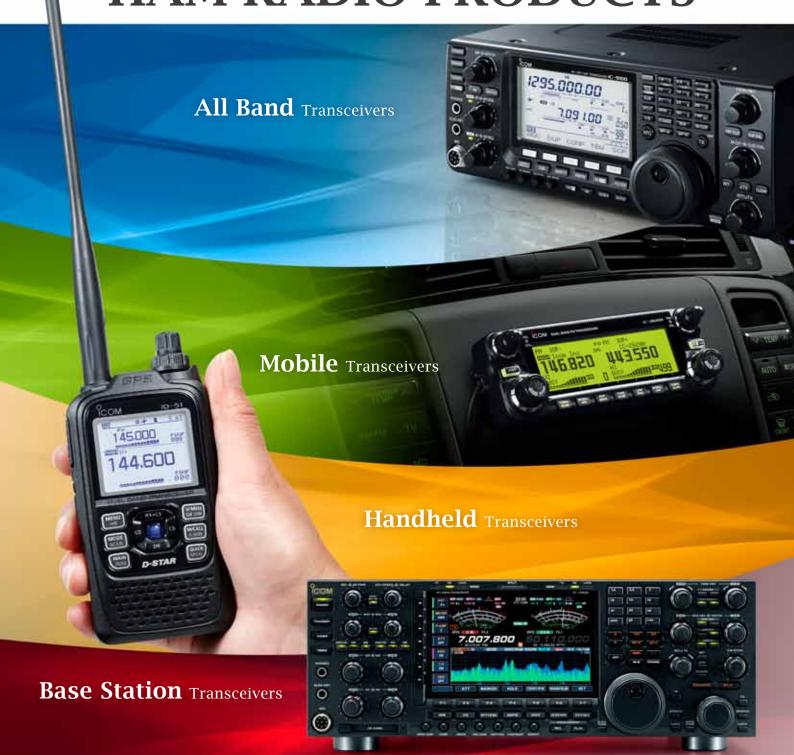
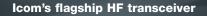


HAM RADIO PRODUCTS





+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

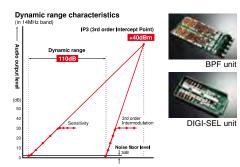


HF/50MHz TRANSCEIVER IC-7800

+40dBm IP3

(3rd order Intercept Point)

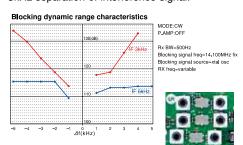
Icom's considerable analog RF circuit experience combined with cutting-edge digital technology results in an astonishing 110dB receiver dynamic range and a +40dBm IP3 in the HF bands – the first in ham radio! To achieve this superior receiver performance, Icom's engineering team completely re-engineered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



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.



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 ± 0.05 ppm from 0°C to 50°C. This specification means that even on the 50MHz band, frequency error is less than 2.5Hz!

Base Station Transceivers



200W Output Power, Built-in

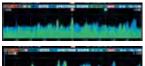
The power amplifier uses push-pull power MOS-FETs with a 48V DC supply. They provide a powerful 200W of output at 100 percent duty cycle. An effective cooling system maintains internal temperatures within a safe range and prevents thermal runaway.



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 ±2.5kHz to ±250kHz 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 (800×400 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

[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

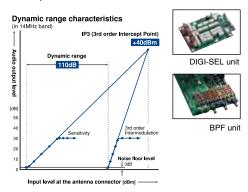
200W output power and high-stability transmitter

TRANSMIT VOX BK-IN MONITOR METER PO PAMP OFF ATT OFF VSC AGC-9-SQL NR-9-NB 1/4 OFF VSC OFF SPAN ATT OFF SSB CW DRIVE COMP MONIGAIN

HF/50MHz TRANSCEIVER

+40dBm IP3 (3rd order Intercept Point) and 110dB Dynamic Range

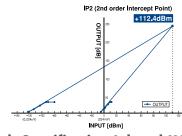
The IC-7700 employs mechanical relay BPF switching, a digitally tuned pre-selector, and three hi-spec 1st IF filters (roofing filters) in a clean and simple double conversion superheterodyne design. By balancing the analog and DSP functions, the IC-7700 provides superior sensitivity simultaneously with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



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

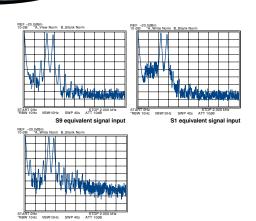
An IP2 point of more than +110dBm* means 2nd order distortion from strong broadcast stations will be completely eliminated. The continuous pursuit of leading analog circuit engineering makes it possible to achieve this leading edge level of performance.

- * 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 +85dBm.



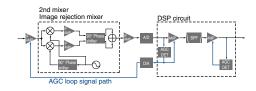
High Specification Inband IMD

Inband 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 passband 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.



Base Station Transceivers



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 (800×400 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 ±2.5kHz to ±250kHz 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

I C - 7 8 0 0 and IC-7700, thanks to the combination of dual DSP and our analog RF design expertise.



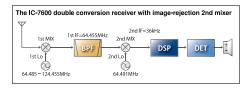
Dual DSP

104dB Dynamic Range and +30dBm IP3 (3rd order Intercept Point)

An astonishing 104dB receiver dynamic range and +30dBm IP3 in the 14MHz band 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.

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.



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.

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.

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] • Spectrum scope • USB connectors on the front and rear panel • RTTY/PSK31 operation with a USB keyboard • 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

Base Station Transceivers



HF/50MHz TRANSCEIVER

Faster DSP unit and in-house DSP expertise

Double-conversion superheterodyne

+30dBm class third-order intercept point (IP3)

Faster DSP Unit and In-house DSP Expertise

Icom brings out the best DSP performance combining more than ten years of DSP technical know-how and much faster DSP processors. Icom's in-house DSP experts have

developed a IC-746PRO series replacement that every operator will be proud to own. In addition to the higher speed DSP, the AD/DA converter, AK4620, provides a higher dynamic range and superior S/N ratio.





< DSP unit> ADSP-21369
 Internal clock speed: 339MHz
 32-bit floating point DSP
 Max. performance: 2000MFLOPS
 ADC Dynamic range, S/N: 113dB
 DAC Signal/(Noise+Distortion): 97dB
 DAC Dynamic range, S/N: 115dB
 DAC Dynamic range, S/N: 115dB

Double-conversion Superheterodyne

Introduced with the IC-7800, a conversion superheterodyne design with an image rejection mixer for the 2nd mixer stage is employed in the IC-7410. This receiver design not only reduces the electronic complexity, it greatly reduces the number of internal distortion points from older triple and quadruple conversion receivers.

+30dBm Class IP3 (3rd Order Intercept Point)

In Icom's continuing efforts to create the best receiver, the design of the IC-7410 incorporates the latest in DSP software technology and Icom's analog RF circuit experience for a +30dBm* (typ.) IP3. The end result, clear reception of weak signals surrounded by QRM from broadcast and neighboring ham stations. * Typical in 14MHz band. Spacing=100kHz

Three First IF Filters (3/6/15kHz)

The IC-7410 accommodates three 1st IF filters with the 15kHz, 1st IF filter supplied, while the 3kHz FL-431 and 6kHz FL-430 are optional for better receiver performance by protecting the desired signal from nearby strong signals. (Fixed for 15kHz in FM mode.)

Other Features

- Digital Twin PBT AGC loop management with programmable AGC time constant Auto/manual Notch Filter provides more than 70dB attenuatio
- Noise Reduction RF Speech Compressor
- User programmable tone control
 Built-in voice synthesizer
 User programmable band edge beep
 VSC (Voice Squelch Control) function
 Two preamplifier types: Preamp 1: Improving IMD characteristics, Preamp 2: High gain preamplifier
 20dB built-in attenuator
- Built-in automatic antenna tuner
 CTCSS tone encoder and decoder
 Triple band stacking register
 Quick split and frequency lock functions
 RIT and ∠Tx variable up to ±9.999kHz
 SSB/CW
- synchronous tuning 1Hz pitch tuning and display ± 0.5 ppm of high frequency stability Program, memory, select memory, mode select and Δf scans Automatic tuning steps



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 protec-

tion 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.

Other Features

• Digital Twin PBT • Manual Notch Filter • RIT • VOX • ±0.5ppm frequency stability • LCD backlight (Hi/Lo/Off) • CI-V interface • 201 memory channels • Built-in 20dB attenuator • Preamplifier • Dial lock • Auto tuning step function • 1Hz step tuning • Band stacking register • Built-in voice synthesizer • Quick split • Front facing speaker • USB connector for PC control



IC-7100

Intuitive Touch Screen Interface

Controls at Your Fingertips with an Angled Display

HF, 50/144/440MHz Multi-band, Multi-mode

Intuitive Touch Screen Interface

The innovative touch screen interface provides quick and smooth operation for setting and editing various functions and memories.

■One Touch Selection

For example, if you want to change the operating band, tap the frequency on the display. The band keys will be shown to select the operating

band. Touching the multi-function meter indicator for 1 second will quickly change the transmit meter functions.



Straight Forward Operation

Just tap the mode, filter, function etc, you need to change. The touch screen responds naturally changing your settings.



Software Keypad

Entering frequency, callsign or editing memory channels has never been this

easy. The software keypad on the touch screen allows you to input alphanumeric characters incredibly quickly.



Touch Screen Control Portal

The radio control head features a large, multifunction, "touch screen" dot-matrix LCD display that is positioned for easy view and operation. The controller is compact in size, making it ideal for limited vehicle or desktop space.

Resistive Touch Screen

The 48.6x75.9 mm; 1.91x2.99 in large resistive touch screen display can be operated while wearing gloves.

Controller Mounted Speaker and Jacks

The unique remote head design is perfect for

providing loud, clear audio as well as jacks for an external speaker/headphones as well as a key and microphone.



HF, 50/144/440MHz Multi-band, Multi-mode

The IC-7100 fully covers the HF, 50, 144, 430/440 MHz amateur bands in multiple modes, providing 100W on HF/50MHz bands, 50W on 144MHz band and 35W on 430/440MHz band.

D-STAR DV Mode (Digital Voice + Data)

The IC-7100 provides D-STAR DV mode digital voice and low speed data communication.

IDR (D-STAR Repeater) Mode Operation

The DR mode operation makes the D-STAR operation simple and straight forward, even if you are new to D-STAR operation.

Near Repeater Function

With an external, 3rd party GPS*, search the internal database based on your location.

* External GPS receiver or manual data input required.

Other Features

- Digital features controlled by the IF DSP
- DSP controlled AGC function loop
 SD memory card slot for saving data
 Easy vehicle mounting with optional MBF-1
- Optional RS-BA1 IP remote control software •Built-in RTTY Functions CW full break-in, CW receive reverse, CW auto tuning
- Optional multi-function microphone, HM-151
- Band scope and SWR graphic display RF speech compressor controlled by the DSP
- Voice memory function Multi-function Meter
- 495 regular, 4 call, 6 scan edge and 900 DR mode repeater channels
 4 channels TX voice memories
 ±0.5ppm frequency stability
 Auto reply function
 Digital callsign squelch and digital code squelch
 12.5kHz IF output for DRM (Digital Radio Mondiale) receive
- * D-STAR DV mode only

IP REMOTE CONTROL SOFTWARE

RS-BA1

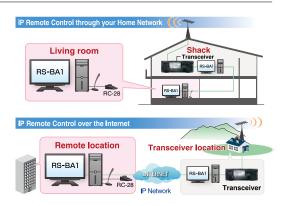
Optional RS-BA1 IP Remote Control Software

The optional RS-BA1 allows you to use the transceiver from another room using your home network, or even from a remote location over the Internet. The RS-BA1 has low voice latency.



USB REMOTE ENCODER RC-28





Base Station Transceivers



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.

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 70dB 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 an 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 centermode band scope • Multi-function meter and SWR graphic displays • Front panel separation with optional separation cable • Built-in voice synthesizer



HF TRANSCEIVER



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.

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.



* Already built-in to USA version.

Optional UT-106

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 tunor Digital

• Optional automatic antenna tuner • Digital S/RF meter



HF/VHF/UHF TRANSCEIVER IC-9100

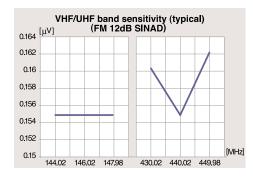
Superb readability in the VHF/UHF band

> Ready-to-install 1200MHz band unit

Satellite mode operation

Superb Readability in the **VHF/UHF Band**

The IC-9100 provides excellent receiver sensitivity in the VHF/UHF bands, equivalent to the highly-acclaimed previous VHF/UHF dedicated model, the IC-910H. The IF DSP greatly improves intermodulation and noise elimination and offers better readability than the IC-910H.



Ready-to-install 1200MHz Band Unit

By installing the optional UX-9100 1200MHz band

unit, you can be operational on the 1200MHz band immediately The IC-9100 fully covers the HF/50, 144, 430/440 and 1200MHz amateur bands in multiple modes.



UX-9100, 1200MHz band unit

Satellite Mode Operation

The satellite mode synchronizes the uplink (transmitting) and downlink (receiving) frequencies, and tracks the frequencies in the same tuning step. This function matches both normal and reverse mode satellites. Compensation of the Doppler effect can be performed easily. 20 satellite memory channels store frequencies, mode and tone settings for quick set-up.

Double Conversion Superheterodyne

Icom's basic idea about the best receiver circuit is to reproduce high fidelity audio without internal distortion. Our answer to achieve this goal is to adopt a double conversion superheterodvne system* The double conversion system simplifies the electronic circuitry and reduces the number of components which cause internal distortion. The digital signal processing (DSP) technologies and image rejection mixer make it possible to adopt this system.

* A triple conversion system is used for the 1200MHz band.

+30dBm Class IP3

Using receiver design techniques introduced in Icom's highest grade HF transceivers, the IC-9100 has an IP3 of +30dBm* in the HF band. Even a weak signal adjacent to strong signals is clearly received by the IC-9100.

* Typical in 14MHz band. Spacing=100kHz

Three First IF Filters (3/6/15kHz) for HF/50MHz Band

The IC-9100 comes with a built-in 15kHz 1st IF filter and can accept up to two optional filters (3kHz FL-431 and 6kHz FL-430). By changing

the first IF filter width according to the operating mode, the desired is protected from adjacent inband signals at the later stages for better receiver performance.



1st IF filters (6kHz, 3kHz)

Other Features

- Optional D-STAR* DV mode (* Digital Smart Technology for Amateur Radio) • Independent dual receivers • 32-bit floating point DSP & 24-bit AD/DA converters • AGC loop management
- Digital IF filter Digital twin PBT and IF shift
- Noise reduction
 Noise blanker
 RF speech compressor • Adjustable transmit bandwidth
- HF/50MHz, 144MHz 100W, 430/440MHz 75W • RTTY demodulator and decoder • Ample CW
- functions Built-in Antenna Tuner for HF/50MHz band • Manual notch filter and auto notch filter • Large. Multi-function LCD • USB connector for
- PC control Optional CS-9100 programming software • Optional RS-BA1 IP remote control software

Mobile Transceivers



UT-123 D-STAR unit and GPS receiver

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.

Other Features

- The large 93×28 mm (3.66×1.1 in) full dot-matrix display • 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.

VHF/UHF DIGITAL TRANSCEIVER ID-880H

D-STAR DV mode capability

DR (D-STAR repeater) mode for easy setup

CS-80/880 free download software



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.

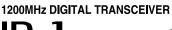
GPS Position Reporting Functions

Your position data is shown on the display and can be sent to other station*1. In addition, the GPS A mode assists in D-PRS mode operation to send your position information to an APRS server.

Other Features

- CS-80/880 free download software Total of 1052 memory channels • 16 DTMF memories
- 50 CTCSS and 104×2 DTCS encoder/ decoder*2 • Wideband receiver*3 • Detachable controller • Backlit LCD • Auto power off and on • Power save
- *1 3rd party GPS receiver is required.
- *2 FM mode
- *3 Receiver range differs depending on version.







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 builtin AMBE® vocoder chip provides digitally modulated, clear audio as well as 128kbps wireless data transmission. In DD mode operation, vou 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.

Other Features

- Wireless Internet access*1 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*2 • Stand-by beep
- *1 Within a D-STAR repeater service area. *2 Depending on version.

Mobile Transceivers



144MHz FM TRANSCEIVER

IC-2300H

65 Watts of RF Output Power with Heavy Duty Endurance

Powerful 4.5W Audio Output Provides Loud and Clear Audio

Tested to the Latest MIL-STD 810 G Specifications

Stable 65W of Output Power

The IC-2300H can generate 65W of output power. The rugged aluminum diecast provides effective heat dissipation and keeps RF output even during high duty cycle continuous transmission.

Tested to the MIL-STD 810 G Specifications
The IC-2300H is built tough to protect from a rough road. It has been tested to and has

passed the latest MIL-STD 810 G specifications including shock, vibration and temperature tests.

Other Features

- A Total of 207 memory channels Built-in CTCSS and DTCS encoder/decoder
- Simple operation Multiple scan functions
- Power supply voltage display Wide/narrow channel setting 4.5W (typical) loud audio Reduced depth dimensions DTMF autodial Time-out timer Repeater lock-out Automatic power off S-meter squelch Selectoble | CD | beddigth | color (ambar of the color) |
- Selectable LCD backlight color (amber, yellow and green)
 Weather channel receive and alert function (USA version only)
 Automatic repeater function (USA version only)
 Selectable squelch delay from short and long
 Squelch attenuator reduces suppression from strong signals
 PC to transceiver and transceiver to transceiver.
- PC to transceiver and transceiver to transceiver cloning capability





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, lcom'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.

DIG/TAL

Handheld Transceivers



VHF/UHF DIGITAL TRANSCEIVER ID-51A

V/V, U/U, V/U **Dualwatch**

Compact &

Lightweight

Independent **AM/FM Receiver**

Integrated **GPS Receiver**

Built-in

GPS Receiver

V/V, U/U, V/U Dualwatch

The dualwatch function monitors VHF/VHF. UHF/UHF and VHF/UHF bands simultaneously.* The audio and squelch levels can be set separately for the main and sub-bands. * DV/DV, AM/AM, FM-N/FM-N and DV/FM-N modes dualwatch not available.

Independent AM/FM Receiver

FM and AM broadcast stations can be listened to while using the dualwatch function. When an amateur radio band signal is received, the broadcast station is automatically muted.

Integrated GPS Receiver

The integrated GPS receiver provides fast start-up time and accurate position. Your current position and altitude are shown on the display and offers a position reporting function in DV mode. The GPS-A mode assists in easy D-PRS operation.

Other Features

 Lightweight & compact body
 D-STAR DV mode (Digital voice + data) • DR (D-STAR repeater) mode operation · Automatic repeater list-up function · microSD card slot · Automatic reply function (DV mode) · IPX7 submersible construction • 5W output power • Long lasting battery pack · CS-51 cloning software supplied • Total 1,304 memory channels including 700 D-STAR repeater memories · Automatic repeater function* automatically turns on/off duplex operation and tone encoder · Auto power save · Auto power off · Key lock function • CI-V level converter for remote radio control · Squelch release function to monitor a weak signal • External DC power jack

* USA, Korea and Export versions only.

IPX7 Submersible



UHF DIGITAL TRANSCEIVER ID-31A

Lightweight & Compact Body

The ID-31A has a compact 58×95×25.4mm (2.28×3.74×1in) body, and weighs only 225g (7.94oz) with battery pack and antenna (approx.). It's easy for carrying around all the time, anywhere.

IPX7 Submersible Construction

The ID-31A provides superior waterproof protection equivalent to IPX7 (1m depth of water for 30 minutes). Ideal for use in harsh outdoor environments.

on the display and offers a position reporting function in DV mode.

Other Features

· Automatic speech function announces the received call sign • Digital code squelch • Digital call sign squelch • One touch reply function • DR (D-STAR Repeater) mode • Automatic reply function • Analog FM mode (Wide/Narrow) • Built-in CTCSS/DTCS encoder and decoder (for analog FM) • 16 DTMF memory channels (24 digits) · Squelch release function to monitor a weak signal · Automatic repeater function* (* Depending on version) • Optional CT-17, CI-V level converter

for remote radio control · Auto power save · Auto power off

Clock function
 Priority watch
 Key lock function



Built-in GPS Receiver

The built-in GPS receiver shows your current position and altitude



VHF/UHF DUAL BAND DIGITAL TRANSCEIVER I-92AD

Features

- Wideband receiver with dualwatch capability • 5 Watts (typical) output • Total of 1304 memory channels • Large dot-matrix LCD • 10 DTMF memories • 50 CTCSS and 104×2 DTCS encoder/ decoder*3 • External DC power jack (10-16V DC acceptable) • Simple band scope • Optional PC remote control capability (with RS-92) • Built-in voice recorder records an incoming call for up to 30-seconds (approx., DV mode) • Backlit LCD • Auto power save, power off and power on • 26 memory banks with selected bank and bank link scanning
- *1 Optional GPS speaker-microphone, HM-175GPS required.
- *2 Receiver range differs from depending on version.
- *3 FM mode



Features

GPS position reporting functions*1

• CS-80/880 free download cloning software • Total of 1052 memory channels • 16 DTMF memories • 50 CTCSS and 104×2 DTCS encoder/ decoder*2 • Wideband receiver*3

• External DC power jack (10-16V DC) • Compact body with water resistance (Equivalent to IPX4)

- Backlit LCD Auto power off and on
- *1 Optional GPS speaker-microphone, HM-189GPS required.
- *2 FM mode

Power save

*3 Receiver range differs depending on version.

VHF/UHF DIGITAL TRANSCEIVER IC-80AD

D-STAR repeater



Photo includes optional HM-175GPS.











Handheld Transceivers



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

700mW loud audio with a BTL amplifier

Up to 10 hours of operating time with BP-264

VHF/UHF FM TRANSCEIVER

700mW Loud Audio

The IC-T70A uses a BTL (bridgetied load) amplifier that doubles the audio output. The 36mm large speaker delivers 700mW of loud and intelligible audio* even in noisy environments.

* Using with internal speaker.

Other Features

- External DC power jack
- · A total of 302 memory channels
- Built-in CTCSS/DTCS
- · Internal VOX function
- IP54 and MIL-STD-810 rugged construction
- WX channel and WX alert function (USA version only)
- · Power save function

- · SMA type antenna connector
- Automatic repeater function (USA version only)
- TOT (time out timer) setting
- Repeater lockout and busy channel lockout
- PC programmable with optional CS-T70
- Transceiver-to-transceiver cloning with optional OPC-474
- · Direct keypad frequency entry
- 16 DTMF autodial memories
- Auto power off LCD backlight
- · Wide/narrow channel spacing

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

Powerful 5.5W of output power

IP54 and MIL-STD-810 rugged construction

144MHz FM TRANSCEIVER

750mW Loud Audio

The IC-V80 uses a BTL (bridgetied load) amplifier that doubles the audio output. The 36mm large speaker delivers 750mW of loud and intelligible audio*. Great for noisy environments.

* Typical value using with internal speaker.

Other Features

- A total of 207 memory channels
- Built-in CTCSS/DTCS
- Internal VOX function
- WX channel and weather alert function (USA version only)
- Program, memory, skip, priority and tone scans
- Power save function
- · BNC type antenna connector

- Automatic repeater function (USA version only)
- TOT (time out timer) setting
- Repeater lockout and busy channel lockout
- PC programmable with optional CS-V80
- Transceiver-to-transceiver cloning with optional OPC-474
- Direct keypad frequency entry
- · DTMF autodial memories
- Auto power off
- LCD backlight
- · Wide/narrow channel spacing



OPTIONS FOR BASE STATION TRANSCEIVERS

		HAND MICE	ROPHONES		DESK	TOP MICROPH	IONES	EXTERNAL	SPEAKERS
MODEL NAME	HM-36	HM-103	HM-151	HM-198	SM-50	SM-30	SM-27	SP-21	SP-23
		3	8	8			J,		質ななませつ
IC-7800	'				~	'			
IC-7700	~				~	'			
IC-7600	/				✓	/			/
IC-7410	'				✓	'		'	✓
IC-7100	(Use with OPC-589)	/	/	/	(Use with OPC-589)	(Use with OPC-589)			
IC-7200	V				V	V	'	✓	
IC-7000			/		(Use with OPC-589)	(Use with OPC-589)			
IC-718	~				~	V	/	✓	~
IC-9100	/				✓	/		/	/

	EXTERNAL	SPEAKERS	DC POWER SUPPLY	ANTENNA ELEMENT	ANTENNA	TUNERS	AUTO TUNING ANTENNA	NVIS KIT	CONTROL CABLE ADAPTER
MODEL NAME	SP-33	SP-35 2m cable	PS-126 13.8V/25A 4-pin type	AH-2b Covers 7–54MHz	AH-4 Covers 3.5-54MHz.	AT-180 Covers 1.8-54MHz.	AH-740 Covers 2.5–30MHz. (amateur band)	AH-5NV Fiberglass antenna element for use with AH-740. Covers 2.2–30MHz (amateur band) with AH-740.	OPC-2321 For use with AH-740
IC-7800	V								
IC-7700	~								
IC-7600			✓	✓	/		(Use with OPC-2321)	'	'
IC-7410			✓	✓	✓		(Use with OPC-2321)	✓	'
IC-7100		~	✓	~	~	/	(Use with OPC-2321)	'	'
IC-7200			✓	~	~	~	(Use with OPC-2321)	~	'
IC-7000		~	✓	✓	✓	~	(Use with OPC-2321)	~	'
IC-718				✓	✓	~	(Use with OPC-2321)	✓	'
IC-9100			✓	✓	✓		(Use with OPC-2321)	✓	✓

	FOLDED DIPOLE ANTENNA	FILT	ERS	HIGH STABILITY CRYSTAL UNIT	DSP UNIT	CI-V CONVERTER	LINEAR AMPLIFIER	CARRYING HANDLES	HANDLE
MODEL NAME	AH-710 Covers 1.9–30 MHz bands. 30 m; 98.4 ft	FL-430 6kHz 1st IF FILTER (For HF/ 50MHz band) FL-431 3kHz 1st IF FILTER (For HF/ 50MHz band)	FL-52A 500Hz/-6dB FL-53A 250Hz/-6dB FL-222 1.8kHz/-6dB FL-257 3.3kHz/-6dB	CR-338 Frequency sta- bility: ±0.5ppm	UT-106	СТ-17	IC-PW1	MB-23 MB-106 MB-117 MB-121 MB-123	МВ-116
IC-7800						'	✓		
IC-7700						'	~		
IC-7600						/	✓	(Use MB-121)	
IC-7410		~				'	(Use with OPC-599)	(Use MB-123)	
IC-7100						/	(Use with OPC-599)		
IC-7200	'					'	(Use with OPC-599)	(Use MB-117)	/
IC-7000						V	(Use with OPC-599)	(Use MB-106)	
IC-718	'		(Accepts only one filter)	/	(Installed depending on version)	· ·	(Use with OPC-599)	(Use MB-23)	
IC-9100		/				/	(Use with OPC-599)	(Use MB-123)	

: Applicable : Not applicable

OPTIONS FOR BASE STATION TRANSCEIVERS

	MOBILE MOUNT	ING BRACKETS	MOUNTING BASE	CONTROLLE	R BRACKETS	SEPARATIO	N CABLES	MIC ADAPTER CABLE	ADAPTER CABLE
MODEL NAME	MB-62	MB-118	MBF-1	MB-105A	MBA-1	OPC-1443 3.5m;11.5ft OPC-1444 5.0m;16.4ft	OPC-2253 3.5m;11.5ft OPC-2254 5.0m;16.4ft	8-pin connector microphone to 8-pin modular	OPC-599 13-pin ACC socket to 7-, 8-pin ACC sockets
IC-7800									
IC-7700									
IC-7600									
IC-7410									/
IC-7100	'		(Use with MBA-1)		~		/	/	/
IC-7200		~							V
IC-7000	/		(Use with MB-105A)	✓		~		/	/
IC-718		✓							✓
IC-9100									'

	DC POWER CABLES	1200MHz BAND UNIT	CLONING S	SOFTWARE	IP REMOTE CONTROL SOFTWARE	USB REMOTE ENCODER	D-STAR UNIT	DATA C	ABLES
MODEL NAME	OPC-025A 20A cable OPC-1457 30A cable	UX-9100	CS-9100 A USB cable (A-B type) is required for programming.	CS-7100	RS-BA1	RC-28 For use with RS-BA1	UT-121	OPC-1529R DATA 1 Jack to RS-232C	OPC-2218LU DATA 1 Jack to USB
IC-7800					(Possible)	V			
IC-7700					(Possible)	~			
IC-7600	(Use OPC-1457)				V	'			
IC-7410	(Use OPC-1457)				✓	~			
IC-7100	(Use OPC-1457)			'	/	/		/	✓
IC-7200	(Use OPC-1457)				✓	~			
IC-7000	(Use OPC-1457)				(Possible with CT-17)	V			
IC-718	(Use OPC-025A)								
IC-9100	(Use OPC-1457)	~	~		✓	✓	~	~	'

: Applicable : Not applicable

OPTIONS FOR MOBILE TRANSCEIVERS

		HAND MICE	ROPHONES		MOUNTING BASE	DC POWER CABLES	CONTROLLER	SEPARATION CABLES	EXTERNAL SPEAKER
MODEL NAME	HM-154	HM-154T w/DTMF keypad	HM-133/V w/DTMF keypad	HM-103	MBF-1	OPC-347 7.0m: 23ft OPC-1132A 3.0m: 9.8ft	RC-24	OPC-1663 3.4m: 11.2ft OPC-1712 10cm: 3.9in	SP-35 2m cable SP-35L 6m cable
IC-2820H	/		(Use HM-133)		~	~		~	'
ID-880H	~		(Use HM-133)	✓	~	~			<i> </i>
ID-1	/						✓		'
IC-2300H	~		(Use HM-133V)			~			'
IC-V8000	/	/	(Use HM-133)			✓			'

	MICROPHONE CABLES	MIC ADAPTER CABLE	DATA C	ABLES	CI	ONING CABL	ES	CLONING SOFTWARE	DTMF DECODER UNIT
MODEL NAME	OPC-440A 5.0m: 16.4ft OPC-647 2.5m: 8.2ft	8-pin connector microphone to 8-pin modular	OPC-1529R For data communication and PC cloning	OPC-2218LU USB cable	OPC-474 Between transceivers	OPC-478 Transceiver to PC RS-232C cable	OPC-478UC Transceiver to PC USB cable	CS-2300H CS-2820 CS-80/880*1 CS-V8000 Optional OPC-478, OPC-1529R or OPC-2218LU cable required for pro- gramming.	UT-108
IC-2820H	/	/	/	/	'	'	/	(Use CS-2820)	
ID-880H	'	✓	✓	/	/	✓	/	(Use CS-80/880)	
ID-1	/							,	
IC-2300H	'	✓			✓	'	✓	(Use CS-2300H)	
IC-V8000	'	/			/	/		(Use CS-V8000)	/

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

	DIGITAL UNIT
MODEL NAME	UT-123 With GPS receiver
IC-2820H	✓
ID-880H	
ID-1	
IC-2300H	
IC-V8000	

: Applicable

: Not applicable

OPTIONS FOR HANDHELD TRANSCEIVERS

		BATTER	Y CASES		BATTERY PACKS					
MODEL NAME	BP-216 LR6(AA)×2 cells	BP-257 LR6(AA)×2 cells	BP-263 LR6(AA)×6 cells	BP-273 LR6(AA)×3 cells	BP-217 (Li-lon) 7.4V/1500mAh(min.) 1580mAh(typ.)	BP-256 (Li-Ion) 7.4V/1620mAh(min.) 1700mAh(typ.)	BP-264 (Ni-MH) 7.2V/1400mAh	BP-265 (Li-lon) 7.4V/1900mAh(min.) 2000mAh(typ.)	BP-271 (Li-Ion) 7.4V/1150mAh(min.), 1200mAh(typ.)	
				***		•••			::	
ID-51A				/					'	
ID-31A				/					'	
IC-92AD		✓				/				
IC-80AD	~				~					
IC-T70A			/				/	/		
IC-V80			~				~	✓		

	BATTERY PACKS		DESKTOP CHARGERS									
MODEL NAME	BP-272 (Li-Ion) 7.4V/1880mAh(min.), 2000mAh(typ.)	BC-139 Rapid charger Includes AC adapter	BC-177 Rapid charger Includes AC adapter	BC-191 Rapid charger (For BP-264)	BC-192 Regular charger (For BP-264)	BC-193 Rapid charger (For BP-265)	BC-197 Rapid multi-charger	BC-202 Rapid charger	BC-1235*1 12V/1A			
	The state of the s	311					233		187			
ID-51A	V							(Use with BC-123S)	(Use with BC-202)			
ID-31A	'							(Use with BC-123S)	(Use with BC-202)			
IC-92AD			'									
IC-80AD		'										
IC-T70A				(Use with BC-123S)	(Use with BC-147S/BC-206S)	(Use with BC-123S)	(Use with BC-157S)		(Use with BC-191 or BC-193)			
IC-V80				(Use with BC-123S)	(Use with BC-147S/BC-206S)	•	(Use with BC-157S)		(Use with BC-191 or BC-193)			

	AC ADA	APTERS	WALL CHARGER	CHARGER	ADAPTERS	CIGARE	TTE LIGHTER	CABLES	DC POWER CABLES
MODEL NAME	BC-1475*2 BC-206S 12V/200mA	BC-1575*3 12V/6.6A	BC-1675*4 12V/500mA	AD-120*6 For BP-264	AD-121*6 For BP-265	CP-12L with noise filter	CP-19R with DC-DC converter	CP-23L	OPC-254L/LR
ID-51A	(Photo shows BC-147S)		<i>'</i>			·	V		·
ID-31A			~			'	'		'
IC-92AD			V			'	~	(Use with BC-177)	'
IC-80AD			~			'	'	(Use with BC-139)	✓
IC-T70A	(Use with BC-192)	(Use with BC-197)	✓ *5	(Use with BC-197)	(Use with BC-197)	✓ *5	✓ *5	(Use with BC-191 or BC-193)	✓ *5
IC-V80	(Use with BC-192)	(Use with BC-197)		(Use with BC-197)	(Use with BC-197)			(Use with BC-191 or BC-193)	

: Applicable

: Not applicable

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

^{*2} BC-147SA for USA, and SV for Australia version available. BC-206SE for Europe version available.

BC-147SA for USA, and SV for Australia version available.
 BC-157S for USA, Europe, UK and Australia versions available.
 BC-167SA for USA, SD for Europe and SV for Australia version available.
 For charging BP-264. BP-265 cannot be charged using the external DC power jack.
 Either AD-120 or AD-121 is supplied with the BC-197, depending on version.

OPTIONS FOR HANDHELD TRANSCEIVERS

	DC POWE	R CABLES			SPEA	KER-MICROPH	IONES		
MODEL NAME	OPC-515L	OPC-656 12–20V DC CABLE	HM-75LS	HM-131	HM-158LA	HM-159LA	HM-174	HM-175GPS	HM-186LS
	A B	S	3	8	9			GPS C	
ID-51A			~						~
ID-31A			~						'
IC-92AD				(Use with OPC-1797)			'	'	
IC-80AD				~					
IC-T70A	(Use with BC-191, BC-192 or BC-193)	(Use with BC-197)		/					
IC-V80	(Use with BC-191, BC-192 or BC-193)	(Use with BC-197)			~	✓			

	SPEAKER-MICROPHONES		EARPHONE-M	IICROPHONES			HEADSETS		EARPHONES
MODEL NAME	HM-189GPS	HM-153/LA	HM-153L5	HM-166	HM-166LS	HS-94 Earhook type with boom microphone	HS-95 Behind-the-head type	HS-97 Throat microphone type	SP-13
ID-51A ID-31A	-	(Use HM-153 with OPC-2144)	<i>V</i>	(Use with OPC-2144)	V			(Use with OPC-2006LS)	
IC-92AD		(Use HM-153 with OPC-2144) (Use HM-153 with OPC-1797)	•	(Use with OPC-2144) (Use with OPC-1797)		(Use with OPC-2006LS)	(Use with OPC-2006LS)	(Use with OPC-2006LS)	(Use with OPC-2144) (Use with OPC-1797)
IC-80AD	~	(Use HM-153 With OPC-1797)		(Use with OPC-1797)					(Use with OPC-1797)
IC-T70A		(Use HM-153)				(Use with OPC-2006)	(Use with OPC-2006)	(Use with OPC-2006)	
IC-V80		(Use HM-153LA)				•/	(Use with OPC-2004)	(Use with OPC-2004)	

	EARPHONES		PLUG	ADAPTER CA	BELT CLIPS				
MODEL NAME	SP-27	OPC-1797	OPC-2004	OPC-2006	OPC-2006LS	OPC-2144	MB-86 Swivel type	MB-111 Alligator type	MB-124 Alligator type
	0								
ID-51A					'	~			
ID-31A					/	~			
IC-92AD		/						/	
IC-80AD	~						~		
IC-T70A	~			/					'
IC-V80	~		~						'

: Applicable : Not applicable

OPTIONS FOR HANDHELD TRANSCEIVERS

	BELT CLIPS	CHARGER BRACKET		CARRYING CASES				CLONING	CABLES
MODEL NAME	MB-127 Alligator type	MB-130	LC-168	LC-174	LC-178	LC-179	SJ-1 For use with BP-271	OPC-474 Between transceivers	OPC-478 Transceiver to PC RS-232C cable
ID-51A	V					V	V		
ID-31A	'				✓				
IC-92AD			✓					(Use with two OPC-1797s)	
IC-80AD								~	'
IC-T70A		(Use with BC-191/192/193)		/				~	'
IC-V80		(Use with BC-191/192/193)						✓	'

	CLONING CABLES		DATA CABLES		CLONING SOFTWARE	REMOTE CONTROL SOFTWARE	ANTENNA ADAPTER	ANTENNAS	CI-V LEVEL CONVERTER
MODEL NAME	OPC-478UC Transceiver to PC USB cable	OPC-1529R Transceiver to PC RS-232C cable	OPC-1799 Transceiver to PC RS-232C cable	OPC-2218LU USB type	CS-51*1 CS-31*1 CS-80/880*1 CS-T70 CS-V80 Optional OPC-478, OPC-478UC, OPC-1529R or OPC-2218LU cable required for pro- gramming.	RS-92 OPC-1799 cable included	AD-925MA BNC type antenna connector	FA-B2E FA-S270C	CT-17
ID-51A				/	(Use CS-51)		✓	(Use FA-S270C)	'
ID-31A				'	(Use CS-31)		✓	(Use FA-S270C)	'
IC-92AD			/			/	✓	(Use FA-S270C)	
IC-80AD	'	~		~	(Use CS-80/880)		✓	(Use FA-S270C)	
IC-T70A	V				(Use CS-T70)		✓	(Use FA-S270C)	
IC-V80	~				(Use CS-V80)			(Use FA-B2E)	

^{*1} CS-51, CS-31 and CS-80/880 are available for free download from: http://www.icom.co.jp/world/support/index.html

: Applicable : Not applicable

SPECIFICATIONS FOR BASE STATION TRANSCEIVERS

		IC-7800	IC-7700	IC-7600	IC-7410	
	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, FM	
	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)	±0.05ppm (0°C to +50°C; +32°F to +122°F, after warm up)	Less than ±0.5ppm (0°C to +50°C; +32°F to +122°F)	
2	Maximum current drain	800VA	800VA	23A at 13.8V DC	23A at 13.8V DC	
General	Power supply requirement	85–265V AC (Auto sensing)	85–265V AC (Auto sensing)	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 × 2 (50Ω)	
	Number of memory channels	101 (99 regular, 2 scan edges)	101 (99 regular, 2 scan edges)	101 (99 regular, 2 scan edges)	101 (99 regular, 2 scan edges)	
	Dimensions (WxHxD; Projections are not included)	424×149×435 mm; 16.69×5.87×17.13 in	425×149×437 mm; 16.73×5.87×17.2 in	340×116×279.3 mm; 13.39×4.57×11 in	315×116×343 mm; 12.4×4.57×13.5 in	
	Weight (approx.)	25kg; 55lb	22.5kg; 49.6lb	10.0kg; 22lb	10.2kg; 22.4lb	
	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, FM: 2–100W AM: 2–27W	
Transmitter	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)	
Trans	Carrier suppression	More than 63dB	More than 63dB	More than 40dB	More than 40dB	
	Unwanted sideband	More than 80dB	More than 80dB	More than 55dB	More than 55dB	
	Microphone connector	8-pin connector (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)	
	Sensitivity (typical) Preamp ON SSB, CW, RTTY, AM: at 10dB s/N FM, WFM: at 12dB SINAD DV: at 1% BER	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 12.6μV 1.8–29.999MHz 2.0μV 50–54MHz 1.6μV FM: 28–29.7MHz 0.5μV 50–54MHz 0.32μV	
Receiver	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/–6dB FM: 12kHz/–6dB (15kHz) 20kHz/–6dB (15kHz) 20kHz/–6dB	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/-6dB (15kHz) 20kHz/-6dB	SSB: 2.4kHz/-6dB (2.4kHz) 3.4kHz/-40dB CW: 500Hz/-6dB (500Hz) 700Hz/-40dB RTTY: 500Hz/-6dB (350Hz) 800Hz/-40dB AM: 6.0kHz/-6dB (6kHz) 10kHz/-40dB FM: 12kHz/-6dB (15kHz) 22kHz/-40dB	
	Spurious and image rejection	More than 70dB	More than 70dB	More than 70dB* (* Except IF point on 50MHz band)	More than 70dB	
	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/s²)/8Ω×2 (for main and sub bands)	2-conductor 3.5 (d) mm (¹/ɛ")/8Ω	2-conductor 3.5 (d) mm (¹/s²)/8Ω	2-conductor 3.5 (d) mm (1/s")/8Ω	

SPECIFICATIONS FOR BASE STATION TRANSCEIVERS

		IC-7200	IC-7100	IC-7000	IC-718	IC-9100
		10-7200	10-7 100	— 1C-7000	10-7 10	<u> </u>
	Frequency coverage (Differs according to version)	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.	Tx: 1.8, 3.5, 5*1, 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 quaranteed.	Tx: 1.8, 3.5, 5*1, 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 quaranteed.	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*1, 7, 10, 14, 18, 21, 24, 28, 50, 144, 430 (440), 1200*MHz bands Rx: 30kHz-60MHz*², 136MHz-174MHz²², 420MHz-480MHz*², 1240MHz-1320MHz*3 *1 Depending on version. *2 Some frequency ranges are not guaranteed.
	Modes	USB, LSB, CW, RTTY, AM	USB, LSB, CW, RTTY, DV, AM, FM, WFM* (*Rx only)	USB, LSB, CW, RTTY, AM, FM, WFM* (*Rx only)	USB, LSB, CW, RTTY, AM	*3 With optional UX-9100. USB, LSB, CW, RTTY (FSK), AM*,FM, DV (with UT-121) *Transmit HF/50MHz only. Cannot receive on 1200MHz band.
	Francisco et atabilitar	±0.5ppm	±0.5ppm	±0.5ppm	Less than ±200Hz	±0.5ppm
	Frequency stability	(-10°C to +60°C; +14°F to +140°F)	(0°C to +50°C @ 430MHz)	(0°C to +50°C; +32°F to +122°F)	(From 1 min. to 60 min. after power ON)	(0°C to +50°C; +32°F to +122°F, after warm up)
eral	Maximum current drain	22A at 13.8V DC	22A at 13.8V DC	22A at 13.8V DC	20A at 13.8V DC	24A at 13.8V DC
General	Antenna connector	13.8V DC ±15% SO-239 (50Ω)	13.8V DC ±15% SO-239 × 2 (for HF/50MHz and 144/430(440)MHz bands: 50Ω)	13.8V DC ±15% $SO-239 \times 2 \text{ (for HF/50MHz and } \\ 144/430(440)\text{MHz bands: } 50\Omega)$	13.8V DC ±15% SO-239 (50Ω)	13.8V DC ±15% HF/50MHz SO-239 (50Ω)× 2 144MHz SO-239 (50Ω) 430/440MHz Type-N (50Ω) 1200MHz Type-N (50Ω)(With UX-9100)
	Number of memory channels	201 (199 regular, 2 scan edges)	495 regular, 4 call, 6 scan edges, 900 D-STAR repeater channels	503 (495 regular, 6 scan edges and 2 call)	101 (99 regular, 2 scan edges)	396* (99 for each HF/50, 144, 430/440, 1200MHz band) 4 Call* (1 for each band) 24 Scan edges* (6 for each band) 20 satellite * With optional UX-9100.
	Dimensions (W×H×D; Projections are not included)	241×84×291 mm; 9.49×3.31×11.06 in	Main unit 167x58x225 mm; 6.57x2.28x8.86 in Controller 165x64x78.5 mm; 6.5x2.52x3.09 in	167×58×180 mm; 6.57×2.28×7.09 in	240×95×239 mm; 9.45×3.74×9.41 in	315×116×343 mm; 12.4×4.57×13.5 in
	Weight (approx.)	5.5kg; 12.1lb	Main unit 2.3 kg; 5.1 lb Controller 0.5 kg; 1.1 lb	2.3kg; 5.1lb	3.8kg; 8.4lb	IC-9100: 11kg; 24.3lb UX-9100: 950g; 2.1lb
itter	Output power	SSB, CW, RTTY: 2–100W AM: 1–25W	SSB, CW, RTTY, FM, DV: 1.8–50MHz 2–100W 144MHz 2–50W 430(440)MHz 2–35W AM: 1.8–50MHz 1–30W	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	SSB, CW, RTTY: 2–100W AM: 2–35W	SSB, CW, RTTY, FM, DV*1: HF/50MHz 2–100W 144MHz 2–100W 440MHz 2–75W 1200MHz*2 1–10W AM: HF/50MHz 2–30W *1 With UT-121.*2 With UX-9100.
Transmitter	Spurious emissions	Less than –50dB (HF) Less than –63dB (50MHz)	Less than –50dB (HF) Less than –63dB (50MHz) Less than –60dB (144/430/440MHz)	Less than -50dB (HF) Less than -60dB (other bands)	Less than -50dB	1.8–29.7MHz Less than –50dB 50,144MHz Less than –63dB 430/440MHz Less than –61.8dB 1200MHz Less than –53dB (With UX-9100)
	Carrier suppression	More than 50dB	More than 50dB	More than 50dB	More than 40dB	More than 40dB
	Unwanted sideband	More than 50dB	More than 50dB	More than 50dB	More than 50dB	More than 55dB
	Sensitivity (typical) Preamp ON SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12dB SINAD DV: at 1% BER	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	8-pin modular (600Ω) 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 FM: 28-29.7MHz 0.5μV 50-54MHz 0.25μV 144/430(440)MHz 0.18μV DV: 28-29.7MHz 1μV	8-pin modular (600Ω) 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	8-pin connector (600Ω) SSB, CW, RTTY: 1.8–29.999MHz 0.16μV AM: 0.5–1.799MHz 13μV 1.8–29.999MHz 2.0μV	8-pin connector (600Ω) SSB, CW: 1.8-29.999MHz 0.16μV 50-54MHz 0.13μV 144/440MHz 0.11μV*1 200MHz 0.11μV*1 AM: 0.5-1.8MHz 12.6μV 1.8-29.999MHz 2.0μV 50-54MHz 1.6μV 144/440MHz 1.4μV FM: 28-29.7MHz 0.32μV 144/440MHz 0.18μV*1 200MHz 0.18μV*1 DV*2: 28-29.7MHz 0.18μV*1
			50–54MHz 0.63μV 144/430(440)MHz 0.35μV WFM: 76–108MHz 10μν	144/430(440)MHz 0.18μV WFM: 76–108MHz 10μV		$\begin{array}{ccc} 50-54 MHz & 0.63 \mu V \\ 144/440 MHz & 0.35 \mu V \\ 1200 MHz & 0.35 \mu V^{*1} \\ ^{*1} \mbox{With UX-9100.} ^{*2} \mbox{With UT-121.} \end{array}$
Receiver	Selectivity	SSB: 2.4kHz/–6dB (2.4kHz) 3.6kHz/–60dB CW: 500Hz/–6dB (500Hz) 900Hz/–60dB RTTY: 360Hz/–6dB (350Hz) 650Hz/–6dB AM: 6.0kHz/–6dB (6kHz) 15.0kHz/–60dB * Variable between 50Hz and 3.6kHz.	144/430(440)MHz 0.35μV	` , ,	SSB, CW, RTTY: 2.1kHz/–6dB 4.5kHz/–60dB AM: 6.0kHz/–6dB 20kHz/–40dB	144/440MHz 0.35µV 1200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.200MHz 0.200
Receiver	Selectivity Spurious and image rejection (except IF)	(2.4kHz) 3.6kHz/–60dB CW: 500Hz/–6dB (500Hz) 900Hz/–60dB RTTY: 360Hz/–6dB (350Hz) 650Hz/–6dB AM: 6.0kHz/–6dB (6kHz) 15.0kHz/–60dB	144/430(440)MHz 0.35µV WFM: 76–108MHz 10µV SSB: 2.4kHz/–6dB (2.4kHz) 3.4kHz/–40dB CW: 500Hz/–6dB (500Hz) 700Hz/–6dB (500Hz) 800Hz/–6dB (500Hz) 800Hz/–40dB AM: 6.0kHz/–6dB (6kHz) 10kHz/–40dB FM: 12kHz/–6dB (15kHz) 22kHz/–40dB DV: –50dB	SSB: 2.4kHz/-6dB (2.4kHz) 3.6kHz/-60dB CW: 500Hz/-6dB (500Hz) 900Hz/-6dB (350Hz) 650Hz/-6dB (350Hz) 650Hz/-6dB (6kHz) 15kHz/-6dB (6kHz) 15kHz/-6dB FM: 12kHz/-6dB	4.5kHz/–60dB AM: 6.0kHz/–6dB	144/440MHz 0.35µV 1200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.200MHz 0.200
Receiver	Spurious and image	(2.4kHz) 3.6kHz/–60dB CW: 500Hz/–6dB (500Hz) 900Hz/–60dB RTTY: 360Hz/–6dB (350Hz) 650Hz/–6dB AM: 6.0kHz/–6dB (6kHz) 15.0kHz/–60dB * Variable between 50Hz and 3.6kHz.	144/430(440)MHz 0.35µV WFM: 76–108MHz 10µV SSB: 2.4kHz/–6dB (2.4kHz) 3.4kHz/–40dB CW: 500Hz/–6dB (500Hz) 700Hz/–6dB (500Hz) 800Hz/–40dB AM: 6.0kHz/–6dB (6kHz) 10kHz/–4dB FM: 12kHz/–6dB (15kHz) 22kHz/–4ddB DV: –50dB (12.5kHz) More than 70dB (HF/50MHz) More than 65dB (144/430/440MHz) (except	SSB: 2.4kHz/–6dB (2.4kHz) 3.6kHz/–6dB (CW: 500Hz/–6dB (500Hz) 900Hz/–6dB (350Hz) 650Hz/–6dB (350Hz) 650Hz/–6dB (6kHz) 15kHz/–6dB (6kHz) 15kHz/–6dB (15kHz) 20kHz/–6dB	4.5kHz/-60dB AM: 6.0kHz/-6dB 20kHz/-40dB	144/440MHz 0.35µV 1200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.35µV 1.200MHz 0.200MHz 0.200

SPECIFICATIONS FOR MOBILE TRANSCEIVERS

	IC-2820H	ID-880H	ID-1	IC-2300H	IC-V8000
Frequency coverage (Differs according to version)	U.S.A. version: Tx (L/R) 144–148, 430–450MHz*1 Rx (L) 118–549.995MHz*1 (R) 118–173.995,	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	1240–1300MHz	U.S.A. version: Tx 144–148MHz Rx 136–174MHz* ⁵ EXP version: Tx/Rx 136–174MHz* ⁵	U.S.A. version: Tx 144–148MHz Rx 136–174MHz*5 CSA version: Tx/Rx 136–174MHz*5
Max.current drain	13A	VHF 11.5A UHF 12.5A	7A	11A	15A
Dimensions (W-H+xD; Proj. not included)	Main unit: 150×40×187.7 mm; 5.91×1.57×7.39 in Controller: 150×58×31.5 mm; 5.91×2.28×1.24 in	Main + Controller: 150×40×199.2 mm; 5.91×1.57×7.84 in Controller: 122×40×29.7 mm; 4.8×1.57×1.17 in	Main unit: 141×40×165.8 mm; 5.55×1.57×6.53 in Controller: 150×50×49.5 mm; 5.91×1.97×1.95 in	140×40×162 mm; 5.51×1.57×6.38 in	150×50×150 mm; 5.91×1.97×5.91 in
Weight (approx.)	Main unit: 1.5kg; 3.3lb Controller: 210g; 7.4oz (With OPC-1712)	1.3kg; 2.9lb (without microphone, cable and bracket)	Main unit: 1.2kg; 2.6lb Controller: 220g; 7.7oz	1.1kg; 2.43lb	1.09kg; 2.4lb
Output power (at 13.8V DC; Differs according to version)	High: 50W Mid: 15W (approx.) Low: 5W (approx.)	High: 50W Mid: 15W (approx.) Low: 5W (approx.)	High: 10W Low: 1W (approx.)	High: 65W Mid-Hi: 25W (approx.) Mid-Lo: 10W (approx.) Low: 5W (approx.)	High: 75W Mid-Hi: 25W (approx.) Mid-Lo: 10W (approx.) Low: 5W (approx.)
Sensitivity (FM: at 12dB SINAD DV, DD: at 1% BER Guaranteed range)	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)	DV Less than 0.35μV DD Less than 1.58μV FM Less than 0.18μV	Less than 0.18μV	0.15μV typ.
Audio output power (at 13.8V DC, 10%distortion)	More than 2.4W (8Ω load)	More than 2.0W (8Ω load)	More than 2.0W (8Ω load)	4.5W typ. (4Ω load)	More than 2.0W (8Ω load)

^{*}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. *⁵ Guaranteed range 144–148MHz.

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

⁽L) means left side receiver, (R) means right side receiver.

SPECIFICATIONS FOR HANDHELD TRANSCEIVERS

	ID-51A	ID-31A	IC-92AD	IC-80AD	IC-T70A	IC-V80
Frequency coverage (Differs according to version)	U.S.A. version: Tx 144–148,430–450MHz*1 Rx (A) 137–174, 380–479MHz*1 Broadcast 0.52-1.71, 88.0-108.0MHz EXP version: Tx 137–174, 400–479MHz*2 Rx (A) 137–174, 380–479MHz*2 Broadcast 0.52-1.71, 76.0-108.0MHz EXP-01 version: Tx 144–148, 430–440MHz*2 Rx (A) 137–174, 380–479MHz*2 Broadcast 0.52-1.71, 76.0-108.0MHz EXP-01 version: Tx 144–148, 430–440MHz*2 (B) 108–174, 380–479MHz*2 Broadcast 0.52-1.71, 76.0-108.0MHz	U.S.A. version: Tx 420–450MHz*3 Rx 400–479MHz*3 EXP version: Tx/Rx 400–479MHz*4 EXP-01 version: Tx 430–440MHz Rx 400–479MHz*4	U.S.A. version: Tx (A/B)144-148, 420-450MHz*1 Rx (A) 0.495-999.990MHz*1*5 (B) 118-174, 350-470MHz*1 EXP version: Tx (A/B)137-174, 400-470MHz*2 Rx (A) 0.495-999.990MHz*2 (B) 118-174, 350-470MHz*2	U.S.A. version: Tx 144–148, 420–450MHz* ¹ Rx 0.495–999.990MHz* ¹⁺⁵ EXP version: Tx 137–174, 400–470MHz* ² Rx 0.495–999.990MHz* ²	U.S.A. version: Tx 144–148, 420–450MHz*1 Rx 136–174, 400–479MHz*1 EXP version: Tx/Rx 136–174, 400–479MHz*2	U.S.A. version: Tx 144–148MHz Rx 136–174MHz* ⁶ EXP version: Tx/Rx 136–174MHz* ⁶
Dimensions (WxHxD; Proj. not included)	58×105.4×26.4 mm; 2.28×4.15×1.04 in	58×95×25.4 mm; 2.28×3.74×1 in	59×112×34.2 mm; 2.32×4.41×1.35 in	58.4×103×34.2 mm; 2.3×4.06×1.35 in	58×111×30 mm; 2.28×4.37×1.18 in	58×112×30 mm; 2.28×4.41×1.18 in
Weight (approx.)	255g; 8.99oz with antenna and BP-271	225g; 7.94oz with antenna and BP-271	325g; 11.5oz with antenna and BP-256	290g; 10.3oz with antenna and BP-217	380g; 13.4oz with antenna and BP-264	360g; 12.7oz with antenna and BP-264
Output power (typical values)	5W, 2.5W, 1.0W 0.5W, 0.1W at 7.4V DC	5W, 2.5W, 0.5W, 0.1W at 7.4V DC	5W, 2.5W, 0.5W, 0.1W at 7.4V DC	5W, 2.5W, 0.5W, 0.1W at 7.4V DC	5W, 2.5W, 0.5W at 7.2V DC	5W, 2.5W, 0.5W at 7.2V DC
Sensitivity (FM: at 12dB SINAD DV: at BER 1% Guaranteed range)	DV Less than 0.28μV FM Less than 0.18μV	DV Less than 0.28μV FM Less than 0.18μV	DV 0.22μV FM 0.14μV/0.16μV typ. (144/440 MHz bands)	DV 0.22μV typ. FM 0.14μV/0.16μV typ. (144/440 MHz bands)	0.18µV typ. (144/440 MHz bands)	0.14μV typ.
Audio output power (at 7.4V DC, 10%distortion)	More than 400mW (Internal SP, 16Ω load) More than 200mW (External SP, 8Ω load)	More than 400mW (Internal SP, 16Ω load) More than 200mW (External SP, 8Ω load)	More than 200mW (8Ω load)	More than 300mW (8Ω load)	More than 700mW (Internal SP, 16Ω load) More than 400mW (External SP, 8Ω load)	750mW typ. (Internal SP, 16Ω load) 450mW typ. (External SP, 8Ω load)

^{*1} Guaranteed range 144–148 and 440–450MHz. *2 Guaranteed range 144–148 and 430–440MHz. *3 Guaranteed range 440–450MHz. *4 Guaranteed range 430–440MHz. *5 Cellular blocked.

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Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the MIL-STD requirements and strict environmental standards for shock (MIL-810C, D, E and F) and vibration (MIL-810C, D, E and F).

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^{*6} Guaranteed range 144-148MHz. (A) means VFO A receiver, (B) means VFO B receiver.