MHz 1.3μV
5.000- 29.995MHz 0.56μV 118.000-136.995MHz 0.5μV
222.000-246.995MHz 0.79μV 247.000-329.995MHz 1μV
DV (at BER 1%, 4.8kbps)
VHF (Ham band) 0.22μV UHF (Ham band) 0.22μV

- Selectivity :
AM/FM Wide More than 50dB
FM-Narrow, DV More than 45dB
WFM More than 300kHz/-3dB
Less than 700kHz/-20dB
- Spurious and image rejection :
VHF (Ham band) More than 60dB
UHF (Ham band) More than 50dB (IF more than 60dB)
- Spurious radiation : Less than -57dBm
- Audio output power : 200mW typ. at 10% distortion (7.4V DC) with an 8Ω load
- Ext. speaker connector : 2-conductor 3.5(d) mm (1/8")/8Ω

Supplied accessories	(*depending on version)
● Battery pack (BP-217)	● Wall charger* (BC-167A/D)
● Antenna (FA-S270C)	● Belt clip (MB-107) ● Hand strap

All stated specifications are subject to change without notice or obligation.

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

BATTERY PACK AND CASE



Battery pack/case	Type and capacity	Output power (VHF/UHF)	Operating time* (VHF/UHF)
BP-216	AA (LR6) batteries x 2	0.1W typ.	-
BP-217	Li-Ion 7.4V/1300mAh	5W typ.	5/4.5 hours

* VHF/UHF single mode, Tx: Rx: standby=1:1.8. Operating time is approximate (at 20°C).

SPEAKER-MICROPHONES



- HM-75A : Remote control speaker microphone.
- HM-131 : Compact and durable body with a revolving clip.
- HM-153 : Durable earphone-microphone with revolving clip.
- HM-128 : Lightweight earphone-microphone is also available.

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BC-139 DESKTOP CHARGER



Rapidly charges battery pack BP-217. Charging time (approx.): 2.5 hours.

POWER SUPPLY CABLES



- CP-19R : Cigarette lighter cable with DC-DC converter. 10-16V DC required.
- OPC-254L : For use with an external power supply. 10-14V DC required for high power output.
- CP-12L : Cigarette lighter cable is also available.

LC-163 CARRYING CASE



Helps protect the transceiver from scratches, etc.

REMOTE CONTROL SOFTWARE AND CONNECTION CABLE



- RS-91 : Provides remote control capability from a PC. OPC-1529R is included.
- OPC-1529R : RS-232C type PC/GPS cable.

UT-121 DIGITAL UNIT



Digital unit provides D-STAR digital capability.

- AD-92SMA ANTENNA CONNECTOR ADAPTER
Allows you to connect a BNC-type antenna.
- BC-167A/D WALL CHARGER
Charges the BP-217 in 5 hours (approx.). Same as supplied with some versions.
- HS-85 HEADSET
Allows you hands-free operation. Includes VOX, PTT, "one-touch PTT" with time out timer (TOT).
- OPC-474 CLONING CABLE
Used for handheld-to-handheld data cloning.
- SP-13 EARPHONE
Provides clear audio in noisy environments.

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