



Europe Edition

HAM RADIO PRODUCTS

All Band Transceivers



Mobile Transceivers



Handheld Transceivers



Base Station Transceivers



- 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
- Spectrum waterfall display
- Audio scope function
- 200W output power and high-stability transmitter



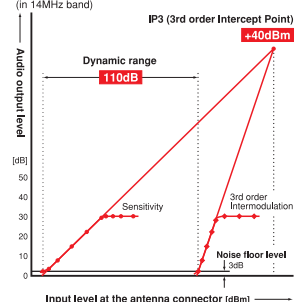
HF/50MHz TRANSCEIVER IC-7800

UPGRADE MODEL

+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 (Digital Signal Processing) system.

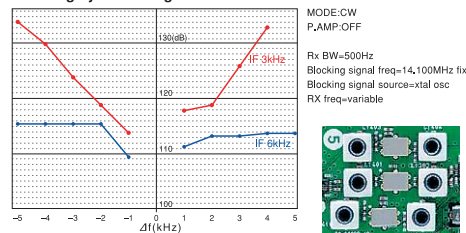
Dynamic range characteristics



ing 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.

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

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.

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

Base Station Transceivers



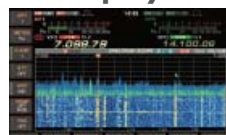
[CW mode] • DSP-controlled CW keying waveform shaping • Multi-function electronic keyer with adjustable keying speed, dot-dash ratio and paddle polarity • APF selection (soft/sharp)

[Operation] • Four independent, 32-bit DSP units and 24-bit AD/DA converters • Ultra high stability OCXO unit • 200W output power, built in • 7-inch wide color TFT LCD • 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 • 137kHz band operation

IC-7800 Upgrade Functions

Spectrum Waterfall Display

Review RF and AF characteristics on the IC-7800's impressive 7-inch color LCD. Includes a wide screen setting.



Spectrum scope with waterfall (wide screen setting)

PC Mouse Operation

Connect a mouse via USB to select operating frequency and control the spectrum scope.

Audio Scope Function

Review the FFT scope with waterfall and oscilloscope. In CW mode, observe mic compressor level and other attributes.



Audio scope (FFT scope with waterfall and oscilloscope)

Simplified Remote Control Operation

Connect directly to an IP network using Icom's optional RS-BA1 software and the IC-7800's internal base station function. (A user operation PC is still required; a base station PC is not.)

Digital Voice Recorder

Automatically capture incoming/outgoing calls onto an external memory card or flash drive.

Other New or Enhanced Functions

- Waveform outline in spectrum scope (ON/OFF)
- Voice TX function transmits the recorded audio repeatedly
- Increase APF volume level up to 6dB (Adjustable by 1dB step)
- TX delay function sets the transmission timing to control a connected external linear amplifier (OFF/10ms/15ms/20ms/25ms/30ms, each for HF and 50MHz band)
- Added RIT and ΔTX commands for CI-V remote control
- Expansion of 7MHz band (7.000–7.200MHz) for EUR version



+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)

Spectrum waterfall display

Audio scope function

200W output power and high-stability transmitter



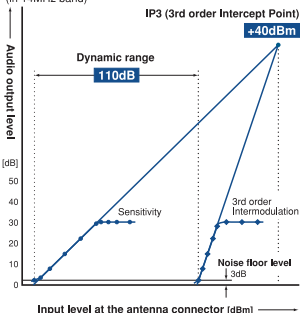
HF/50MHz TRANSCEIVER IC-7700

UPGRADE MODEL

+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 2.4kHz filter bandwidth).

Dynamic range characteristics (in 14MHz band)



DIGI-SEL unit



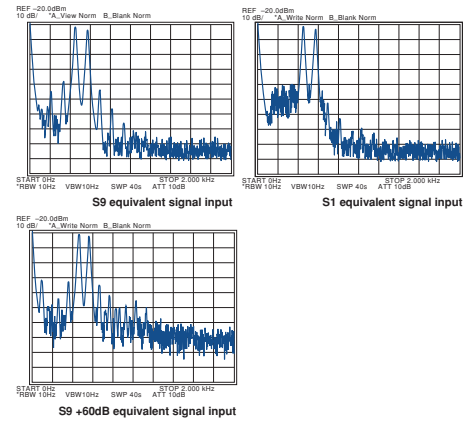
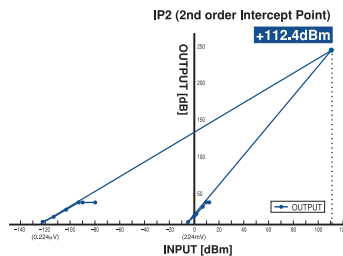
BPF unit

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.



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)

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.

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.



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.



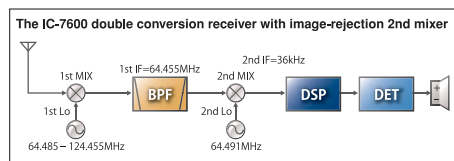
Dual DSP

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

An astonishing 104dB receiver dynamic range and +30dBm IP3 in the 14MHz band without sacrificing receiver sensitivity is a standard specification befitting 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



DIGITAL

HF/VHF/UHF ALL MODE TRANSCEIVER

IC-7100

Intuitive touch screen interface

Controls at your fingertips with an angled display

HF, 50/70/144/430MHz 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.



StraightForward 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, multi-function, "touch screen" dot-matrix LCD display that is positioned for easy viewing and operation. The controller is compact in size, making it ideal for limited vehicle or desktop space.

Resistive Touch Screen

The 48.6 x 75.9 mm; 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, key and microphone.

Controller Rear Panel View



HF, 50/70/144/430MHz Multi-band, Multi-mode

The IC-7100 fully covers the HF, 50, 70, 144, 430MHz amateur bands in multiple modes, providing 100W on HF/50MHz bands, 50W on 70/144MHz band and 35W on 430MHz 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) Function Operation

The DR function operation makes the D-STAR operation simple and straightforward, 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*
- 12kHz IF output for DRM (Digital Radio Mondiale) receive
- * D-STAR DV mode only

IP REMOTE CONTROL SOFTWARE

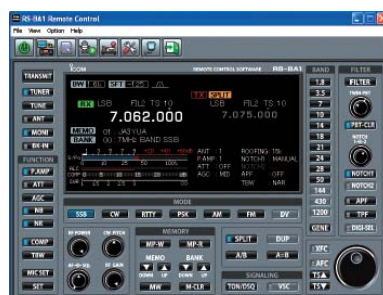
RS-BA1

Optional RS-BA1 IP Remote Control Software

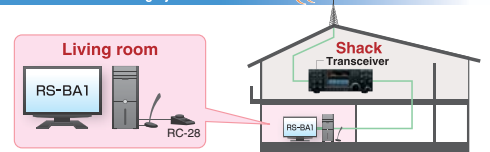
The optional RS-BA1 allows you to use the transceiver from another room using your home network, or even from a remote location over the Internet. The RS-BA1 has low voice latency.



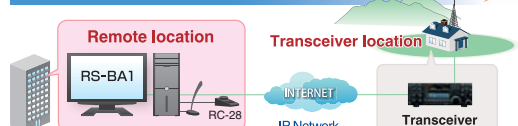
USB REMOTE ENCODER RC-28



IP Remote Control through your Home Network



IP Remote Control over the Internet



* Base station PC is required for IC-9100, 7600, 7410, 7200 or IC-7100.

Base Station Transceivers



HF/50MHz TRANSCEIVER

IC-7410

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.

Other Features

- Double-conversion superheterodyne
- +30dBm class IP3 (3rd order intercept point)
- Three first IF filters (3/6/15kHz)
- Digital twin PBT
- AGC loop management with programmable AGC time constant
- Auto/manual notch filter provide more than 70dB attenuation
- 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 Δ Tx variable up to ± 9.999 kHz
- SSB/CW synchronous tuning
- 1Hz pitch tuning and display
- ± 0.5 ppm of high frequency stability
- Program, memory, select memory, mode select and Δ f 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 protection against water intrusion*.

* IC-7200 is NOT waterproof.

Other Features

- AGC loop management
- High stability transmitter

- Digital twin PBT
- Manual notch filter
- RIT
- VOX
- ± 0.5 ppm 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



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.

Other Features

- Front mounted loud speaker
- Optional DSP capability, UT-106
- General coverage receiver
- 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/Rf meter



HF/VHF/UHF TRANSCEIVER IC-9100

DIGITAL
(With optional UT-121)

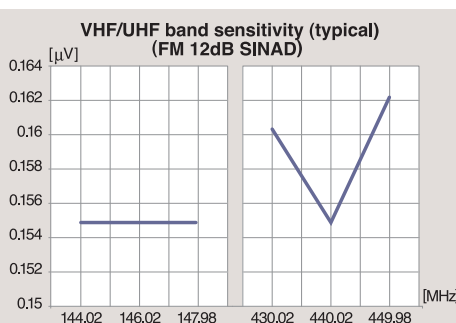
Superb readability in the
VHF/UHF band

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 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 setup.

Double Conversion Superheterodyne

The best receiver circuit reproduces high fidelity audio without internal distortion. Icom achieves this by adopting a double conversion superheterodyne 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
- 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



GPS



VHF/UHF DUAL BAND DIGITAL TRANSCEIVER

ID-5100E

Intuitive touch screen operation

DV/DV dualwatch

Integrated GPS receiver

Intuitive Touch Screen Operation

The intuitive touch screen interface provides quick and smooth operation. The large 5.5 inch display (320 x 128 pixels) responds naturally to the touch – allowing you to change settings, enter frequencies and edit memory channels with ease.



Qwerty keyboard example

DV/DV Dualwatch

The ID-5100E can receive both FM/FM and FM/DV mode signals simultaneously. Two DV mode signals can be monitored for DV/DV dualwatch (DR function) example



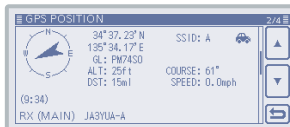
DV/DV dualwatch (DR function) example

receive on either channel. You can check other repeaters or other channel activities while waiting for the main repeater.

* Main band audio has priority if two DV signals come in at the same time.

Integrated GPS Receiver

The ID-5100E has an integrated GPS receiver in the controller and shows own position, course, speed and altitude on the display. The GPS position information can be used for exchanging position reports, tracing the GPS log and searching for nearby repeater sites.



Received position information example

DV/FM Repeater List Function

The DV/FM repeater list function assists you in accessing nearby repeaters, even in areas you are visiting for the first time. The function searches for a nearby repeater using the repeater memories with the GPS position information.

* To use the automatic repeater list function, the position data of the repeater is required. The ID-5100E will be shipped with a limited number of repeater memories preprogrammed.

Dplus Reflector Linking

Dplus reflector link commands are added to the DR function to allow easy reflector opera-

tion. Use Reflector, link/unlink to Reflector, echo test and repeater information commands are selectable.

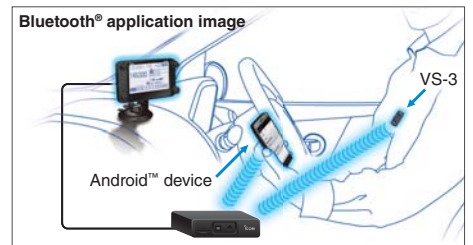
SD Card Slot for Voice and Data Storage

When used with an SD card, the SD card can store various contents including voice memory, DV auto reply message, TX voice message, QSO log, RX history log and GPS log data. Memory channels, repeater memories and other personal settings can be saved to the SD card and can be loaded to the transceiver.

VS-3 Bluetooth® Headset

The optional Bluetooth® headset, VS-3, provides hands-free communication and can remotely control the ID-5100E with three programmable buttons. This provides convenient communication in a vehicle.

* Optional UT-133 Bluetooth® unit must be installed in the ID-5100E.



Other Features

- RS-MS1A Android™ application (free download application from Google Play™)
- Enhanced D-PRS functions with object, position, items and weather formats
- Convenient memory contents management using CSV format
- Speech function announces operating frequency, mode and received callsign (DV mode)
- Independent main dial, volume and SQL knobs for A/B bands
- AM airband dualwatch
- CS-5100, cloning software supplied
- 50W output power on both VHF and UHF bands

VHF/UHF DIGITAL TRANSCEIVER

ID-E880

D-STAR DV mode capability

DR (D-STAR repeater) function for easy setup

CS-80/880 free download software



D-STAR Repeater List and DR Function Operation

The D-STAR repeater list stores up to 300 channels of repeater callsigns, frequencies, gateway callsigns, duplex direction and offset frequency with channel names of up to 8 characters. The D-STAR repeater (DR) function 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 x 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.

Lightweight & compact body

V/V, U/U, V/U dualwatch

Independent AM/FM receiver

Lightweight & Compact Body

The ID-51E has a compact 58 × 105.4 × 26.4 mm body, and weighs only 255g (approx.) with battery pack and antenna. In this slim body, the ID-51E contains 5W output power, VHF/UHF dual band, D-STAR and integrated GPS receiver.



*To use the automatic repeater list-up function, the position data of the repeater is required. The ID-51E will be shipped with D-STAR repeater memories preprogrammed, but the position data of some D-STAR repeaters may not be available.

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.

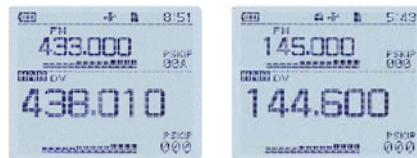


GPS receiver transparent image

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.

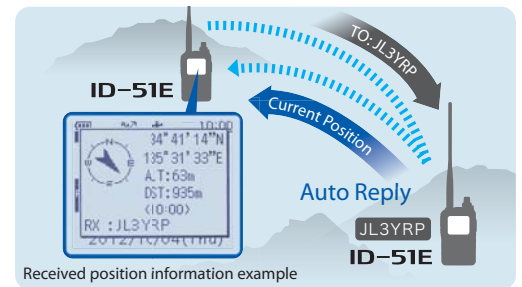


V/U, V/V Dualwatch example

Automatic Reply Function (DV Mode)

When receiving a call addressed to your callsign, the ID-51E can automatically reply your current position information*. Between ID-51E's communication, replied position information can pop up on the caller's display.

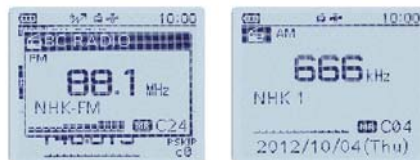
* Function not available on all D-STAR networks.



Received position information example

Independent AM/FM Receiver

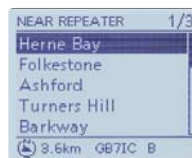
FM and AM broadcast stations can be listened to while using the dualwatch function for monitoring ham bands. When a ham band signal is received, the broadcast station is automatically muted.



FM broadcast receive AM + dualwatch receive
* Showing Japan version screen shots.

Automatic Repeater List-up Function

Using the GPS position information, the automatic repeater list-up function shows the list of nearby D-STAR repeaters from the memory* and helps you quickly access the nearby D-STAR repeater.



Repeater list example

IPX7 Waterproof Construction

The ID-51E has superior IPX7 waterproof protection (1m depth of water for 30 minutes). It can be used in harsh outdoor environments, or when hiking, mountain biking, touring and doing mountain sports.



Other Features

- 5W output power
- 3 hours rapid charging with supplied wall charger (BP-271)
- Long lasting battery pack
- CS-51 cloning software supplied



VHF/UHF DIGITAL TRANSCEIVER
ID-51E

D-STAR repeater



ID-RP2C:
Repeater controller

One unit is required for each repeater station and connects up to 4 RF modules. Transfers the received signal to the specified RF module or the Internet gateway server.



ID-RP2D:
1.2GHz DD mode RF module

The ID-RP2D is the DD mode RF module for 1.2GHz. It provides 128kbps high speed data communication.



Photo shows ID-RP2V.

ID-RP2V: 1.2GHz DV mode RF module
ID-RP2000V: 144MHz DV mode RF module
ID-RP4000V: 430MHz DV mode RF module

These are DV (digital voice) mode RF modules for the respective bands. With a combination of these RF modules, cross band operation with 144/430/1200MHz bands is available.











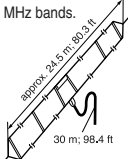






RS-RP2C:
Internet gateway software

The Internet gateway (GW) connects the D-STAR repeater station to the Internet and links multiple D-STAR repeater stations via the Internet.

OPTIONS FOR BASE STATION TRANSCEIVERS









MODEL NAME	HAND MICROPHONES				DESKTOP MICROPHONES			EXTERNAL SPEAKERS	
	HM-36	HM-103	HM-151	HM-198	SM-30	SM-50	SM-27	SP-21	SP-23
IC-7800									
IC-7800	✓				✓	✓			
IC-7700	✓				✓	✓			
IC-7600	✓				✓	✓			
IC-7410	✓				✓	✓			✓
IC-7100	(Use with OPC-589)	✓	✓	✓	(Use with OPC-589)	(Use with OPC-589)		✓	✓
IC-7200	✓				✓	✓	✓	✓	
IC-718	✓				✓	✓	✓	✓	✓
IC-9100	✓				✓	✓	✓	✓	✓







MODEL NAME	EXTERNAL SPEAKERS		DC POWER SUPPLY	ANTENNA ELEMENT	ANTENNA TUNERS		AUTOMATIC TUNING ANTENNA	NVIS KIT
	SP-33	SP-34	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) OPC-2321 is required.	AH-5NV Fiberglass antenna element for use with AH-740. Covers 2.2–30MHz (amateur band) with AH-740.
IC-7800								
IC-7800	✓	✓						
IC-7700	✓	✓						
IC-7600				✓	✓			✓
IC-7410				✓	✓		(Use with OPC-2321)	✓
IC-7100			✓	✓	✓	✓	(Use with OPC-2321)	✓
IC-7200			✓	✓	✓	✓	(Use with OPC-2321)	✓
IC-718			✓	✓	✓	✓	(Use with OPC-2321)	✓
IC-9100			✓	✓	✓	✓	(Use with OPC-2321)	✓

MODEL NAME	CONTROL CABLE	FOLDED DIPOLE ANTENNA	FILTERS			CI-V CONVERTER	HIGH STABILITY CRYSTAL UNIT	DSP UNIT	LINEAR AMPLIFIER	CARRYING HANDLES
	OPC-2321 For use with AH-740	AH-710 Covers 1.9–30 MHz bands. 	FL-430 6kHz 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	CT-17 	CR-338 Frequency sta- bility: ±0.5ppm 	UT-106 	IC-PW1EURO 	MB-23 MB-117 MB-121 MB-123 	
IC-7800					✓			✓		
IC-7700					✓			✓		
IC-7600	✓				✓			✓		
IC-7410	✓				✓			✓	(Use MB-121)	
IC-7100	✓				✓			✓	(Use MB-123)	
IC-7200	✓	✓			✓			✓	(Use MB-117)	
IC-718	✓	✓		(Accepts only one filter)	✓	✓	✓	✓	(Use MB-23)	
IC-9100	✓		✓		✓			✓	(Use MB-123)	

✓ : Applicable □ : Not applicable

OPTIONS FOR BASE STATION TRANSCEIVERS

	HANDLE	MOBILE MOUNTING BRACKETS		MOUNTING BASE	CONTROLLER BRACKET	SEPARATION CABLES	MIC ADAPTER CABLE	ADAPTER CABLE	CLONING SOFTWARE
MODEL NAME	MB-116 	MB-62 	MB-118 	MBF-1 	MBA-1 	OPC-2253 3.5m OPC-2254 5.0m 	OPC-589 8-pin connector microphone to 8-pin modular 	OPC-599 13-pin ACC socket to 7-, 8-pin ACC sockets 	CS-9100 A USB cable (A-B type) is required for programming.
IC-7800									
IC-7700									
IC-7600									
IC-7410									
IC-7100		✓		(Use with MBA-1)	✓	✓	✓	✓	
IC-7200	✓		✓					✓	
IC-718			✓					✓	
IC-9100								✓	✓


	CLONING SOFTWARE	IP REMOTE CONTROL SOFTWARE	USB REMOTE ENCODER	D-STAR UNIT	DATA CABLES		DC POWER CABLES	1200MHz BAND UNIT
MODEL NAME	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 	OPC-025A 20A cable OPC-1457 30A cable OPC-2095 30A cable	UX-9100 
IC-7800		✓	✓					
IC-7700		✓	✓					
IC-7600		✓	✓				(Use OPC-1457)	
IC-7410		✓	✓				(Use OPC-2095)	
IC-7100	✓	✓	✓		✓	✓	(Use OPC-2095)	
IC-7200		✓	✓				(Use OPC-1457)	
IC-718			✓				(Use OPC-025A)	
IC-9100		✓	✓	✓	✓	✓	(Use OPC-2095)	✓

: Applicable : Not applicable

OPTIONS FOR MOBILE TRANSCEIVERS

	HAND MICROPHONES				BLUETOOTH® HEADSET	BLUETOOTH® UNIT	MOUNTING BASE	CONTROLLER BRACKET	MOUNTING BRACKET
MODEL NAME	HM-207	HM-154	HM-133 w/DTMF keypad	HM-103	VS-3	UT-133	MBF-1	MBA-2	MBF-4
ID-5100E	✓	✓	✓	✓	✓ (Use with UT-133)	✓	✓ (Use with MBA-2)	✓	✓
ID-E880		✓	✓	✓			✓		✓

	CONTROLLER CABLE	EXTERNAL SPEAKERS		MICROPHONE CABLES	MIC ADAPTER CABLE	DATA CABLES		CLONING CABLES	
MODEL NAME	OPC-1156 3.5m extension cable	SP-35 2m cable SP-35L 6m cable	SP-30 102.5mm diameter speaker	OPC-440A 5.0m OPC-647 2.5m	OPC-589 8-pin connector microphone to 8-pin modular	OPC-1529R For data com- munication and PC cloning	OPC-2218LU USB cable	OPC-474 Between transceivers	OPC-478 Transceiver to PC RS-232C cable
ID-5100E	✓	✓	✓	✓	✓	✓	✓	✓	✓
ID-E880		✓		✓	✓	✓	✓	✓	✓

	CLONING CABLES	DC POWER CABLES	CLONING SOFTWARE	APPLICATION FOR Android™
MODEL NAME	OPC-478UC Transceiver to PC USB cable	OPC-347 7.0m OPC-1132A 3.0m	CS-5100*1 CS-80/880*1 Optional OPC-478, OPC-478UC, OPC-1529R or OPC-2218LU cable required for pro- gramming.	RS-MS1A  Free download software. Download from Google Play™.
ID-5100E	✓	✓	✓ (Use CS-5100)	✓
ID-E880	✓	✓	✓ (Use CS-80/880)	

*1 CS-5100 and CS-80/880 are available for free download from:
<http://www.icom.co.jp/world/support/index.html>

: Applicable : Not applicable

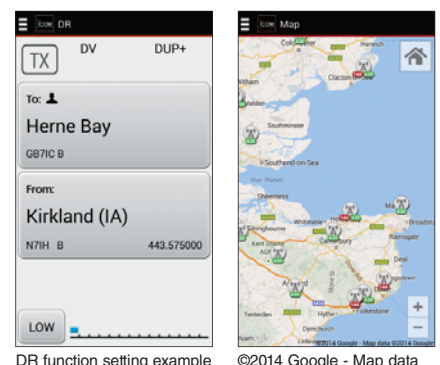
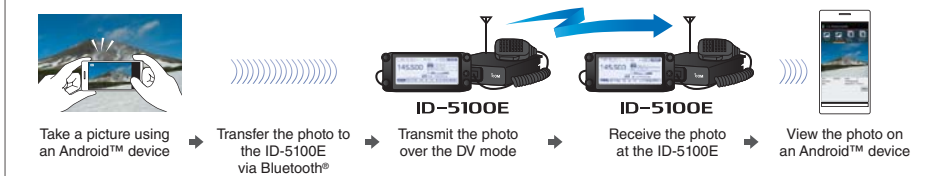
RS-MS1A Android™ Application (Free download application from Google Play™)

The RS-MS1A allows you wirelessly connect the ID-5100E and remotely set DR functions, link with a map application and send/receive messages over the DV mode. In addition, pictures taken by the Android™ device can be transmitted over the DV mode.






* Optional UT-133 Bluetooth® unit must be installed in the ID-5100E.

* Some functions may not work properly, depending on Android™ phones and devices used.

Steps to send a picture over the DV mode




OPTIONS FOR HANDHELD TRANSCEIVERS

	BATTERY CASE	BATTERY PACKS		DESKTOP CHARGER	AC ADAPTER	WALL CHARGER	CIGARETTE LIGHTER CABLES		DC POWER CABLE
MODEL NAME	BP-273 LR6 (AA)×3 cells	BP-271 (Li-ion) 7.4V/1150mAh(min.), 1200mAh(typ.)	BP-272 (Li-ion) 7.4V/1880mAh(min.), 2000mAh(typ.)	BC-202 Rapid charger	BC-123SE 12V/1A	BC-167SD 12V/500mA	CP-12L with noise filter	CP-19R with noise filter	OPC-254L/LR
									
ID-51E	✓	✓	✓	✓ (Use with BC-123SE)	✓ (Use with BC-202)	✓	✓	✓	✓

	SPEAKER-MICROPHONES		EARPHONE-MICROPHONES				HEADSETS		
MODEL NAME	HM-75LS	HM-186LS	HM-153	HM-153LS	HM-166	HM-166LS	HS-94 Earhook type with boom microphone	HS-95 Behind-the-head type	HS-97 Throat microphone type
									
ID-51E	✓	✓	✓ (Use with OPC-2144)	✓	✓ (Use with OPC-2144)	✓	✓ (Use with OPC-2006LS)	✓ (Use with OPC-2006LS)	✓ (Use with OPC-2006LS)

	EARPHONE	PLUG ADAPTERS		BELT CLIP	CARRYING CASE	SILICONE JACKET CASE	DATA CABLE	CLONING SOFTWARES	ANTENNA ADAPTER
MODEL NAME	SP-13	OPC-2006LS	OPC-2144	MB-127 Alligator type	LC-179	SJ-1 For use with BP-271	OPC-2218LU USB type	CS-51 **	AD-92SMA BNC type antenna connector
									
ID-51E	✓ (Use with OPC-2144)	✓	✓	✓	✓	✓	✓	✓	✓

** CS-51 is available for free download from: <http://www.icom.co.jp/world/support/index.html>

	ANTENNA	CI-V LEVEL CONVERTER
MODEL NAME	FA-S270C	CT-17
		
ID-51E	✓	✓

✓ : Applicable □ : Not applicable

SPECIFICATIONS FOR BASE STATION TRANSCEIVERS

	IC-7800	IC-7700	IC-7600	
General	Frequency coverage <small>(Differs according to version)</small>	Tx: 137kHz, 1.8, 3.5, 7, 10, 14 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60MHz* * Some frequency ranges are not guaranteed.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60MHz* * Some frequency ranges are not guaranteed.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60MHz* * 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
	Frequency stability	±0.05ppm (0°C to +50°C, after warm up)	±0.05ppm (0°C to +50°C, after warm up)	±0.5ppm (0°C to +50°C, after warm up)
	Maximum current drain	800VA	800VA	23A at 13.8V DC
	Power supply requirement	85–265V AC (Auto sensing)	85–265V AC (Auto sensing)	13.8V DC ±15%
	Antenna connector	SO-239 × 4 + BNC × 2 (50Ω)	SO-239 × 4 + BNC (50Ω)	SO-239 × 2 + phono [(RCA) 50Ω]
	Number of memory channels	101 (99 regular, 2 scan edges)	101 (99 regular, 2 scan edges)	101 (99 regular, 2 scan edges)
	Dimensions <small>(W×H×D; Projections are not included)</small>	424×149×435 mm	425×149×437 mm	340×116×279.3 mm
Weight (approx.)	25kg	22.5kg	10.0kg	
Transmitter	Output power	SSB, CW, RTTY, PSK31, FM: 5–200W AM: 5–50W 137kHz (CW): More than –20dBm	SSB, CW, RTTY, PSK31, FM: 5–200W AM: 5–50W	SSB, CW, RTTY, PSK31, FM: 2–100W AM: 1–30W
	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)
	Carrier suppression	More than 63dB	More than 63dB	More than 40dB
	Unwanted sideband	More than 80dB	More than 80dB	More than 55dB
	Microphone connector	8-pin connector (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)
Receiver	Sensitivity (typical) <small>Preamp ON SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12dB SINAD</small>	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
	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	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	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
	Spurious and image rejection <small>(except IF)</small>	More than 70dB	More than 70dB	More than 70dB* (* Except IF point on 50MHz band)
	Audio output power <small>(at 10% distortion with an 8Ω load)</small>	More than 2.6W	More than 2.6W	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

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 BASE STATION TRANSCEIVERS

	IC-7410	IC-7100	IC-7200	IC-718	IC-9100
	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60.000MHz* * Some frequency bands are not guaranteed.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50, 70* ¹ , 144, 430MHz bands Rx: 30kHz–199.999MHz, 400–470MHz* ² * ¹ Depending on version. * ² Some frequency ranges are not guaranteed.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60.000MHz* * Some frequency ranges are not guaranteed.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28MHz bands Rx: 30kHz–29.999MHz* * Guaranteed range 0.5–29.999MHz.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50, 144, 430, 1200MHz bands Rx: 30kHz–60MHz* ¹ , 144–146MHz, 430–440MHz, 1240–1300MHz* ² * ¹ Some frequency ranges are not guaranteed. * ² With optional UX-9100.
	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, RTTY, DV, AM, FM, WFM* (*Rx only)	USB, LSB, CW, RTTY, AM	USB, LSB, CW, RTTY, AM	USB, LSB, CW, RTTY (FSK), AM*, FM, DV (with UT-121) * Transmit HF/50MHz only. Cannot receive on 1200MHz band.
	Less than ±0.5ppm (0°C to +50°C)	±0.5ppm (0°C to +50°C @ 430MHz)	±0.5ppm (–10°C to +60°C)	Less than ±200Hz (From 1 min. to 60 min. after power ON)	±0.5ppm (0°C to +50°C, after warm up)
	23A at 13.8V DC	22A at 13.8V DC	22A at 13.8V DC	20A at 13.8V DC	24A at 13.8V DC
	13.8V DC ±15%	13.8V DC ±15%	13.8V DC ±15%	13.8V DC ±15%	13.8V DC ±15%
	SO-239 × 2 (50Ω)	SO-239 × 2 (for HF/50/70MHz and 144/430MHz bands: 50Ω)	SO-239 (50Ω)	SO-239 (50Ω)	HF/50MHz SO-239 (50Ω) × 2 144MHz SO-239 (50Ω) 430MHz Type-N (50Ω) 1200MHz Type-N (50Ω) (With UX-9100)
	101 (99 regular, 2 scan edges)	495 regular, 4 call, 6 scan edges, 900 D-STAR repeater channels	201 (199 regular, 2 scan edges)	101 (99 regular, 2 scan edges)	396* (99 each for HF/50, 144, 430, 1200MHz band) 4 Call* (1 each for band) 24 Scan edges* (6 each for band) 20 satellite * With optional UX-9100.
	315×116×343 mm	Main unit 167×58×225 mm Controller 165×64×78.5 mm	241×84×281 mm	240×95×239 mm	315×116×343 mm
	10.2kg	Main unit 2.3kg Controller 0.5kg	5.5kg	3.8kg	IC-9100 11kg UX-9100 950g
	SSB, CW, RTTY, FM: 2–100W AM: 2–27W	SSB, CW, RTTY, FM, DV: 1.8–50MHz 2–100W 70MHz 2–50W 144MHz 2–50W 430MHz 2–35W AM: 1.8–50MHz 1–30W 70MHz 1.6–20W	SSB, CW, RTTY: 2–100W AM: 1–25W	SSB, CW, RTTY: 2–100W AM: 2–35W	SSB, CW, RTTY, FM, DV* ¹ : HF/50MHz 2–100W 144MHz 2–100W 430MHz 2–75W 1200MHz* ² 1–10W AM: HF/50MHz 2–30W * ¹ With UT-121. * ² With UX-9100.
	Less than –50dB (HF) Less than –63dB (50MHz)	Less than –50dB (HF) Less than –63dB (50MHz) Less than –60dB (70/144/430MHz)	Less than –50dB (HF) Less than –63dB (50MHz)	Less than –50dB	1.8–29.7MHz Less than –50dB 50,144MHz Less than –63dB 430MHz Less than –61.8dB 1200MHz Less than –53dB (With UX-9100)
	More than 40dB	More than 50dB	More than 50dB	More than 40dB	More than 40dB
	More than 55dB	More than 50dB	More than 50dB	More than 50dB	More than 55dB
	8-pin connector (600Ω)	8-pin modular (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)
	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	SSB, CW: 1.8–29.999MHz 0.15μV 50–54MHz 0.12μV 70MHz 0.15μV AM: 0.5–1.8MHz 13μV 1.8–29.999MHz 2.0μV 50/70/144/430MHz 1.0μV FM: 28–29.7MHz 0.5μV 50/70MHz 0.25μV 144/430MHz 0.18μV DV: 28–29.7MHz 1.0μV 50/70MHz 0.63μV 144/430MHz 0.35μV WFM: 76–108MHz 10μV	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	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 0.16μV 50–54MHz 0.13μV 144/430MHz 0.11μV 1200MHz 0.11μV* ¹ AM: 0.5–1.8MHz 12.6μV 1.8–29.999MHz 2.0μV 50–54MHz 1.6μV 144/430MHz 1.4μV FM: 28–29.7MHz 0.5μV 50–54MHz 0.32μV 144/430MHz 0.18μV 1200MHz 0.18μV* ¹ DV* ² : 28–29.7MHz 1.0μV 50–54MHz 0.63μV 144/430MHz 0.35μV 1200MHz 0.35μV* ¹ * ¹ With UX-9100. * ² With UT-121.
	SSB: 2.4kHz/–6dB (2.4kHz) CW: 500Hz/–6dB (500Hz) RTTY: 500Hz/–6dB (350Hz) AM: 6.0kHz/–6dB (6kHz) FM: 12kHz/–6dB (15kHz)	SSB: 2.4kHz/–6dB (2.4kHz) 3.4kHz/–40dB CW: 500Hz/–6dB (500Hz) 700Hz/–40dB RTTY: 500Hz/–6dB (500Hz) 800Hz/–40dB AM: 6.0kHz/–6dB (6kHz) 10kHz/–40dB FM: 12kHz/–6dB (15kHz) 22kHz/–40dB DV: –50dB (12.5kHz)	SSB: 2.4kHz/–6dB (2.4kHz) CW: 3.6kHz/–60dB (500Hz) 500Hz/–6dB (500Hz) RTTY: 360Hz/–6dB (350Hz) AM: 6.0kHz/–6dB (6kHz) 15kHz/–60dB	SSB, CW, RTTY: 2.1kHz/–6dB 4.5kHz/–60dB AM: 6.0kHz/–6dB 20kHz/–40dB	SSB: 2.4kHz/–6dB (2.4kHz) 3.4kHz/–40dB CW: 500Hz/–6dB (500Hz) 700Hz/–40dB RTTY: 500Hz/–6dB (500Hz) 800Hz/–40dB AM: 6.0kHz/–6dB (6kHz) 10.0kHz/–40dB FM: 12kHz/–6dB (15kHz) 22kHz/–40dB DV (With UT-121) : –50dB (12.5kHz spacing) 1200MHz (With UX-9100) SSB, CW 2.3kHz/–6dB FM 15.0kHz/–6dB
	More than 70dB	More than 70dB (HF/50/70MHz) More than 65dB (144/430MHz) (expect 1/2 IF through on 50/70MHz, IF through on 144MHz)	More than 70dB* (* Except 1/2 IF point on 50MHz band)	More than 70dB (1.8–29.999MHz)	HF/50MHz More than 70dB 144,430MHz More than 60dB 1200MHz More than 50dB (With UX-9100)
	More than 2.0W	More than 2.0W	More than 2.0W	More than 2.0W	More than 2.0W
	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-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω × 2 (for main and sub bands)

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

SPECIFICATIONS FOR MOBILE & HANDHELD TRANSCEIVERS

	ID-5100E	ID-E880	ID-51E
Frequency coverage (Differs according to version)	Europe version Tx 144–146, 430–440MHz Rx 118–174, 375–550MHz* ¹ Italia version Tx 144–146, 430–434, 435–438MHz Rx 118–136.9916, 144–146, 430–434, 435–438MHz* ²	Europe version Tx 144–146, 430–440MHz Rx 118–173.995, 230–549.995, 810–999.990MHz* ¹ Italia version Tx 144–146, 430–434, 435–438MHz Rx 118–173.995, 230–549.995, 810–999.990MHz* ²	Europe version Tx 144–146, 430–440MHz Rx (A/B) 144–146, 430–440MHz (BC) 0.52–1.71, 76.0–108.0MHz UK version Tx 144–146, 430–440MHz Rx (A) 137–174, 380–479MHz* ¹ (B) 108–174, 380–479MHz* ¹ (BC) 0.52–1.71, 76.0–108.0MHz
Mode	DV, FM, FM-N, AM AM (receive only), AM-N (receive only)	FM, FM-N, DV, AM (receive only)	FM, FM-N, DV AM (receive only), WFM (receive only)
Max. current drain	VHF/UHF 13A	VHF 11.5A UHF 12.5A	2.5A
Dimensions (W×H×D; Projections are not included)	Main unit:150×40×172.6 mm Controller:182.2×81.5×24.7 mm	Main + Controller:150×40×199.2 mm Controller:122×40×29.7 mm	58×105.4×26.4 mm
Weight (approx.)	Main unit:1.3kg Controller: 260g	1.3kg (without microphone, cable and bracket)	255g with antenna and BP-271
Output power (typical values)	High: 50W Mid: 15W Low: 5W (at 13.8V DC)	High: 50W Mid: 15W (approx.) Low: 5W (approx.) (at 13.8V DC)	High: 5W Mid: 2.5W Low2: 1.0W Low1: 0.5W S-Low: 0.1W (at 7.4V DC)
Sensitivity (FM: at 12dB SINAD DV, DD: at BER 1%)	DV Less than 0.28µV FM/FM-N Less than 0.18µV (144, 430 MHz bands)	DV Less than 0.35µV FM Less than 0.18µV (144, 430 MHz bands)	DV Less than 0.28µV FM, FM-N Less than 0.18µV
Audio output power (at 10% distortion)	2.0W (at 8Ω)	2.0W (at 8Ω)	400mW (Internal SP, 16Ω) 200mW (External SP, 8Ω)

*¹ Guaranteed range 144–146 and 430–440MHz. *² Guaranteed range 144–146, 430–440 and 435–438MHz.
(A) means VFO A receiver, (B) means VFO B receiver, (BC) means broadcast radio.

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



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).



This logo indicates that model is a digital capable transceiver compatible with the D-STAR DD or DV mode in this brochure.



This logo indicates that model has superior waterproof protection against water intrusion. (1m depth underwater for 30 minutes.)

50th Anniversary

1964 ~ 2014

Hungry for a new challenge

At the end of 1964, when the Tokyo Olympic boom was continuing in Japan, Icom launched its very first amateur radio product to the market. In 2014, Icom is proud to celebrate its 50th year golden anniversary. With technology that stays one step ahead, Icom makes the world's communication necessities a reality and will challenge the needs of the future from its position as a true high technology organization.



FDAM-1 (1964) FDAM-3 (1968) IC-71 (1969)



IC-200 (1972) IC-502, IC-202S, IC-402 (1975) IC-211 (1976)



IC-2E (1980) IC-505 (1982) IC-781 (1988)



IC-706 (1995) IC-756PRO (1999) IC-7100 (2013)



ID-51E (2013) IC-7800 upgrade model (2013) ID-5100E (2014)

ICOM History

1954 Mr. Tokuzo Inoue founded Inoue Electric Seisakusho in Kyoto, Japan.

1964 Inoue Electric Seisakusho Co. Ltd. established with Mr. Tokuzo Inoue as President.

First amateur radio product released.

1970 Headquarters office completed in Hirano, Osaka.



Headquarters office

1971 Company logo created.



1973 Company logo changed.



1976 Icom (Europe) GmbH, established in Dusseldorf, Germany.

1978 Name changed to Icom Incorporated.

1979 Icom America Inc. established in Bellevue, Washington, U.S.A.

1982 Icom (Australia) Pty., Ltd. established in Melbourne, Australia.

1986 Hirano manufacturing plant completed.

1987 Company logo mark changed.



1988 Wakayama Icom Inc. (Arida Plant) established in Wakayama, Japan.



Icom (Europe) GmbH
(Current office in Bad Soden)



Wakayama Icom Inc.(Arida Plant)

1990 Icom stock listed on Osaka Stock Exchange.

1994 Narayama Research and Development office completed.

1997 Icom Spain, S.L. established in Barcelona, Spain.



Icom Spain, S.L.

1998 ISO 9001 certification acquired.

1999 Icom Information Products Inc. established in Osaka, Japan.

2000 New Icom headquarters building completed.



Current headquarters office

2001 Icom stock listed on Tokyo Stock Exchange.

Icom stock listed on the 1st Section of the Tokyo & Osaka Stock Exchanges.

2003 ISO 14001 certification acquired.

2009 Kinokawa Plant of Wakayama Icom Inc. completed in Wakayama, Japan.



Kinokawa Plant of Wakayama Icom Inc

2010 ISO 27001 certification acquired.

2012 Icom Brazil established in Belo Horizonte MG, Brazil.

Tokyo showroom opened.

2014 50th anniversary. Making a leap forward for another 50 years.

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