



HAM RADIO PRODUCTS

HF Transceivers



Mobile Transceivers



Handheld Transceivers



All Mode Transceivers

Icom Inc.

Icom's flagship HF transceiver

+40dBm 3rd order intercept point (in the HF bands)

Three hi-spec 1st IF filters (roofing filters)

Two completely independent receiver circuits

Four 32-bit DSP units and 24-bit AD/DA converters

Digital IF filter

200W output power and high-stability transmitter

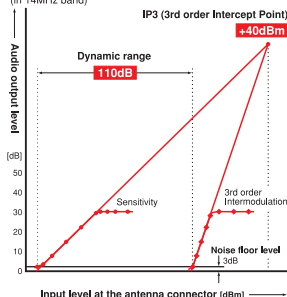


HF/50MHz TRANSCEIVER IC-7800

+40dBm IP3 (3rd order Intercept Point)

Icom's considerable analog RF circuit experience combined with cutting-edge digital technology results in an astonishing 110dB receiver dynamic range and a +40dBm IP3 in the HF bands – the first in ham radio! To achieve this superior receiver performance, Icom's engineering team completely re-engineered all of the analog circuitry to match the DSP system.

Dynamic range characteristics
(in 14MHz band)



BPF unit



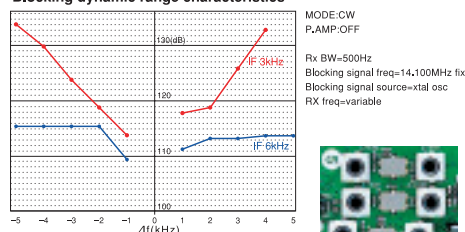
DIGI-SEL unit

Three hi-spec 1st IF filters (Roofing Filter)*1

In addition to selectable 6kHz and 15kHz roofing filters, the IC-7800 has a 3kHz roofing filter before the 1st IF amplifier. It provides 134dB*2 (approx.) of blocking dynamic range and allows you to pull out a weak signal while blocking strong adjacent signals. (The FM mode filter is fixed at 15kHz.)

*1 Icom calls the roofing filters "hi-spec 1st IF filters", because their performance is much better than regular IF filters. *2 At 14.1MHz receive, with 5kHz separation of interference signal.

Blocking dynamic range characteristics



Hi-spec 1st IF filters (Roofing filters)

Two completely independent receiver circuits

Dual receivers allow you to receive on two different bands simultaneously in different modes, without the receivers affecting each other.

Quad processing

The IC-7800 incorporates four independent, 32-bit DSP units and 24-bit AD/DA converters. By having four independent DSP units, the radio responds to operator changes in an instant, as each DSP unit is dedicated to a single function. While each receiver has its own dedicated DSP unit, there is a DSP unit for transmit as well as a DSP unit for the spectrum scope.

Digital IF filter

Icom's digital IF filters give you performance that is not possible with crystal or mechanical filters. They allow the operator to adjust filter shape (sharp or soft), filter bandwidth, and center frequency characteristics, without missing the action. Multiple filter memories store the most-recently used filter settings for each operating mode.



Filter preset screen

Ultra high stability OCXO unit

The IC-7800 uses the OCXO (Oven Control Crystal Oscillator) unit which is stable to within $\pm 0.05\text{ppm}$ from 0°C to 50°C . This specification means that even on the 50MHz band, frequency error is less than 2.5Hz!



200W output power, built-in

The power amplifier uses push-pull power MOS-FETs with a 48V DC supply. They provide a powerful 200W of output at 100 percent duty cycle. An effective cooling system maintains internal temperatures within a safe range and prevents thermal runaway.



PA Unit and heat sink

Real-time spectrum scope

With its own dedicated DSP unit, the IC-7800's spectrum scope provides excellent sensitivity and 80dB of dynamic range. This scope rivals many of today's commercial test instruments. The display spans $\pm 2.5\text{kHz}$ to $\pm 250\text{kHz}$ in 7 steps, covering up to 500kHz of spectrum!



Example of spectrum scope centered on the receiving frequency.

Example of fixed spectrum scope range.

7-inch wide color TFT LCD

An active matrix 7-inch (800x400 pixel) TFT color display was selected for the IC-7800. This large display shows main and sub-band frequencies, settings, and operating parameters, as well as the spectrum scope, S-meter, and RTTY/PSK31 decoded messages. The "virtual" S-meter needle swings smoothly and accurately, just like an analog meter.

Other outstanding features

[Antenna and receiver]

- 4 antenna connectors with automatic antenna selector
- Automatic antenna tuner
- Special preamp and mixer circuit optimized for 50MHz band
- 3-step manual notch filter
- Digital twin PBT eliminates interference from adjacent signals
- 16-step noise reduction

[CW mode]

- DSP-controlled CW keying waveform shaping
- Multi-function electronic keyer with adjustable keying speed, dot-dash ratio and paddle polarity
- APF selection (soft/sharp)

[Operation]

- High-quality digital voice memory
- Triple band stacking register
- Built-in RTTY and PSK31 modulator and demodulator
- Message memory for CW, RTTY and PSK31 operations
- Twin peak audio filter for RTTY operation
- CF memory card for storing customized personal settings
- 101 memory channels
- AGC control for fine tuning of the AGC time constant
- Microphone equalizer and adjustable transmit bandwidth
- FFT scope averaging function for PSK and RTTY decode
- Screen saver function



+40dBm 3rd order intercept point (in the HF bands)

2nd order intercept point higher than +110dBm

Excellent inband IMD specifications

Three hi-spec 1st IF filters (roofing filters)

7-inch wide color TFT LCD

32-bit DSP units and 24-bit AD/DA converters

200W output power and high-stability transmitter

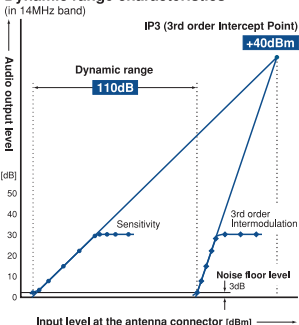


HF/50MHz TRANSCEIVER IC-7700

+40dBm IP3 (3rd order Intercept Point) and 110dB dynamic range

The IC-7700 employs mechanical relay BPF switching, a digitally tuned pre-selector, and three hi-spec 1st IF filters (roofing filters) in a clean and simple double conversion super-heterodyne design. By balancing the analog and DSP functions, the IC-7700 provides superior sensitivity simultaneously with a superb dynamic range of 110dB, and +40 dBm IP3 (even in USB mode with 2.4 kHz filter bandwidth).

Dynamic range characteristics

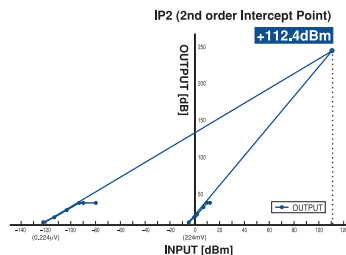


More than +110dBm IP2 (2nd order intercept point)

An IP2 point of more than +110 dBm* means 2nd order distortion from strong broadcast stations will be completely eliminated. The continuous pursuit of leading analog circuit engineering makes it possible to achieve this leading edge level of performance.

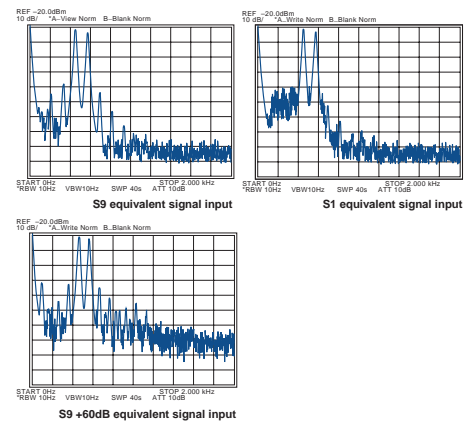
* The IP2 figure is a typical value.

** Measurements were made using custom equipment, due to the limits of normal signal generators (SG) and duplexers to +85 dBm.



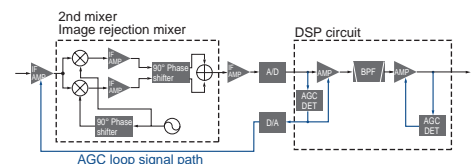
High specification in-band IMD

In-band IMD (Intermodulation Distortion) creates undesired spurious signals as a consequence of non-linear processing of multiple signals. All (2nd, 3rd or even higher) orders of IMD performance are superior in the IC-7700. The improvement will be especially evident in CW mode. You'll notice the difference as you copy weak signals without internal distortion or noise.



Two AGC Loops

The IC-7700 has two AGC loops. The AGC voltages are derived both before and after the digital IF filter in the DSP unit. The first AGC loop prevents the saturation of the 1st IF amplifier from strong signals outside the pass-band filter. The second AGC loop detects the AGC voltage at the digital IF filter output which contains only the desired signal, obtaining full performance from the digital IF filter.





Three hi-spec 1st IF filters (Roofing filter)

Now a proven formula, the IC-7700 employs custom three hi-spec 1st IF filters (roofing filters) to achieve approximately 134dB*1 of blocking dynamic range.

*1 At 14.1MHz receive, with 5kHz separation of interference signal.



Hi-spec 1st IF filters (Roofing filters)

7-inch wide color TFT LCD

An active matrix 7-inch (800x400 pixel) TFT color display shows main and sub-band frequencies, settings, and operating parameters, as well as the spectrum scope, S-meter, and RTTY/PSK31 decoded messages in vivid color. The "virtual" S-meter needle swings smoothly and accurately, like an analog meter.

Real-time spectrum scope

With its own dedicated DSP unit, the IC-7700's spectrum scope provides excellent sensitivity and 80dB of dynamic range. The display spans ± 2.5 kHz to ± 250 kHz in 7 steps, covering up to 500kHz of spectrum!

USB connectors on the front panel

Two USB connectors on the front panel allows you to easily connect a USB keyboard or USB flash drive to save transceiver settings, update firmware, or transfer settings to another IC-7700.



Two USB connectors

Other outstanding features

[Antenna and receiver] • 4 antenna connectors with automatic antenna selector • BNC type RX IN/OUT connectors • Automatic antenna tuner • Preamp for 50MHz band • 3-step manual notch filter • Digital twin PBT

eliminates interference from adjacent signals • 16-step noise reduction

[CW mode] • DSP-controlled CW keying waveform shaping • Multi-function electronic keyer with adjustable keying speed, dot-dash ratio and paddle polarity • APF selection (soft/sharp) • Double key jack system

[Operation] • Built-in power supply • High quality digital voice memory • Message memory for CW, RTTY and PSK31 • Built-in RTTY and PSK31 modulator and demodulator • Twin peak audio filter for RTTY operation • Triple band stacking register • 101 memory channels • AGC control for fine tuning of the AGC time constant • Microphone equalizer and adjustable transmit bandwidth • FFT scope averaging function for PSK and RTTY decode • Screen saver function





HF/50MHz TRANSCEIVER IC-7600

+30dBm IP3

Improved inband IMD

5.8 inch ultra-wide viewing angle TFT display

Dual DSP for transmitter/receiver and spectrum scope

Two separate 32-bit DSP units power the transmitter/receiver and spectrum scope. These processors give the IC-7600 high performance comparable to our top-of-the-line IC-7800 and IC-7700, thanks to the combination of dual DSP and our analog RF design expertise.

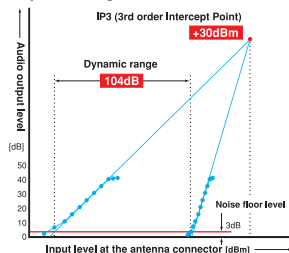


Dual DSP

104dB dynamic range and +30dBm IP3 (3rd order Intercept Point)

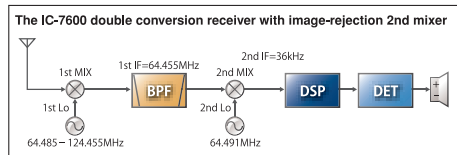
An astonishing 104dB receiver dynamic range and +30dBm IP3 in the HF bands without sacrificing receiver sensitivity is a standard specification be fitting the IC-7600. Even a weak signal adjacent to strong signals is clearly received by the IC-7600.

Dynamic range characteristics



Double conversion superheterodyne improves inband IMD

The IC-7600 employs a double conversion superheterodyne system which has an image rejection mixer for the 2nd mixer stage. When compared to a typical triple conversion system, the double conversion system is more difficult to implement but it dramatically reduces signal distortion and provides a high-linearity RF signal to the DSP processor.



Dual AGC loops controlled by DSP

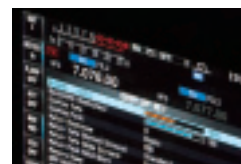
The IC-7600 has dual AGC loops, one analog and one digital, both under DSP control. This architecture prevents strong adjacent signals from "pumping" the AGC and allows maximum dynamic range in the DSP.

Three built-in 1st IF (roofing) filters, including 3kHz

The IC-7600 has three built-in 1st IF (roofing) filters ahead of the 1st IF amplifier stage. The 3kHz filter is especially effective in CW and SSB modes, eliminating overloading caused by strong signals just outside the passband.

5.8 inch ultra-wide viewing angle TFT display

The IC-7600's ultra-wide viewing angle display has excellent color rendering and high contrast ratio with fast response time. These features allow the spectrum scope and simulated analog meters to move smoothly and naturally. White LED backlighting offers fast start-up, stable brightness and long life.



Ultra-wide viewing angle display

Spectrum scope

The dedicated spectrum scope DSP with built-in digital filtering greatly improves dynamic range, response time, and frequency accuracy of the spectrum scope. The scope automatically selects the optimum resolution based on the sweep bandwidth. In addition, the spectrum scope range can be set independently from the receiving frequency. You can monitor band conditions between the selected sweep edges (Max. 500kHz) in the fixed mode, as well as sweep a selected band width centered on the receiving frequency in center mode.

USB connectors on the front and rear panel

The IC-7600 has a type A USB receptacle on the front panel and a type B receptacle on the rear panel. Connect a USB keyboard or flash drive on the front panel and a PC on the rear panel. With appropriate third-party software, use the USB port for PC remote control operation.

RTTY/PSK31 operation with a USB keyboard

The digital twin peak filter greatly reduces interference and a tuning indicator helps you zero beat the signals. Eight RTTY and PSK transmit memories store up to 62 characters per channel.



Other features

[Antenna and receiver] • 2 TX/RX antenna connectors and RX antenna connector • Automatic antenna tuner • Auto notch filter and manual notch filter • Digital twin PBT • 16-step noise reduction • Dual watch

[Transmitter] • Tx monitor function • Tone encoder • VOX operation • All mode power control

[CW mode] • CW Waveform controlled by the DSP • Multi-function electronic keyer with adjustable keying speed, dot-dash ratio and paddle polarity • APF selection (soft/sharp) • Double key jack system

[Operation] • Dual AGC loops controlled by DSP • 2 clocks show local and UTC time • High quality digital voice memory • Triple band stacking register • Message memory for CW, RTTY and PSK31 operations • 101 memory channels • Microphone equalizer and adjustable transmit bandwidth • FFT scope averaging function for PSK and RTTY decode • Programmable band edge beep • Screen saver function



HF/50MHz TRANSCEIVER

IC-7200

IF DSP

Rugged design for outdoor use

100W output power

IF DSP

The latest IF DSP technology is employed in the IC-7200. While the IC-7200 is an entry-class transceiver, advanced digital features such as flexible filter width and shape setting, digital noise reduction and auto notch filter are comparable to higher class models.

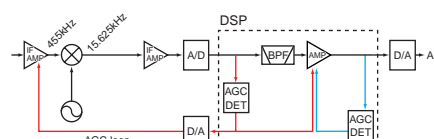
Rugged design for outdoor use

The rugged design of the IC-7200 means your enjoyment of this rig is not limited only to your shack. Waterproof protection technologies used in Icom's marine radios are applied to the buttons and knobs on the front panel to provide a basic measure of protection against water intrusion*.

* IC-7200 is NOT waterproof.

AGC loop management

Distortion and blocking from strong nearby signals are prevented by placing DSP functions inside the AGC loop. The AGC time constants are selectable from fast, slow and off for each operating mode.



High stability transmitter

The DDS (Direct digital synthesizer) creates a clear, clean transmit signal and improves the carrier-to-noise ratio. A dual-fan cooling system provides stable high quality output even during high duty cycle operation.

USB connector for PC control

The IC-7200 can be controlled via the USB by a PC using the data format of the Icom CI-V interface. In addition, modulator and received audio can also transferred over the USB interface. By using appropriate external software, you can record incoming audio and/or transmit preprogrammed messages from your PC.

Digital Twin PBT

Only Icom brings you Twin Passband tuning! Tailor your IF passband with the Twin PBT by electronically shifting the upper and lower edges of the IF filter. By using the concentric front-panel knobs, you can either narrow the IF passband, or shift the entire passband to eliminate interfering signals.

Manual notch filter

The manual notch filter delivers more than 70dB of attenuation. Strong interfering tones will be eliminated without adversely affecting the AGC loop performance. On the bottom right of the front panel, a dedicated control knob adjusts the notch filter frequency.

Other features

• RIT • VOX • ± 0.5 ppm frequency stability • LCD backlight (Hi/Lo/Off) • CI-V interface • 201 memory channels • Built-in 20dB attenuator • Preamp • Dial lock • Auto tuning step function • 1Hz step tuning • Band stacking register • Built-in voice synthesizer • Quick split • Front facing speaker





Front mounted loud speaker

The IC-718 has the speaker mounted on the front panel. With the speaker facing the operator, audio will be heard clearly and directly while operating.

Optional DSP capability, UT-106

The optional DSP unit* gives you noise reduction and auto notch filter functions for extra receiver performance.



Optional UT-106

* Already built-in to USA version.

General coverage receiver

The IC-718 has 0.03–29.999999MHz* general coverage receive capability.

* Guaranteed range: 0.5–29.999999 MHz

Other features

- Built-in electronic keyer
- Built-in microphone compressor
- Combined squelch and RF gain control
- Preamplifier and attenuator
- 101 memory channels
- CW full break-in
- IF shift interference rejection
- 1Hz tuning
- VOX function for hands-free operation
- Optional automatic antenna tuner
- Digital S/R/F meter

HF TRANSCEIVER IC-718

Simple, straightforward operation with keypad

General coverage receive with superior performance

Optional DSP capability

Simple operation

The IC-718 is equipped with a minimum number of buttons and controls for simple feature selection. The 10-key pad on the front panel allows direct entry of an operating frequency or a memory channel number. The auto tuning step function is activated when turning the dial quickly and helps speed up tuning. The band stacking register is convenient when changing operating bands.



2-point MNF (Manual notch filter)

Pull out the weak signals in crowded band conditions with Icom's new two-point MNF (manual notch filter). Apply 70 dB of rejection to two signals at once! Notch width is adjustable – wide, middle and narrow – and an auto-tuning notch filter is available, too.

2.5-inch color TFT display

The 2.5-inch color TFT display presents numbers and indicators in bright, concentrated colors for easy recognition. You can choose from 3 background colors and 2 font styles to suit your preference. The video output jack allows you to view a magnified display on a TV or external monitor*.

* 3.5(d) mm monaural cable is required.

Other outstanding features

- 35W output on 430/440MHz band
- ±0.5 ppm high stability crystal unit
- 8 direct access buttons for user-friendly operation
- Digital voice recorder for transmit and receive
- Built-in RTTY demodulator
- Remote control microphone, HM-151
- Fixed-mode and center-mode band scope
- Multi-function meter and SWR graphic displays
- Front panel separation with optional separation cable
- Built-in voice synthesizer

HF/VHF/UHF TRANSCEIVER IC-7000

IF DSP — First in its class

2-point Manual Notch Filter more than 70dB attenuation

2.5-inch color TFT display

IF DSP — First in its class

Digital IF filter, manual notch filter, digital twin PBT, AGC loop management, digital noise reduction and more. The latest digital features are incorporated in this compact radio by two DSP chips that deliver superior processing performance. Of course, those digital features work on all ham bands — HF, 50, 144MHz to the 430/440MHz band.



All Mode Transceivers



VHF/UHF ALL MODE TRANSCEIVER

IC-910H

100W output on 2m band &
75W output on 70cm band

Operates on two bands
simultaneously

Excellent support for satellite mode
and Packet operation

100W of stable output power

A powerful 100W* of output is provided by the power amplifier circuit. The aluminum die-cast chassis ensures cool operation during extended use.

* 75W on 430/440MHz and 10W on 1200MHz band

Simultaneously works two bands

The IC-910H can receive two bands simultaneously in different modes. The sub-band is

equipped with equivalent receive features as the main band such as AF volume and RF-gain/squelch control knobs.

Satellite communication

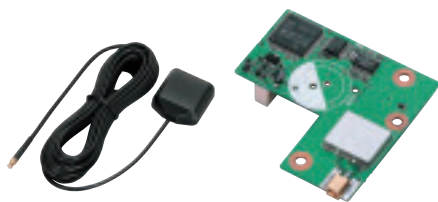
The V/U and L/U (optional UX-910 required) mode satellite operation is ready for use with the IC-910H. In the satellite mode, the down/up link frequencies are displayed on the MAIN and SUB band respectively. Reverse/normal tracking and doppler shift compensation are standard, and 10 satellite memory channels store down/up link frequencies and operating mode.

Other features

- Up to 2 optional DSP units can be installed
- Continuously adjustable Tx output power
- Optional UX-910 for 1200MHz band operation
- Sweep function • IF shift function • CTCSS tone encoder/decoder • Optional CW narrow filter
- Memory pad function • 9600bps Packet capability • Receives narrow band FM

* No longer available in the USA.





UT-123 D-STAR unit and GPS receiver

DIGITAL
With optional UT-123

GPS
With UT-123



VHF/UHF DUAL BAND TRANSCEIVER

IC-2820H

**D-STAR DV mode plus GPS receiver
with optional UT-123**

**Wideband receiver*¹
with diversity receive capability**

**50W output power
on 144 and 430(440)MHz band**

D-STAR DV mode + GPS receiver with optional UT-123

The optional UT-123 module provides D-STAR DV mode operation plus GPS receiver capability. Simultaneously send your current position, own callsign and up to a 20-character message along with your digital voice transmission. When location is provided by a calling station, the transceiver displays the distance and direction to the station.

Wideband receiver with simultaneous receive capability

The transceiver receives 118–549.995 and 810–999.990MHz*¹ with dualwatch receiver capability that allows you to receive two bands simultaneously (including within a single band).

*¹ Receiver range differs depending on version.

User-friendly operation

The large 93×28 mm (3²¹/₃₂×1³/₃₂ in) full dot-matrix display presents an easy-to-read graphical interface. In addition, tuning knobs and buttons for each band are arranged side-by-side, providing intuitive operation.

Other features

- Separate controller from main unit
- 50W output on both VHF/UHF bands
- Total of 522 memory channels
- 16 DTMF memory channels
- 50 CTCSS and 104×2 DTCS encoder/decoder*²
- Diversity receive capability
- ±2.5ppm high frequency stability with TCXO unit
- Green to amber variable display background
- 9600 bps packet terminal, mini-DIN (6-pin) connector
- Max 45 channel/ sec. high speed scan capability in programmed scanning mode
- Band scope function

*² FM mode only.

DIGITAL

Rugged
MIL-STD-810



1200MHz DIGITAL TRANSCEIVER

ID-1

**128kbps data and 4.8kbps
digital voice communication**

PC remote control software

Wireless Internet access

4.8kbps DV (digital voice) mode and 128kbps* DD (data) mode

The ID-1 has three modes — analog FM, digital voice and data mode operation. The built-in AMBE® vocoder chip provides digitally modulated, clear audio as well as 128kbps wireless data transmission. In DD mode operation, you can use various Internet applications wirelessly by connecting to a PC with Ethernet and USB cables.

* Maximum speed.

PC remote controller supplied

The PC controller software* is supplied with the ID-1. When the ID-1 is connected to a PC, most functions of the ID-1 can be controlled from the PC screen. The controller software is convenient for editing memory channels, writing short data messages, and checking received call records, etc.

* Windows 7 compatible.

Wireless Internet access

D-STAR's DD mode supports the Ethernet protocol for Internet connectivity. When the ID-1 is connected to a PC, you can access Web sites or check e-mail in DD mode from a remote location*.

* Within a D-STAR repeater service area.

Other features

- Digital callsign squelch (DSQL) and digital code squelch (CSQL)
- Short data message in DV mode
- Automatic Frequency Control (AFC) function for FM and DV mode
- S-meter squelch
- Programmed, memory and select mode scan
- Break-in communication
- Enhanced Monitor Request (EMR) function
- Auto repeater function for FM mode*
- Stand-by beep

* Depending on version.



DIGITAL

GPS

With HM-189GPS

Photo includes optional HM-189GPS.

VHF/UHF DIGITAL TRANSCEIVER

IC-80AD

D-STAR DV mode capability

DR (D-STAR repeater) mode
for easy setup

CS-80/880 free download software

DIGITAL



VHF/UHF DIGITAL TRANSCEIVER

ID-880H

D-STAR repeater list and DR mode operation

The D-STAR repeater list stores up to 300 channels of repeater call signs, frequencies, gateway call signs, duplex direction and offset frequency with channel names of up to 8 characters. The D-STAR repeater (DR) mode operation makes it easier to use a D-STAR repeater.

CS-80/880 free download software

Used with the CS-80/880 cloning software, various settings can be made from a PC. Share your memory channels and radio settings between ID-880Hs, IC-80ADs or both. Available for free downloadable from: <http://www.icom.co.jp/world/support/index.html>

* Either OPC-1529R, OPC-478 or OPC-478UC optional cable is required.

GPS position reporting functions

Your position data is shown on the display and can be sent to other station*. In addition, the GPS A mode assists in D-PRS mode operation to send your position information to an APRS server.

Other features

- Total of 1052 memory channels • 16 DTMF memories • 50 CTCSS and 104x2 DTCS encoder/decoder*
- Wideband receiver**
- External DC power jack for IC-80AD (10-16V DC) • IC-80AD is compact body with water resistance (Equivalent to IPX4) • ID-880H has detachable controller • Backlit LCD
- Auto power off and on • Power save

*1 Optional GPS speaker-microphone, HM-189GPS required. 3rd party GPS receiver is required for ID-880H.

*2 Tx:Rx:Stand-by=1:1:8 (min.) Power save on. *3 FM mode

*4 Receiver range differs depending on version.



DIGITAL

IPX7

GPS

With HM-175GPS

D-STAR DV mode capability

GPS position reporting function
with optional GPS speaker-mic*1

Rugged submersible protection
equivalent to IPX7 rating

Other features

- Wideband receiver** with dualwatch capability • 5W (typ.) output power • Total of 1304 memory channels • Up to 6.5/5 hours*3 of operating time with BP-256 battery pack • Large dot-matrix LCD • 10 DTMF memories • 50 CTCSS and 104x2 DTCS encoder/decoder*
- External DC power jack (10-16V DC acceptable) • Simple band scope • Optional PC remote control capability • Built-in DV voice memory • Backlit LCD

*1 Optional GPS speaker-microphone, HM-175GPS required. *2 Receiver range differs depending on version. *3 VHF/UHF single mode Tx:Rx:Stand-by=1:1:8

*4 FM mode

VHF/UHF DUAL BAND TRANSCEIVER

IC-92AD

DIGITAL

With optional UT-121**

Rugged
MIL-STD 810

D-STAR DV mode capability
with optional UT-121*1

Wideband receiver**
with dualwatch capability

5W (typ.) output power on
144 and 430(440)MHz band

Other features

- Total of 1304 memory channels • Up to 4.5-5 hours*3 of operating time with BP-217 battery pack • Large dot-matrix LCD • 10 DTMF memories • 50 CTCSS and 104x2 DTCS encoder/decoder*
- External DC power jack (10-16V DC acceptable) • Simple band scope • Optional PC remote control capability • Built-in DV voice memory • Compact body with water resistance (Equivalent to IPX4) • Backlit LCD

*1 Already installed in the IC-91AD. Only available in the IC-91A configuration in the USA

*2 Receiver range differs depending on version.

*3 VHF/UHF single mode Tx:Rx:Stand-by=1:1:8

*4 FM mode only



IC-91AD

VHF/UHF DUAL BAND TRANSCEIVERS

IC-91AD/A



VHF/UHF FM TRANSCEIVER

IC-208H

**Powerful 55W/50W output
(VHF/UHF)**

**Wideband receiver
(Depending on version)**

**Compact, detachable front panel
with separation cable**

Wideband receiver

The IC-208H receiver covers 118–173, 230–549 and 810–999 MHz* as standard. Listen to amateur bands, as well as aviation, marine, weather and other utility communications in a compact mobile package.

* Receiver range differs depending on version.

Detachable front panel

The 3.5m (11.5ft) separation cable, OPC-600/R, is supplied with the radio allowing the compact remote control head* to be installed almost anywhere.

* 111(W)×40(H)×26.3(D) mm; 4 $\frac{3}{8}$ ×1 $\frac{1}{16}$ ×1 $\frac{1}{32}$ in.

Other features

- 55W/50W (VHF/UHF) output power
- 512 memory channels with 10 memory banks
- 16 DTMF memory channels
- 50 CTCSS, 104×2 DTCS encoder/decoder
- Pocket beep and tone scan
- Squelch attenuator
- Weather channel with weather alert*
- 9600bps packet data terminal
- Easy to manage bank link scan system
- Microphone sensitivity setting
- Amber, green and yellow, triple color LCD

* U.S.A. version only.



144MHz FM TRANSCEIVER

IC-V8000

**Unbeatable 75W output power
with efficient cooling fan**

**Total 200 memory channels
with 10 memory banks**

**Remote control microphone,
HM-133V**

75W of output power

The combination of Icom's one piece, die-cast aluminum chassis and MOS-FET power amplifier delivers a powerful 75W output power. Your communications will get through.

Dynamic Memory Scan (DMS)

With 200 alphanumeric memory channels, Icom's exclusive DMS system gives you flexibility over your scanning lists never offered before in a 2m mobile, fully customizable into 10 memory banks.

Other features

- Front mounted speaker
- 10 DTMF memory channels
- DTMF pager/code squelch function with optional UT-108
- 50 CTCSS and 104×2 DTCS encoder/decoder
- Pocket beep and tone scan
- Squelch attenuator
- Weather channel with weather alert*
- Narrow band FM mode*
- Cooling fan control
- Squelch delay
- Amber and green, dual color LCD

* U.S.A. version only.



DIGITAL
With optional UT-118



144MHz FM TRANSCEIVER

IC-2200H

Stable 65W output power

Optional digital unit, UT-118

**User-friendly interface and
durable construction**

65W* of output power

A MOS-FET power amplifier provides 65W* of stable output power. A one piece, aluminum chassis helps to keep the transceiver cool and provides durable long-lasting construction.

* Depending on version.

Optional digital unit, UT-118

The optional UT-118 provides D-STAR DV mode operation compatible with other D-STAR radios.

And more...

- 207 memory channels with 10 memory banks
- 16 DTMF memory channels
- DTMF pager/code squelch function with optional UT-108
- 50 CTCSS and 104×2 DTCS encoder/decoder
- Pocket beep and tone scan
- Squelch attenuator
- Weather channel with weather alert function*
- FM narrow mode
- Data jack for connecting with PC or GPS
- ALC (Automatic Level Control)
- Squelch delay
- Easy to manage bank link scan system
- Amber and green, dual color LCD

* U.S.A. version only.



Rugged
MIL-STD-810

**5W powerful output for both
144 and 430(440) MHz bands**

**700mW loud audio
with a BTL amplifier**

**IP54 and MIL-STD-810
rugged construction**

Other Features

- A total of 302 memory channels with 26 memory banks • Up to 13.5 hours*¹ of operating time with BP-265 battery pack • 16 DTMF autodial memories • CTCSS and DTCS encoder/ decoder • Pocket beep and tone scan • Automatic repeater function*² • Weather channel receive and WX alert function*² • External DC power jack • Internal VOX function • Backlit LCD • Auto power off • Auto power save • FM narrow mode

*¹ 5:5:90 duty cycle with auto power save ON.

*² USA version only

VHF/UHF FM TRANSCEIVER

IC-T70A



Rugged
MIL-STD-810

**750mW (typ.) loud audio
with a BTL amplifier**

5.5W output power

**IP54 and MIL-STD-810
rugged construction**

Other features

- A total of 207 memory channels • Up to 19 hours*¹ of operating time with BP-265 battery pack, Up to 13 hours*¹ of operating time with BP-264 • 16 DTMF autodial memories • CTCSS and DTCS encoder/ decoder • Pocket beep and tone scan • Automatic repeater function*² • Program, memory, priority and tone scans • Weather channel receive and WX alert function*² • Internal VOX function • Backlit LCD • Auto power off • Auto power save • FM narrow mode

*¹ 5:5:90 duty cycle with auto power save ON.

*² USA version only

144MHz FM TRANSCEIVER

IC-V80



DIGITAL
With optional UT-118

Rugged
MIL-STD-810

**7W output power on 144MHz
5W on 430(440) MHz**

**Optional UT-118 provides D-STAR
format digital voice and data**

**200 alphanumeric memories
with 10 memory banks**

Other features

- Up to 7 hours*¹ of operating time with optional BP-210N battery pack • 16 DTMF memories • DTMF pager/code squelch function with optional UT-108 • 50 CTCSS and 104x2 DTCS encoder/decoder • Pocket beep and tone scan • Automatic repeater function*² • Weather channel receive with weather alert*³ • Reversible control knob and up/down buttons assignment • Backlit LCD • Mic simple mode with optional HM-75A

*¹ IC-U82 Typical operation with Tx:Rx:Stand-by=1:1:8 Up to 6 hours for IC-V82. *² USA/CSA versions only

*³ IC-V82 USA/CSA versions only

IC-V82

VHF AND UHF TRANSCEIVERS

IC-V82 • IC-U82

144MHz

430(440)MHz



Rugged
MIL-STD-810

**5.5W (typ.) of output power with
supplied battery pack**

Military-grade tough construction

**Reversible up/down buttons
and rotary selector**

Other features

- Up to 11 hours*¹ of operating time with optional BP-210N battery pack • 5 DTMF memories • DTMF pager/code squelch function with optional UT-108 • 50 CTCSS and 104x2 DTCS encoder/decoder • Pocket beep and tone scan • Reversible control knob and up/down buttons assignment • Mic simple mode with optional HM-75A • Backlit LCD • Fast scanning speed 40 channel per second (Program scan mode).










*¹ Typical operation with Tx:Rx:Stand-by=1:1:8





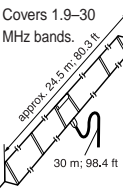


*² No longer available in the USA.










144MHz FM TRANSCEIVER

IC-V8

OPTIONS FOR HF/50MHz/VHF/UHF ALL MODE TRANSCEIVERS







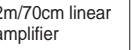
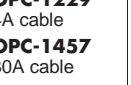
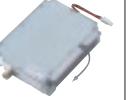
	HAND MICROPHONES		DESKTOP MICROPHONES		EXTERNAL SPEAKERS				DC POWER SUPPLIES
MODEL NAME	HM-36	HM-151	SM-50	SM-20	SP-10	SP-20	SP-21	SP-23	PS-125 13.8V/25A 6-pin type
									
IC-7800	✓		✓	✓		✓			
IC-7700	✓		✓	✓		✓			
IC-7600	✓		✓	✓					
IC-7200	✓		✓	✓	✓	✓	✓	✓	
IC-718	✓		✓	✓		✓	✓	✓	✓
IC-7000		✓	(Use with OPC-589)	(Use with OPC-589)	✓				
IC-910H	✓		✓	✓		✓	✓	✓	✓





	DC POWER SUPPLIES	ANTENNA ELEMENT	ANTENNA TUNERS		FOLDED DIPOLE ANTENNA	FILTERS		HIGH STABILITY CRYSTAL UNITS	
MODEL NAME	PS-126 13.8V/25A 4-pin type	AH-2b Covers 7–54MHz	AH-4 Matches 3.5–54 MHz bands	AT-180	AH-710 Covers 1.9–30 MHz bands approx. 24.5 m (80.2 ft) 30 m; 98.4 ft	FL-52A 500Hz/–6dB FL-53A 250Hz/–6dB FL-222 1.8kHz/–6dB FL-257 3.3kHz/–6dB	FL-132 500Hz/–6dB (for Main band) FL-133 500Hz/–6dB (for Sub band)	CR-293 Frequency stability: ±0.5ppm	CR-338 Frequency stability: ±0.5ppm
									
IC-7800									
IC-7700									
IC-7600	✓	✓	✓						
IC-7200	✓	✓	✓	✓	✓				
IC-718		✓	✓	✓	✓	(Accepts only one filter)			✓
IC-7000	✓	✓	✓	✓					
IC-910H							✓	✓	

	VOICE SYNTHESIZER	DSP UNIT	CI-V CONVERTER	LINEAR AMPLIFIER	CARRYING HANDLES	HANDLES	MOBILE MOUNTING BRACKETS		
MODEL NAME	UT-102	UT-106	CT-17	IC-PW1	MB-23 MB-106 MB-117 MB-121	MB-116	IC-MB5	MB-62	MB-118
					 Photo shows MB-117.				
IC-7800			✓	✓					
IC-7700			✓	✓					
IC-7600			✓	✓	(Use MB-121)				
IC-7200			✓	(Use with OPC-599)	(Use MB-117)	✓			✓
IC-718	✓	(Installed depending on version)	✓	(Use with OPC-599)	(Use MB-23)		✓		
IC-7000			✓	(Use with OPC-599)	(Use MB-106)			✓	
IC-910H	✓	(Up to two units)	✓		(Use MB-23)		✓		

☒ : Applicable
 ☐ : Not applicable

OPTIONS FOR HF/50MHz/VHF/UHF ALL MODE TRANSCEIVERS

	MOUNTING BASE	CONTROLLER BRACKET	SEPARATION CABLE	MIC ADAPTER CABLE	ACC CABLE	ADAPTER CABLE	ACC 13-PIN CABLE	DC POWER CABLES	1200MHz BAND UNIT
MODEL NAME	MB-120 	MB-105 	OPC-1443 3.5m;11.5ft OPC-1444 5.0m;16.4ft 	OPC-589 8-pin connector microphone to 8-pin modular 	OPC-598 13-pin ACC long cable for AT-180 7.0m;22ft 	OPC-599 13-pin ACC socket to 7-, 8- pin ACC sockets 	OPC-742 Connection cable between transceiver and AT-180 with 2m/70cm linear amplifier 	OPC-025A 20A cable OPC-025D 30A cable OPC-1229 4A cable OPC-1457 30A cable 	UX-910 
IC-7800									
IC-7700									
IC-7600								(Use OPC-1457)	
IC-7200					✓	✓		(Use OPC-1457)	
IC-718						✓		(Use OPC-025A)	
IC-7000	(Use with MB-105) ✓	✓	✓	✓	✓	✓	✓	(Use OPC-1457)	
IC-910H								(Use OPC-025D)	✓

	WATERPROOF PREAMPLIFIERS		DOWN CONVERTER	ANTENNA
MODEL NAME	AG-25 144MHz 	AG-35 430MHz 	AG-2400 Converts 2400– 2402MHz to 144 –146MHz 	AH-8000 Rx 100– 3300MHz. Tx 144, 430, 1200, 2400MHz. (200W) 
IC-7800				
IC-7700				
IC-7600				
IC-7200				
IC-718				
IC-7000				
IC-910H	✓	✓	✓	✓

☒ : Applicable ☐ : Not applicable



GENERAL PURPOSE POWER SUPPLY














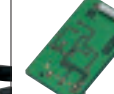
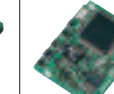
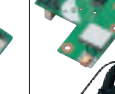

PS-300

- Max. 30A output (25A continuous)
- 9–15V variable output voltage
- Transformer type
- Voltage and current meters
- 209(W)×120(H)×280(D) mm;
8⁷/₃₂×4²³/₃₂×11¹/₃₂ in dimensions
(Not available in some countries)

OPTIONS FOR MOBILE TRANSCEIVERS

	HAND MICROPHONES				CONTROLLER BRACKET	MOUNTING BASE	DC POWER CABLES	CONTROLLER	
MODEL NAME	HM-154 	HM-154T w/DTMF keypad 	HM-133/V w/DTMF keypad 	HM-103 	MB-58 	MB-120 	OPC-347 7.0m: 23ft OPC-1132A 3.0m: 9.8ft 	RC-24 	
ID-1	✓							✓	
IC-2820H	✓		(Use HM-133)				✓		
ID-880H	✓		(Use HM-133)	✓		✓	✓		
IC-208H	✓	✓	(Use HM-133)		✓	(Use with MB-58)	✓		
IC-V8000	✓	✓	(Use HM-133V)				✓		
IC-2200H	✓	✓	(Use HM-133V)				✓		

	SEPARATION CABLES	SPEAKER CABLE	MICROPHONE CABLES	MIC ADAPTER CABLE	DATA CABLE	CLONING CABLES			
MODEL NAME	OPC-600/R 3.5m: 11.5ft OPC-601/R 7.0m: 23ft 	OPC-1663 3.4m: 11.2ft OPC-1712 10cm: 3.9in 	OPC-441 5.0m: 16.4ft 	OPC-440 5.0m: 16.4ft OPC-647 2.5m: 8.2ft 	OPC-589 8-pin connector microphone to 8-pin modular 	OPC-1529R For data communication and PC cloning 	OPC-474 Between transceivers 	OPC-478 Transceiver to PC RS-232C cable 	OPC-478UC Transceiver to PC USB cable 
ID-1				✓					
IC-2820H		✓	✓	✓	✓	✓	✓	✓	✓
ID-880H			✓	✓	✓	✓	✓	✓	✓
IC-208H	✓		✓	✓	✓		✓	✓	
IC-V8000			✓	✓	✓		✓	✓	
IC-2200H			✓	✓	✓		✓	✓	

	CLONING SOFTWARE	EXTERNAL SPEAKERS	DTMF DECODER UNIT	DIGITAL UNITS		
MODEL NAME	CS-208 CS-2200H CS-2820 ^{*2} CS-80/880 ^{*1*2} CS-V8000 Optional OPC-478, OPC-478UC or OPC-1529R cable required for programming. 	SP-10 	SP-22 	UT-108 	UT-118 	UT-123 With GPS receiver 
ID-1		✓	✓			
IC-2820H	(Use CS-2820) ✓	✓				✓
ID-880H	(Use CS-80/880) ✓	✓				
IC-208H	(Use CS-208) ✓	✓				
IC-V8000	(Use CS-V8000) ✓	✓		✓		
IC-2200H	(Use CS-2200H) ✓	✓		✓	✓	

*1 CS-80/880 is available for free download from:
<http://www.icom.co.jp/world/support/index.html>

*2 Windows® 7 compatible.



: Applicable



: Not applicable

D-STAR repeater



ID-RP2C
Repeater controller



ID-RP2D
1.2GHz DD mode module



ID-RP2V
1.2GHz DV mode module



ID-RP2000V
144MHz DV mode module





















ID-RP4000V
430/440MHz DV mode module



RS-RP2L
Internet gateway software

OPTIONS FOR HANDHELD TRANSCEIVERS

MODEL NAME	BATTERY CASES				BATTERY PACKS				
	BP-208N AA(LR6)×6 cells 	BP-216 AA(LR6)×2 cells 	BP-257 AA(LR6)×2 cells 	BP-263 AA(LR6)×6 cells 	BP-209N (Ni-Cd) 7.2V/ 1100mAh 	BP-210N (Ni-MH) 7.2V/ 1650mAh 	BP-217 (Li-Ion) 7.4V/1500mAh (min.) 1580mAh (typ.) 	BP-222N (Ni-Cd) 7.2V/600mAh 	BP-256 (Li-Ion) 7.4V/1620mAh (min.) 1700mAh (typ.) 
IC-92AD			✓						✓
IC-80AD		✓					✓		
IC-91AD/A		✓					✓		
IC-T70A				✓					
IC-V80				✓					
IC-V82, IC-U82	✓				✓	✓		✓	
IC-V8	✓				✓	✓		✓	

MODEL NAME	BATTERY PACKS		DESKTOP CHARGERS						
	BP-264 (Ni-MH) 7.2V/1400mAh 	BP-265 (Li-Ion) 7.4V/1900mAh (min.) 2000mAh (typ.) 	BC-119N Rapid charger 	BC-121N Rapid multi-charger 	BC-139 Rapid charger Includes AC adapter 	BC-144N Rapid charger 	BC-146 Regular charger 	BC-177 Rapid charger Includes AC adapter 	BC-191 Rapid charger (For BP-264) 
IC-92AD								✓	
IC-80AD					✓				
IC-91AD/A					✓				
IC-T70A	✓	✓							(Use with BC-123) ✓
IC-V80	✓	✓							(Use with BC-123) ✓
IC-V82, IC-U82			(Use with AD-101+BC-145) ✓	(Use with AD-101+BC-157) ✓		(Use with BC-145) ✓	(Use with BC-147) ✓		
IC-V8			(Use with AD-101+BC-145) ✓	(Use with AD-101+BC-157) ✓		(Use with BC-145) ✓	(Use with BC-147) ✓		

MODEL NAME	DESKTOP CHARGERS		AC ADAPTERS				WALL CHARGER	CHARGER ADAPTER	CIGARETTE CABLE
	BC-192 Regular charger (For BP-264) 	BC-193 Rapid charger (For BP-265) 	BC-123 *1 12V/1A 	BC-145 *2 16V/1A 	BC-147 *3 12V/200mA 	BC-157 *4 12V/6.6A 	BC-167 *5 12V/500mA 	AD-101 	CP-12L with noise filter 
IC-92AD							✓		✓
IC-80AD							✓		✓
IC-91AD/A							✓		✓
IC-T70A	(Use with BC-147) ✓	(Use with BC-123) ✓	(Use with BC-191 or BC-193) ✓		(Use with BC-192) ✓		✓*6		✓*6
IC-V80	(Use with BC-147) ✓	(Use with BC-123) ✓	(Use with BC-191 or BC-193) ✓		(Use with BC-192) ✓				
IC-V82, IC-U82				(Use with BC-144N or BC-119N) ✓	(Use with BC-146) ✓	(Use with BC-121N) ✓		(Use with BC-119N or BC-121N) ✓	
IC-V8				(Use with BC-144N or BC-119N) ✓	(Use with BC-146) ✓	(Use with BC-121N) ✓		(Use with BC-119N or BC-121N) ✓	

*1 BC-123SA for USA, SE for Europe and SV for Australia version available.

*2 BC-145SA for USA, SE for Europe, SV for Australia and SUK for UK version available.

*3 BC-147SA for USA, SE for Europe and SV for Australia version available.

*4 BC-157 for USA, Europe, UK and Australia versions available.

*5 BC-167SA for USA, SD for Europe and SV for Australia version available.

*6 BP-265 cannot be charged using the external DC power jack.












: Applicable












: Not applicable

OPTIONS FOR HANDHELD TRANSCEIVERS

MODEL NAME	CIGARETTE LIGHTER CABLES		DC POWER CABLES			SPEAKER-MICROPHONES			
	CP-19R with DC-DC con- verter	CP-23L	OPC-254L	OPC-515L	OPC-656 12~20V DC CABLE	HM-46/L	HM-54	HM-75A	HM-131
									
IC-92AD	✓	(Use with BC-177)	✓					(Use with OPC-1797)	(Use with OPC-1797)
IC-80AD	✓	(Use with BC-139)	✓					✓	✓
IC-91AD/A	✓	(Use with BC-139)	✓					✓	✓
IC-T70A	✓ ^{*6}	(Use with BC-191 or BC-193)	✓ ^{*6}	(Use with BC-191, BC-192 or BC-193)					✓
IC-V80		(Use with BC-191 or BC-193)		(Use with BC-191, BC-192 or BC-193)					
IC-V82, IC-U82		(Use with BC-144N or BC-119N)			(Use with BC-121N)			✓	
IC-V8		(Use with BC-144N or BC-119N)			(Use with BC-121N)	(Use HM-46L)	✓	✓	





*6 BP-265 cannot be charged using the external DC power jack.








MODEL NAME	SPEAKER-MICROPHONES					EARPHONE-MICROPHONES		HEADSETS	
	HM-158L	HM-159L	HM-174 IPX7	HM-175GPS IPX7 GPS	HM-189GPS GPS	HM-153/L	HM-166/L	HS-94 Earhook type with boom microphone	HS-95 Behind-the-head type
									
IC-92AD			✓	✓		(Use HM-153 with OPC-1797)	(Use HM-166 with OPC-1797)		
IC-80AD					✓	(Use HM-153)	(Use HM-166)		
IC-91AD/A						(Use HM-153)	(Use HM-166)		
IC-T70A						(Use HM-153)		(Use with OPC-2006)	(Use with OPC-2006)
IC-V80	✓	✓				(Use HM-153L)		(Use with OPC-2004)	(Use with OPC-2004)
IC-V82, IC-U82	✓	✓				(Use HM-153L)	(Use HM-166L)	(Use with VS-1L)	(Use with VS-1L)
IC-V8	✓	✓				(Use HM-153L)	(Use HM-166L)		

MODEL NAME	HEADSETS	VOX/PTT CASE	EARPHONES		PLUG ADAPTER CABLES			BELT CLIPS	
	HS-97 Throat microphone type	VS-1L	SP-13	SP-27	OPC-1797	OPC-2004	OPC-2006	MB-86 Swivel type	MB-103 Alligator type
									
IC-92AD			(Use with OPC-1797)		✓				
IC-80AD			✓	✓				✓	
IC-91AD/A			✓	✓					
IC-T70A	(Use with OPC-2006)			✓			✓		
IC-V80	(Use with OPC-2004)			✓		✓			
IC-V82, IC-U82	(Use with VS-1L)	✓	✓	✓				✓	✓
IC-V8			✓	✓				✓	✓


☒ : Applicable
 ☐ : Not applicable

OPTIONS FOR HANDHELD TRANSCEIVERS

	BELT CLIPS		LEATHER BELT HANGERS		CARRYING CASES			DIGITAL UNITS	
MODEL NAME	MB-111 Alligator type 	MB-124 Alligator type 	MB-96N Swivel type. MB-86 swivel joint supplied 	MB-96F Fixed type 	LC-163 	LC-168 	LC-174 	UT-118 	UT-121 
IC-92AD	✓					✓			
IC-80AD					✓				
IC-91AD/A					✓				(Already installed in IC-91AD)
IC-T70A		✓					✓		
IC-V80		✓							
IC-V82, IC-U82			✓	✓				✓	
IC-V8			✓	✓					

	DTMF DECODER UNIT	CLONING CABLES			DATA CABLES		CLONING SOFTWARE	REMOTE CONTROL SOFTWARE	
MODEL NAME	UT-108 	OPC-474 Between transceivers 	OPC-478 Transceiver to PC RS-232C cable	OPC-478UC Transceiver to PC USB cable 	OPC-1529R Transceiver to PC RS-232C cable 	OPC-1799 Transceiver to PC RS-232C cable 	CS-80/880 ^{*1*} CS-T70 ^{*2} CS-V8 CS-V80 ^{*2} CS-V82 Optional OPC-478, OPC-478UC or OPC-1529R cable required for programming.	RS-91 ^{*2} OPC-1529R cable included 	RS-92 ^{*2} OPC-1799 cable included 
IC-92AD		(Use with two OPC-1799s)				✓			✓
IC-80AD		✓	✓	✓	✓		(Use CS-80/880)		
IC-91AD/A		✓			✓			✓	
IC-T70A		✓	✓	✓			(Use CS-T70)		
IC-V80		✓	✓	✓			(Use CS-V80)		
IC-V82, IC-U82	✓	✓	✓				(Use CS-V82)		
IC-V8	✓	✓	✓				(Use CS-V8)		

^{*1} CS-80/880 is available for free download from:
<http://www.icom.co.jp/world/support/index.html>
^{*2} Windows® 7 compatible.

	ANTENNA ADAPTER	ANTENNAS
MODEL NAME	AD-92SMA BNC type antenna connector 	FA-B2E FA-B70C FA-S270C
IC-92AD	✓	(Use FA-S270C)
IC-80AD	✓	(Use FA-S270C)
IC-91AD/A	✓	(Use FA-S270C)
IC-T70A	✓	(Use FA-S270C)
IC-V80		(Use FA-B2E)
IC-V82, IC-U82		(Use FA-B2E/B70C)
IC-V8		(Use FA-B2E)



: Applicable



: Not applicable

SPECIFICATIONS FOR HF/50MHz TRANSCEIVERS

		IC-7800	IC-7700	IC-7600	IC-7200
General	Frequency coverage (Differs according to version)	Tx: 1.8, 3.5, 5*1, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60MHz*2 *1 Depending on version. *2 Some frequency ranges are not guaranteed.	Tx: 1.8, 3.5, 5*1, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60MHz*2 *1 Depending on version. *2 Some frequency ranges are not guaranteed.	Tx: 1.8, 3.5, 5*1, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60MHz*2 *1 Depending on version. *2 Some frequency ranges are not guaranteed.	Tx: 1.8, 3.5, 5*1, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60.000MHz*2 *1 Depending on version. *2 Some frequency ranges are not guaranteed.
	Modes	USB, LSB, CW, RTTY, PSK31, AM, FM	USB, LSB, CW, RTTY, PSK31, AM, FM	USB, LSB, CW, RTTY, PSK31, AM, FM	USB, LSB, CW, RTTY, AM
	Frequency stability	±0.05ppm (0°C to +50°C; +32°F to +122°F, after warm up)	±0.05ppm (0°C to +50°C; +32°F to +122°F, after warm up)	±0.5ppm (0°C to +50°C; +32°F to +122°F, after warm up)	±0.5ppm (–10°C to +60°C; +14°F to +140°F)
	Maximum current drain	800VA	800VA	23A at 13.8V DC	22A at 13.8V DC
	Power supply requirement	85–265V AC (Autosensing)	85–265V AC (Autosensing)	13.8V DC ±15%	13.8V DC ±15%
	Antenna connector	SO-239 × 4 + BNC × 2 (50Ω)	SO-239 × 4 + BNC (50Ω)	SO-239 × 2 + phono [(RCA) 50Ω]	SO-239 (50Ω)
	Number of memory channels	101 (99 regular, 2 scan edges)	101 (99 regular, 2 scan edges)	101 (99 regular, 2 scan edges)	201 (199 regular, 2 scan edges)
	Dimensions (W×H×D; Projections are not included)	424×149×435 mm; 16 ¹¹ / ₁₆ ×5 ⁷ / ₈ ×17 ¹ / ₈ in	425×149×437 mm; 16 ²³ / ₃₂ ×5 ⁷ / ₈ ×17 ¹⁷ / ₃₂ in	340×116×279.3 mm; 13 ³ / ₈ ×4 ⁹ / ₁₆ ×11 in	241×84×281 mm; 9 ¹ / ₂ ×3 ⁵ / ₈ ×11 ¹ / ₁₆ in
	Weight (approx.)	25kg; 55lb	22.5kg; 49.6lb	10.0kg; 22lb	5.5kg; 12.1lb
Transmitter	Output power	SSB, CW, RTTY, PSK31, FM: 5–200W AM: 5–50W	SSB, CW, RTTY, PSK31, FM: 5–200W AM: 5–50W	SSB, CW, RTTY, PSK31, FM: 2–100W AM: 1–30W	SSB, CW, RTTY: 2–100W AM: 1–25W
	Spurious emissions	Less than –60dB (HF) Less than –70dB (50MHz)	Less than –60dB (HF) Less than –70dB (50MHz)	Less than –50dB (HF) Less than –63dB (50MHz)	Less than –50dB (HF) Less than –63dB (50MHz)
	Carrier suppression	More than 63dB	More than 63dB	More than 40dB	More than 50dB
	Unwanted sideband	More than 80dB	More than 80dB	More than 55dB	More than 50dB
	Microphone connector	8-pin connector (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)
Receiver	Sensitivity (typical) Preamp ON SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12dB SINAD	SSB, CW, RTTY, PSK31 (2.4kHz): 0.1–1.799MHz 0.5μV 1.8–29.999MHz 0.16μV 50–54MHz 0.13μV AM (6kHz): 0.1–1.799MHz 6.3μV 1.8–29.999MHz 2.0μV 50–54MHz 1.0μV FM (15kHz): 28–29.999MHz 0.5μV 50–54MHz 0.32μV	SSB, CW, RTTY, PSK31 (2.4kHz): 0.1–1.799MHz 0.5μV 1.8–29.999MHz 0.16μV 50–54MHz 0.13μV AM (6kHz): 0.1–1.799MHz 6.3μV 1.8–29.999MHz 2.0μV 50–54MHz 1.0μV FM (15kHz): 28–29.999MHz 0.5μV 50–54MHz 0.32μV	SSB, CW, RTTY (2.4kHz): 1.8–29.995MHz 0.15μV 50–54MHz 0.12μV AM (6kHz): 0.5–1.799MHz 6.3μV 1.8–29.995Hz 2.0μV 50–54MHz 1.6μV FM (15kHz): 28–29.7MHz 0.5μV 50–54MHz 0.3μV	SSB, CW: 1.8–29.999MHz 0.16μV 50–54MHz 0.13μV AM: 0.5–1.8MHz 13μV 1.8–29.995MHz 2.0μV 50–54MHz 1.0μV
	Selectivity	SSB: 2.4kHz/–3dB (2.4kHz) 3.6kHz/–60dB CW: 500Hz/–3dB (500Hz) 700Hz/–60dB RTTY, PSK31: 360Hz/–6dB (350Hz) 650Hz/–60dB AM: 6.0kHz/–3dB (6kHz) 15kHz/–60dB FM: 12kHz/–6dB (15kHz) 20kHz/–60dB * Variable between 50Hz and 3.6kHz	SSB, RTTY: 2.4kHz/–3dB (2.4kHz) 3.6kHz/–60dB CW: 500Hz/–3dB (500Hz) 700Hz/–60dB AM: 6.0kHz/–3dB (6kHz) 15kHz/–60dB FM: 12kHz/–6dB (15kHz) 20kHz/–60dB * Variable between 50Hz and 3.6kHz	SSB: 2.4kHz/–6dB (2.4kHz) 3.8kHz/–60dB CW: 500Hz/–6dB (500Hz) 900Hz/–60dB RTTY: 350Hz/–6dB (350Hz) 650Hz/–60dB AM: 6.0kHz/–6dB (6kHz) 15kHz/–60dB FM: 12kHz/–6dB (15kHz) 20kHz/–60dB * Variable between 50Hz and 3.6kHz.	SSB: 2.4kHz/–6dB (2.4kHz) 3.6kHz/–60dB CW: 500Hz/–6dB (500Hz) 900Hz/–60dB RTTY: 360Hz/–6dB (350Hz) 650Hz/–60dB AM: 6.0kHz/–6dB (6kHz) 15.0kHz/–60dB * Variable between 50Hz and 3.6kHz.
	Spurious and image rejection	More than 70dB	More than 70dB	More than 70dB* (* Except IF point on 50MHz band)	More than 70dB* (* Except 1/2 IF point on 50MHz band)
	AF power (at 10% distortion with an 8Ω load)	More than 2.6W	More than 2.6W	More than 2.0W	More than 2.0W
	External speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω×2 (for main and sub bands)	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω

The LCD display may have cosmetic imperfections that appear as small or dark spots. This is not a malfunction or defect, but a normal characteristic of LCD displays.

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

SPECIFICATIONS FOR HF/50MHz/VHF/UHF ALL MODE TRANSCEIVERS

		IC-718	IC-7000	IC-910H
General	Frequency coverage (Differs according to version)	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28MHz bands Rx: 30kHz–29.999MHz* ¹ * ¹ Guaranteed range 0.5–29.999MHz.	Tx: 1.8, 3.5, 5*, 7, 10, 14, 18, 21, 24, 28, 50, 144, 430(440)MHz bands Rx: 30kHz–199.999, 400–470MHz* ² * ¹ Depending on version. * ² Some frequency ranges are not guaranteed.	U.S.A. version: Tx: 144–148, 430–450, 1240–1300* ¹ MHz Rx: 136–174* ² , 420–480* ² , 1240–1320* ¹ MHz
	Modes	USB, LSB, CW, RTTY, AM	USB, LSB, CW, RTTY, AM, FM, WFM* (*Rx only)	USB, LSB, CW, FM, FM-N (FM-N is not available in 1200MHz band)
	Frequency stability	Less than ±200Hz (From 1 min. to 60 min. after power ON)	±0.5ppm (0°C to +50°C; +32°F to +122°F)	±3ppm (–10°C to +60°C; +14°F to +140°F)
	Maximum current drain	20A at 13.8V DC	22A at 13.8V DC	23A at 13.8V DC
	Power supply requirement	13.8V DC ±15%	13.8V DC ±15%	13.8V DC ±15%
	Antenna connector	SO-239 (50Ω)	SO-239 × 2 (for HF/50MHz and 144/430(440)MHz bands: 50Ω)	144MHz SO-239 (50Ω) 440MHz Type-N (50Ω) 1200* ¹ MHz Type-N (50Ω)
	Number of memory channels	101 (99 regular, 2 scan edges)	503 (495 regular, 6 scan edges and 2 call)	328* ¹ (99 regular, 6 scan edges and 1 call for each band plus 10 satellite memories)
	Dimensions (W×H×D; Projections are not included)	240×95×239 mm; 9 ⁷ / ₁₆ ×3 ³ / ₄ ×9 ¹³ / ₃₂ in	167×58×180 mm; 6 ⁹ / ₁₆ ×2 ⁹ / ₃₂ ×7 ⁹ / ₃₂ in	241×94×239 mm; 9 ⁷ / ₂ ×3 ¹ / ₁₆ ×9 ¹³ / ₃₂ in
	Weight (approx.)	3.8kg; 8.4lb	2.3kg; 5.1lb	4.5kg; 9.9lb (IC-910H) 850g; 1.9lb (UX-910)
Transmitter	Output power	SSB, CW, RTTY: 2–100W AM: 2–35W	SSB, CW, RTTY, FM: 1.8–50MHz 2–100W 144MHz 2–50W 430(440)MHz 2–35W AM: 1.8–50MHz 1–40W 144MHz 2–20W 430(440)MHz 2–14W	144MHz 5–100W 440MHz 5–75W 1200MHz* ¹ 1–10W
	Spurious emissions	Less than –50dB	Less than –50dB (HF) Less than –60dB (other bands)	Less than –60dB (144/430MHz) Less than –50dB (1200MHz* ¹)
	Carrier suppression	More than 40dB	More than 50dB	More than 40dB
	Unwanted sideband	More than 50dB	More than 50dB	More than 40dB
	Microphone connector	8-pin connector (600Ω)	8-pin modular (600Ω)	8-pin connector (600Ω)
Receiver	Sensitivity (typical) Preamp ON SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12dB SINAD	SSB, CW, RTTY: 1.8–29.999MHz 0.16μV AM: 0.5–1.799MHz 13μV 1.8–29.999MHz 2.0μV	SSB, CW: 1.8–29.999MHz 0.15μV 50–54MHz 0.12μV 144/430(440)MHz 0.11μV AM: 0.5–1.8MHz 13μV 1.8–29.999MHz 2.0μV 50–54MHz 1.0μV 144/430(440)MHz 1.0μV FM: 28–29.7MHz 0.5μV 50–54MHz 0.25μV 144/430(440)MHz 0.18μV WFM: 76–108MHz 10μV	SSB, CW: 0.11μV FM: 0.18μV
	Selectivity	SSB, CW, RTTY: 2.1kHz/–6dB 4.5kHz/–60dB AM: 6.0kHz/–6dB 20kHz/–40dB	SSB: 2.4kHz/–6dB (2.4kHz) 3.6kHz/–60dB CW: 500Hz/–6dB (500Hz) 900Hz/–60dB RTTY: 360Hz/–6dB (350Hz) 650Hz/–60dB AM: 6.0kHz/–6dB (6kHz) 15kHz/–60dB FM: 12kHz/–6dB (15kHz) 20kHz/–60dB	SSB, CW: 2.3kHz/–6dB 4.2kHz/–60dB FM: 15kHz/–6dB 30kHz/–60dB FM-N: 6.0kHz/–6dB 18kHz/–60dB
	Spurious and image rejection (except IF)	More than 70dB (1.8–29.999MHz)	More than 70dB (HF) More than 65dB (other bands; except ¹ / ₂ IF point on 50MHz, IF point 144MHz band)	More than 60dB (144/440MHz band) More than 50dB (1200MHz band* ¹)
	AF power (at 10% distortion with an 8Ω load)	More than 2.0W	More than 2.0W	More than 2.0W
	External speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω × 2 (for Main and Sub bands)

*¹ An optional UX-910, 1200MHz band unit is required for 1200MHz operation.

*² Guaranteed range 144–148, 430–450MHz

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SPECIFICATIONS FOR MOBILE TRANSCEIVERS

	ID-1	IC-2820H	ID-880H
Frequency coverage (Differs according to version)	1240–1300MHz	U.S.A. version: Tx 144–148, 430–450MHz* ¹ Rx (L) 118–549.995MHz* ¹ (R) 118–173.995, 375–549.995, 810–999.990MHz* ^{1*2} EXP version: Tx 137–173.995, 400–470MHz* ³ Rx (L) 118–549.995MHz* ³ (R) 118–173.995, 375–549.995, 810–999.990MHz* ³	U.S.A. version : Tx 144–148, 430–450MHz Rx 118–173.995, 230–549.995, 810–999.990MHz* ^{2*4} EXP version : Tx 136–173.995, 400–469.995MHz* ³ Rx 118–173.995, 230–549.995, 810–999.990MHz* ³
Max. current drain	7A	13A	VHF 11.5A UHF 12.5A
Dimensions (W×H×D; Proj. not included)	Main unit: 141×40×165.8 mm; 5 ⁹ / ₁₆ ×1 ⁹ / ₁₆ ×6 ¹⁷ / ₃₂ in Controller: 150×50×49.5 mm; 5 ²⁹ / ₃₂ ×1 ³¹ / ₃₂ ×1 ¹⁵ / ₁₆ in	Main unit: 150×40×187.7 mm; 5 ²⁹ / ₃₂ ×1 ⁹ / ₁₆ ×7 ³ / ₈ in Controller: 150×58×31.5 mm; 5 ²⁹ / ₃₂ ×2 ⁹ / ₃₂ ×1 ¹ / ₄ in	Main + controller 150×40×199.2 mm; 5 ²⁹ / ₃₂ ×1 ⁹ / ₁₆ ×7 ²⁷ / ₃₂ in Controller: 122×40×29.7 mm; 4 ¹³ / ₁₆ ×1 ⁹ / ₁₆ ×1 ⁵ / ₃₂ in
Weight (approx.)	Main unit: 1.2kg; 2.6lb Controller: 220g; 7.7oz	Main unit: 1.5kg; 3.3lb Controller: 210g; 7.4oz (With OPC-1712)	1.3kg; 2.9lb (without microphone, cable and bracket)
Output power (at 13.8V DC; Differs according to version)	High: 10W Low: 1W (approx.)	High: 50W Mid.: 15W (approx.) Low: 5W (approx.)	High: 50W Mid.: 15W (approx.) Low: 5W (approx.)
Sensitivity (FM: at 12dB SINAD DV, DD: at BER 1% Guaranteed range)	DV Less than 0.35μV DD Less than 1.58μV FM Less than 0.18μV	DV Less than 0.35μV (with UT-123) FM Less than 0.18μV (144, 430 (440) MHz bands)	DV Less than 0.35μV FM Less than 0.18μV (144, 430 (440) MHz bands)

*¹ Guaranteed range 144–148 and 440–450MHz. *² Cellular blocked. *³ Guaranteed range 144–148 and 430–440MHz.

*⁴ Guaranteed range 144–148 and 430–450MHz. (L) means left side receiver, (R) means right side receiver.

	IC-208H	IC-V8000	IC-2200H
Frequency coverage (Differs according to version)	U.S.A. version: Tx 144–148, 420–450MHz* ¹ Rx 118–173.995, 230–549.995, 810–999.990MHz* ^{1*2} EXP version: Tx 136–173.995, 400–478.995MHz* ³ Rx 118–173.995, 230–549.995, 810–999.990MHz* ³	U.S.A. version Tx 144–148 Rx 136–174* ⁴ CSA version Tx/Rx 136–174* ⁴	U.S.A. version: Tx 144–148 Rx 118–174* ⁵ EXP version: Tx 136–174* ⁵ Rx 118–174* ⁵
Max. current drain	VHF 12A UHF 11.5A	15A	15A
Dimensions (W×H×D; Proj. not included)	141×40×185.4 mm; 5 ⁹ / ₁₆ ×1 ⁹ / ₁₆ ×7 ⁵ / ₁₆ in	150×50×150 mm; 5 ²⁹ / ₃₂ ×1 ³¹ / ₃₂ ×5 ²⁹ / ₃₂ in	140×40×196 mm; 5 ¹ / ₂ ×1 ⁹ / ₁₆ ×7 ²³ / ₃₂ in
Weight (approx.)	1.2kg; 2.6lb	1.09kg; 2.4lb	1.25kg; 2.75lb
Output power (at 13.8V DC; Differs according to version)	144MHz High: 55W Mid.: 15W (approx.) Low: 5W (approx.) 430 (440) MHz High: 50W Mid.: 15W (approx.) Low: 5W (approx.)	High: 75W Mid-Hi: 25W (approx.) Mid-Lo: 10W (approx.) Low: 5W (approx.)	High: 65W Mid-Hi: 25W (approx.) Mid-Lo: 10W (approx.) Low: 5W (approx.)
Sensitivity (at 12dB SINAD Guaranteed range)	Less than 0.18μV (144, 430 (440) MHz bands)	0.15μV typ.	0.133μV typ.

*¹ Guaranteed range 144–148 and 440–450MHz. *² Cellular blocked. *³ Guaranteed range 144–148 and 430–440MHz. *⁵ Guaranteed range 144–148MHz.

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SPECIFICATIONS FOR HANDHELD TRANSCEIVERS

	IC-92AD	IC-80AD	IC-91AD IC-91A	IC-T70A
Frequency coverage (Differs according to version, Unit: MHz)	U.S.A. version: Tx 144–148, 420–450* ¹ Rx (A) 0.495–999.990* ^{1*2} (B) 118–174, 350–470* ¹ EXP version: Tx 137–174, 400–470* ³ Rx (A) 0.495–999.990* ³ (B) 118–174, 350–470* ³	U.S.A. version: Tx 144–148, 420–450* ¹ Rx 0.495–999.990* ^{1*2} EXP version: Tx 137–174, 400–470* ³ Rx 0.495–999.990* ³	U.S.A. version: Tx 144–148, 420–450* ¹ Rx (A) 0.495–999.990* ^{1*2} (B) 118–174, 350–470* ¹ EXP version: Tx 137–174, 400–470* ³ Rx (A) 0.495–999.990* ³ (B) 118–174, 350–470* ³	U.S.A. version Tx 144–148, 420–450* ¹ Rx 136–174, 400–479* ¹ EXP version: Tx/Rx 136–174, 400–479* ³
Dimensions (W×H×D; Proj. not included)	59×112×34.2 mm; 2 ⁵ / ₁₆ ×4 ¹³ / ₃₂ ×1 ¹¹ / ₃₂ in	58.4×103×34.2 mm; 2 ⁵ / ₁₆ ×4 ¹ / ₁₆ ×1 ¹¹ / ₃₂ in	58.4×103×34.2 mm; 2 ⁵ / ₁₆ ×4 ¹ / ₁₆ ×1 ¹¹ / ₃₂ in	58×111×30 mm; 2 ⁹ / ₃₂ ×4 ³ / ₈ ×1 ³ / ₁₆ in
Weight (approx.)	325g; 11.5oz with antenna and BP-256	290g; 10.3oz with antenna and BP-217	300g; 10.6oz with antenna and BP-217	380g; 13.4oz with antenna and BP-264
Output power (typical values)	5W, 2.5W, 0.5W, 0.1W at 7.4V DC	5W, 2.5W, 0.5W, 0.1W at 7.4V DC	5W, 0.5W at 7.4V DC	5W, 2.5W, 0.5W at 7.2V DC
Sensitivity (FM: at 12dB SINAD DV: at BER 1% Guaranteed range)	DV 0.22μV typ. FM 0.14μV/0.16μV typ. (144/440 MHz bands)	DV 0.22μV typ. FM 0.14μV/0.16μV typ. (144/440 MHz bands)	DV 0.22μV typ. (with UT-121) FM 0.14μV/0.16μV typ. (144/440 MHz bands)	0.18μV typ.

*¹ Guaranteed range 144–148MHz and 440–450MHz. *² Cellular blocked. *³ Guaranteed range 144–148MHz and 430–440MHz. (A) means VFO A receiver, (B) means VFO B receiver.

	IC-V80	IC-V82 IC-U82	IC-V8
Frequency coverage (Differs according to version, Unit: MHz)	U.S.A. version: Tx 144–148 Rx 136–174* ⁴ EXP version: Tx/Rx 136–174* ⁴	IC-V82 (U.S.A. version): Tx 144–148 Rx 136–174* ⁴ IC-V82 (EXP version): Tx/Rx 136–174* ⁴ IC-U82 (U.S.A. version): Tx 420–450* ⁵ Rx 400–479* ⁵ IC-U82 (EXP version): Tx/Rx 400–479* ⁶	U.S.A. version: Tx 144–148 Rx 136–174* ⁴ GEN version: Tx/Rx 136–174* ⁴
Dimensions (W×H×D; Proj. not included)	58×112×30 mm; 2 ⁹ / ₃₂ ×4 ¹³ / ₃₂ ×1 ³ / ₁₆ in	54×139×36.7 mm; 2 ¹ / ₈ ×5 ¹⁵ / ₃₂ ×1 ⁷ / ₁₆ in	54×132×35 mm; 2 ¹ / ₈ ×5 ³ / ₁₆ ×1 ³ / ₈ in
Weight (approx.)	360g; 12.7oz with antenna and BP-264	390g; 13.8oz with antenna and BP-222N	350g; 12.3oz with antenna and BP-222N
Output power (typical values)	5.5W, 2.5W, 0.5W at 7.2V DC	IC-V82 (at 7.2V DC) 7W, 4W, 0.5W IC-U82 (at 7.2V DC) 5W, 2W, 0.5W	5.5W, 0.5W at 7.2V DC
Sensitivity (FM: at 12dB SINAD DV: at BER 1% Guaranteed range)	0.14μV typ.	0.16μV typ.	0.16μV typ.

*⁴ Guaranteed range 144–148MHz. *⁵ Guaranteed range 440–450MHz. *⁶ Guaranteed range 430–440MHz.

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Applicable U.S. Military Specifications

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