



ICOM

2007 Edition

HAM RADIO PRODUCTS

HF Transceivers



Mobile Transceivers



Handheld Transceivers



All Mode Transceivers

Icom Inc.

Icom's flagship model

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

3kHz roofing filter (Total 3 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 highly stable transmitter



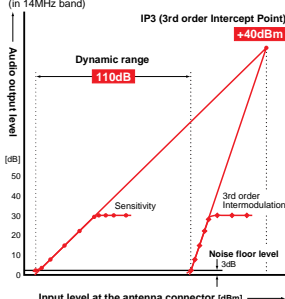
HF/50MHz TRANSCEIVER

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 – a first in ham radio! To achieve this superior receiver performance, Icom's engineering team completely re-engineered all of the analog circuitry to match the DSP system.

Dynamic range characteristics (in 14MHz band)



BPF unit



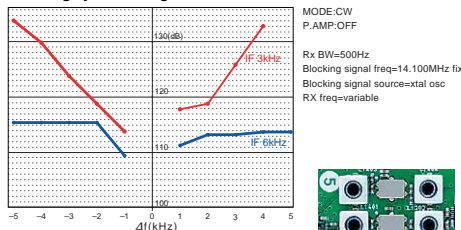
DIGI-SEL unit

3kHz roofing filter

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

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

Blocking dynamic range characteristics



Three roofing filters

Two completely independent receiver circuits

The dual receiver allows you to receive two different bands simultaneously in different modes, without either receiver affecting the 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 respond to operator changes in an instant, as each DSP unit has a dedicated function. While there is one for each receiver, 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 last used filter settings for each operating mode.



Filter preset screen

Ultra high stability OCXO unit

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



200W output power

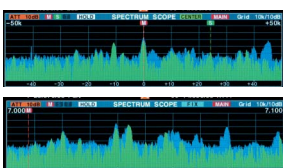
The newly designed power amplifiers uses push-pull power MOS-FETs with a 48V DC. They provide a powerful 200W output power at full duty cycle. An effective cooling system maintains internal temperatures within a safe range and prevents thermal run-away.



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 sets. There are 7 steps display ranges from $\pm 2.5\text{kHz}$ to $\pm 250\text{kHz}$. This is up to 500kHz of spectrum!



Example of spectrum scope centered on the receiving frequency.

Example of fixed spectrum scope range.

7-inch wide color TFT LCD

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

Other outstanding features

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

- 16-step noise reduction

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

[Operation] • High quality digital voice memory • Triple band stacking register • Built-in RTTY and PSK31 modulator and demodulator • Message memory for CW, RTTY and PSK31 operations • Twin peak audio filter for RTTY operation • CF memory card for storing customized personal settings • 101 memory channels • AGC volume knob 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 ALL MODE TRANSCEIVER IC-756PROIII

+30dBm IP3

Two newly designed
preamplifiers

Real-time spectrum scope
with mini-scope function

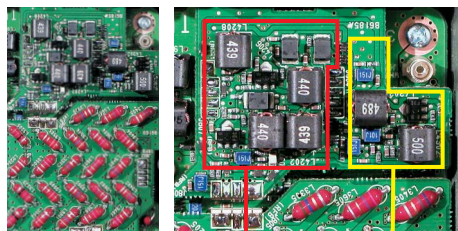
+30dBm IP3*

Using receiver design techniques introduced in the IC-7800, Icom's engineering team focused on delivering distortion-free, high-dynamic-range. To achieve this goal, Icom used higher-grade components in vital receiver sections of the IC-756PROIII.

* Measurement conditions: 14.2MHz receive frequency, input frequencies 14.3MHz and 14.4MHz, Pre-amp OFF, mode USB BW: 2.4kHz

Two newly designed preamplifiers

To minimize distortion and maximize dynamic range, the IC-756PROIII preamplifiers use the same basic circuit design as the IC-7800 preamplifiers. Preamp-1 is a noiseless feedback design, with push-pull amplifiers. Preamp-2 uses bipolar transistors for higher gain. It is ideal for using separate low-efficiency receiving antennas such as small loops or Beverages.



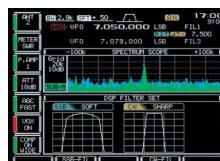
RF stage & preamplifiers

Preamp-1

Preamp-2

Real-time spectrum scope with mini-scope function

The real-time spectrum scope is now an indispensable tool for top performing HF radios. The IC-756PROIII's spectrum scope adds a mini-scope function. The mini-scope allows you to monitor the scope screen while you use other function menus. For example, you can monitor the scope screen even while you are changing the IF filter shape and passband width.



Mini-scope screen

Adjustable SSB transmit BW

With the flexible DSP-based waveform shaping, you can tailor your transmit audio quality to suit your operating style. The SSB transmit bandwidth is selectable from 100, 300 and 500Hz on the low end, and 2500, 2700 and 2900Hz on the high end respectively. 3 sets of high and low combinations can be stored in memory.

32-bit floating point DSP & 24-bit AD/DA converters

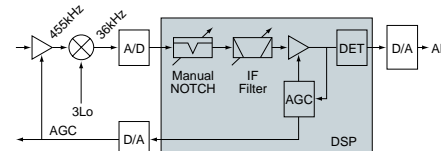
The heart of the IC-756PROIII is the proven combination of the 32-bit floating point DSP and 24-bit AD/DA converters. This powerful combination supports the many digital processing features of the IC-756PROIII.

Sharp and soft filter shapes

Select an appropriate filter shape, depending on your operating style or band conditions. Independent SSB and CW filters give you the flexibility you want while listening to the signal.

AGC loop management

The digital IF filter, manual notch filter etc. are adopted in the AGC loop, and controlled by the DSP. This system removes blocking by extremely strong adjacent signals outside of filter passbands. Even very weak signals between crowded strong signals can be clearly extracted from the noise.



Eight-channel RTTY TX memory

The built-in RTTY demodulator and decoder allow you to check the callsign of the station on the air instantly. The IC-756PROIII has 8 channels of RTTY transmit memory. You can edit and send up to a 62 character message for each memory channel without a PC or other external unit.

Other features

[Antenna and receiver] • Built-in auto antenna tuner • 2 TX/RX antenna connectors and RX antenna connector • 30kHz–60MHz general coverage* (* Some frequency ranges are not guaranteed) • Built-in RX attenuator (6/12/18dB) • Twin peak audio filter • Dual watch • Digital twin PBT • Manual notch • Auto notch filter

[Transmitter] • Tx monitor function • Tone encoder • VOX operation • All mode power control • External control for voice memory and memory keyer

[CW mode] • CW Wave form controlled by the DSP • CW reverse • Multi-function electronic keyer includes adjustable keying speed and dot/dash ratio, polarity, bug keyer operation • Continuously adjustable CW pitch control from 300–900Hz • Double key jacks (Front and rear) • Full break-in (QSK)

[Operation] • 2 clocks show local and UTC time • Screen saver • Set mode menu for speedy setting • Analog and digital meter indicates relative output power, SWR, ALC level and compression level • Memory pad stores up to 5 or 10 operating frequencies and modes • Quick split function • RF gain and squelch control • ± 9.999 kHz Adjustable RIT and Δ TX • 1Hz step tuning and display • 101 memory channels with 10-character channel name • Optional voice synthesizer announces the operating frequency, mode and signal strength in English • Program, memory, select memory, Δ f scans • Auto tuning step function • Dial lock



IC-746PRO

HF/50MHz/144MHz ALL MODE TRANSCEIVERS

IC-746PRO • IC-7400

32-bit DSP with
24-bit AD/DA converter

51 types of passband width, soft and sharp filter shapes

100W output on all HF, 50MHz and 144MHz bands

32-bit DSP technology

The IC-746PRO/7400 covers the HF, 50MHz and 144MHz bands with full IF DSP capability. The combination of the 32-bit DSP and 24-bit AD/DA converter is comparable to the IC-756PROIII, providing flexible signal enhancement, superior interference reduction and other advanced digital features on all bands. Clear signals without distortion are received under any conditions.

IF filter shapes

You will never have to purchase optional filters, with over 51 different filter widths, just dial in the width you want. Then select whether you want a sharp or soft filter shape for SSB and CW modes.

RTTY demodulator and decoder

The built-in RTTY demodulator and decoder reads Baudot RTTY signals on the screen without turning on your PC or other gear. The RTTY tuning indicator helps critical tuning. The Twin Peak filter removes interfering QRM giving you a more accurate decoded message.



RTTY decode screen

Other features

- Large, multi-function LCD
- DSP controlled AGC loop
- Built-in automatic antenna tuner
- 108 DTCS and 50 CTCSS codes standard
- 4-channel memory keyer with 50 characters
- Memo-pad
- FM narrow capability
- Triple band stacking register
- Quick split
- VSC function
- Digital twin PBT
- Optional voice synthesizer



HF ALL BAND 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.

Front mounted loud speaker

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

Optional DSP capability, UT-106

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



Optional UT-106

General coverage receiver

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

*Guaranteed range: 0.5–29.999999 MHz

Other features

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



2-point MNF (Manual notch filter)

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

2.5 inch color TFT display

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

* 3.5(d) mm monaural cable is required.

Other outstanding features

- 35W output on 70cm band
- ± 0.5 ppm high stability crystal unit
- 8 direct access buttons for user-friendly operation
- Digital voice recorder for transmit and receive
- Built-in RTTY demodulator
- Remote control microphone, HM-151
- Fixed mode and center mode band scope
- Multi-function meter and SWR graphic displays
- Front panel separation with optional separation cable
- Built-in voice synthesizer

HF/VHF/UHF ALL MODE TRANSCEIVER

IC-7000

IF DSP — First in Class

2-point Manual Notch Filter
more than 70dB attenuation

2.5 inch color TFT display

IF DSP — first in this 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.



DSP features with UT-106

DSP capabilities are available* including noise reduction and auto notch functions. Superior receive quality in your shack, vehicle or during DX peditions.

* UT-106 DSP unit required for some versions.

Compact with detachable panel

With an optional separation cable, OPC-581/OPC-587, the detachable front panel allows easy installation in your shack or in a wide variety of mobile applications.

High stability transmitter

MOS-FET power amplifiers in the PA unit provide stable, high quality output with low IMD and low spurious emissions even during full duty cycle and extended operation.

Other features

- Up to 3 selectable passband widths with optional filters
- Built-in tone squelch functions
- Simple band scope function
- Automatic repeater function
- Built-in electronic keyer
- IF shift interference rejection
- Continuously adjustable RF output
- Adjustable SSB carrier point
- Narrow FM capability
- Optional automatic antenna tuner

HF/VHF/UHF ALL MODE TRANSCEIVER

IC-706MKIIG

Covers all HF, 6m, 2m and
70cm bands

Clean, stable and
powerful output power

Built-in DSP capability
(Optional depending on version)

HF to 70cm band coverage with 100W* output

The IC-706MKIIG covers from HF through the 430/440MHz band. Of course, all mode operation (SSB, CW, RTTY, AM and FM) is possible and a full 100W of output power is available for HF and 6m operation; 50W for 144MHz and 20W for 430/440MHz operation.

(* HF, 50MHz band only)

Portable Transceivers



HF/50MHz ALL MODE TRANSCEIVER IC-703

Built-in automatic antenna tuner for portable operation

Optional multi-bag, battery pack for field use

Built-in DSP Capabilities (Optional depending on version)

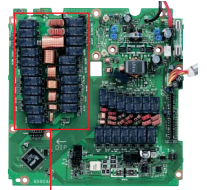
Maximum portable convenience

The IC-703 is designed for outdoor, portable operation. The optional battery pack, BP-228 provides 5W output power* and 7 hours* operating time. All the necessary equipment including an antenna, can be packed in the optional multi-bag LC-156.

* 2W in AM mode. * Tx:Rx:Stand-by=0.5:0.5:9 in SSB mode.

Built-in automatic antenna tuner

The built-in antenna tuner covers from 1.8MHz to 54MHz. Ideal for moving about during portable operation. Latch relays used in the antenna tuner greatly reduce the power consumption.



Built-in antenna tuner

DSP capabilities

The built-in DSP unit provides noise reduction and auto notch functions.

* UT-106 DSP unit required for some versions.

Other features

- Detachable controller with optional separation cables, OPC-581/OPC-587
- Standard ± 0.5 ppm high stability TCXO
- Front and rear microphone jacks
- 9600bps data terminal
- RIT, VOX, noise blanker and speech compressor standard
- 3-channel memory keyer
- RTTY (FSK) mode available
- Key backlighting

All Mode Transceivers



VHF/UHF ALL MODE TRANSCEIVER IC-910H

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

Simultaneously works two bands

Excellent support for satellite mode and Packet operation

100W of stable output power

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

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

Simultaneously works two bands

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

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

Satellite communication

The optional AG-2400 converts a 2.4GHz satellite downlink signal to a 144MHz signal. Coupled with the satellite mode of the IC-910H, the US mode and LS (UX-910 required) mode satellite operation is ready for use.



Optional AG-2400

Other features

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



IC-2820H

DUAL BAND TRANSCEIVERS

IC-2820H • IC-E2820

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 provides D-STAR DV mode operation plus GPS receiver capability. Your current position, own callsign and up to a 20-character message can be sent simultaneously with the digital voice transmission. When available from a calling station, the transceiver displays the distance and direction to the station.

Wideband receiver with simultaneous receive capability

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

*¹ Receiver range differs depending on version.

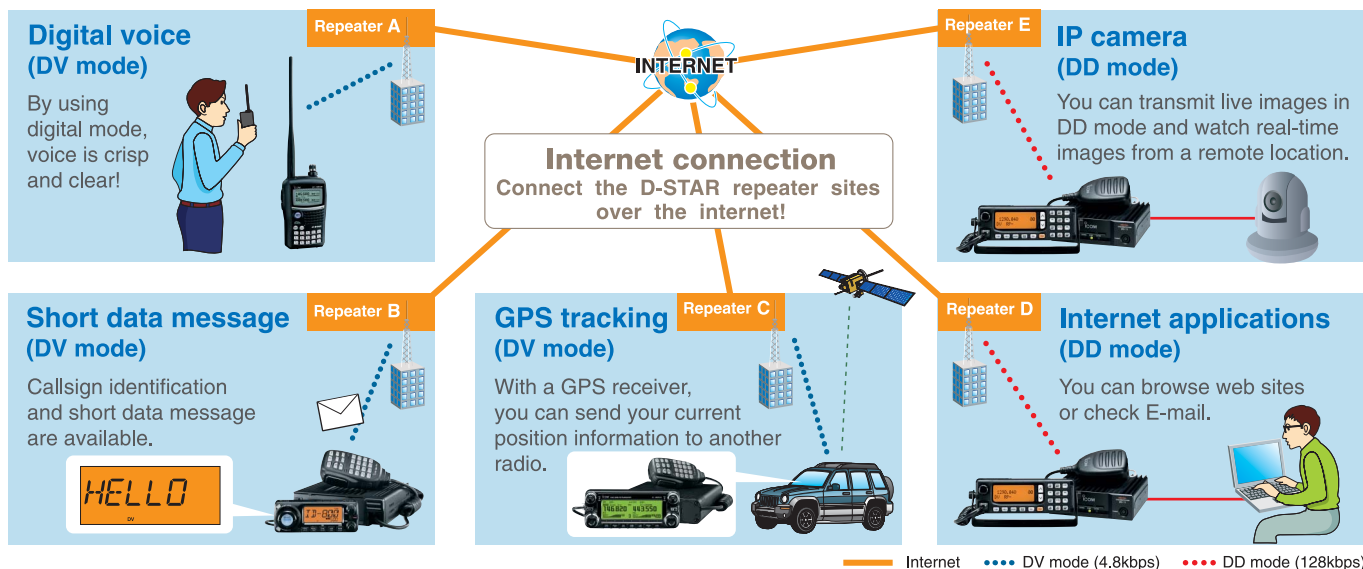
User-friendly operation

The large 93×28 mm (3¹/₃₂×1³/₃₂ in) full dot-matrix display presents an easy-to-read graphical interface. In addition, tuning knobs and buttons for each band are arranged side-by-side, providing intuitive operation.

Other features

- Separate controller from main unit
- 50W output on both VHF/UHF bands
- Diversity receive capability
- ±2.5ppm high frequency stability with TCXO unit
- Total 522 alphanumeric memory channels
- CTCSS, DTCS tone squelch operation
- 16 DTMF memory channels
- 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

D-STAR! — Next Generation Digital Smart Technology for Amateur Radio —



D-STAR repeater



ID-RP2C
Repeater controller



ID-RP2D
1.2GHz DD mode module



ID-RP2V
1.2GHz DV mode module



ID-RP2000V
144MHz DV mode module



ID-RP4000V
430/440MHz DV mode module



RS-RP2L
Internet gateway software

Crossband repeater (DV mode)

Cross band operation
with 144/440/1200 MHz is possible

DIGITAL



1200MHz DIGITAL TRANSCEIVER

ID-1

128kbps data and 4.8kbps digital voice communication

PC remote control software

Wireless Internet access

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

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

* Maximum speed.

PC remote controller supplied

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

Wireless Internet access

The D-STAR uses the same TCP/IP protocol as the Internet. When the ID-1 is connected to a PC, you can access web sites or check e-mail in DD mode from a remote location*.

* Within a D-STAR repeater service area.

Other features

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

* Depending on version.

DIGITAL



VHF/UHF DIGITAL TRANSCEIVER

ID-800H

Digital Voice + 950bps data capability

GPS coordination

Calling by callsign

Digital Voice + 950 bps data*

The ID-800H can transmit and receive D-STAR format digital voice and 950 bps data communication simultaneously. The DV mode features of the ID-800H are compatible with other D-STAR models. In addition, analog FM mode is also available.

* Maximum speed.

GPS coordination data

When an external GPS receiver (NMEA 0183 format) is connected to the ID-800H, yours and other station's position information can be exchanged and shown on the display. When the receiving side is connected to a PC*, map plotting is possible. Supported data formats are GLL, GGA, RMC, GSA and VTG sentences.

* Map plotting software required (Not supplied by Icom).

Calling by callsign

In the digital voice mode, your callsign and the calling station's callsign (or CQ message) are included in each transmission. The callsign squelch allows you to choose an incoming call selected by the callsign. Received callsigns are also stored in memory.

Other features

- Powerful 55W/50W (VHF/UHF) output power
- Total 512 alphanumeric memory channels
- Wideband receiver
- CTCSS, DTMF tone
- Amber, green and yellow, triple color LCD illumination
- 16 DTMF memory channels
- Detachable front panel



IC-2720H

DUAL BAND FM TRANSCEIVERS

IC-2720H • IC-2725E

V/V, U/U simultaneous
receive capability

Wideband receiver
(Depending on version)

Flexible installation with
compact remote controller

V/V, U/U simultaneous receive capability

The IC-2720H/2725E is a unique dual band mobile, providing VHF/VHF, UHF/UHF simultaneous receive capability. A simple touch of a button changes the transmit band. In addition, its wideband receiver covers from 118–549 and 810–999MHz*, you will be able to listen to almost any communication!

* Receiver range differs depending on version.

Independent controls for each band

The IC-2720H/2725E provides separate tuning, volume, squelch knobs and function buttons for the left and right side bands. A wide LCD display shows both band settings in an easy to read side by side format. Also, listen to both bands independently through separate left and right band audio jacks.

Compact, remote controller

The combination bracket, MB-85 or the controller bracket, MB-84 is supplied as standard, depending on version. The MB-85 allows mounting of the controller on the main unit. The MB-84 offers flexible placement of the controller, while placing the main unit in an out-of-the-way location.

Other features

- 50W/35W (VHF/UHF) output power
- Total 212 memory channels
- Built-in 50 CTCSS, 104x2 DTCS tones
- 9600bps packet data terminal
- 14 DTMF memory channels
- Sub-band auto mute function
- Microphone jacks are located on both the controller and the main unit
- Weather alert*
- Auto repeater function*

* Depending on version.



IC-208H

VHF/UHF FM TRANSCEIVERS

IC-208H • IC-E208

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

Wideband receiver
(Depending on version)

Compact, detachable front panel
with separation cable

55W/50W (VHF/UHF) output power

Individual MOS-FET power amplifier modules supply the power for Icom's most powerful analog dual band mobile with 55W/50W (VHF/UHF). Stable power for long distance communications.

Wideband receiver

The IC-208H/E208 wideband receiver covers 118–173, 230–549 and 810–999 MHz*

as standard. Listen to Amateur VHF/UHF bands, as well as aviation, marine, weather and other utility communications in a compact mobile package.

* Receiver range differs depending on version.

Detachable front panel

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

* 111(W)x40(H)x26.3(D) mm; 4 3/8x1 9/16x1 1/2 in.

500 alphanumeric memory channels

With this much memory, you can fill your IC-208H/E208 with your favorite frequencies and operation settings such as output power, tone, and more! Then name each memory channel with up to 6 characters for quick channel identification.

Other features

- Amber, green and yellow, triple color LCD illumination
- 16 DTMF memory channels
- 50 CTCSS, 104x2 DTCS encoder/decoder
- 9600bps packet data terminal
- Easy to manage bank link scan system
- Pocket beep and tone scan

Mobile Transceivers



144MHz FM TRANSCEIVER

IC-V8000

Unbeatable 75W output power
with efficient cooling fan

Total 200 memory channels
with 10 memory banks

Remote control microphone,
HM-133V

75W of output power

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

Dynamic Memory Scan (DMS)

With 200 alphanumeric memory channels, Icom's exclusive DMS system gives you flex-

ibility over your scanning lists never offered before in a 2m mobile, fully customizable into 10 banks.

HM-133V, remote control microphone

The backlit HM-133V*, gives you control of your IC-V8000 in the palm of your hand. The Icom exclusive "Hot keys" (F1/F2) memorize the transceiver's full settings. As if switching between two separate radios, all operating frequencies, tone settings as well as the display color, fan speed, and set mode settings are memorized.

* Optional for some versions.

Other features

- Front mounted speaker
- Amber and green backlit LCD
- Built-in 50 CTCSS and 104x2 DTCS tones
- Rugged construction
- 10dB squelch attenuator
- Pocket beep and tone scan
- Standard DTMF encoder
- Optional DTMF decoder, UT-108
- Weather channel with weather alert*
- FM narrow switchable capability*
- Cloning capability from PC or between radios

(* Depending on version)



144MHz FM TRANSCEIVER

IC-2200H

Stable 65W output power

Optional digital unit, UT-118

User-friendly interface and
durable construction

65W* of output power

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

Optional digital unit, UT-118

The optional UT-118 provides D-STAR format digital voice and data communication at

4.8kbps, compatible with ID-800H and UT-118 installed IC-V82. When connected to an external GPS receiver*, position information can be exchanged with other stations.

(* NMEA 0183 output and RS-232C interface are required.)

Simple operation

The large tuning dial provides easy access to active channels even without looking at the front panel. Secondary functions are easily accessed by holding down the buttons.

CTCSS and DTCS operation

The IC-2200H contains 50 CTCSS and 104x2 DTCS encode/decode plus tone scan functions. The "pocket beep" feature gives you an audible and visual indicator of an incoming call.

And more...

- Total 207 alphanumeric memory channels
- 24 DTMF autodial memories
- DTMF code squelch and pager function with optional DTMF decoder, UT-108
- 10dB squelch attenuator
- Weather channel with weather alert function (U.S.A. version only)
- FM narrow mode (Depending on version)



IC-91AD

DIGITAL
With optional UT-121**

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

Wideband receiver*²
with dualwatch capability

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

Other features

- Up to 4.5–5 hours*³ of operating time with supplied Lithium-Ion battery pack
- Large dot-matrix LCD
- 104×2 DTCS or 50 CTCSS codes
- Compact body with water resistance (Equivalent to IPX4)
- Simple band scope
- Optional PC remote control capability
- 10 DTMF memories
- Total of 1304 memory channels
- External DC power jack
- Backlit LCD

*¹ Already installed in the IC-91AD.

*² Receiver range differs from depending on version.

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

VHF/UHF DUAL BAND TRANSCEIVERS

IC-91AD/A • IC-E91



IC-T90A

Rugged
MIL-STD 810

5W output power on 50, 144,
and 430(440)MHz band

Wideband receiver
— 495kHz to 999.990MHz*¹ —

555 alphanumeric memory
with 18 memory banks

Other features

- Up to 5–6 hours*² of operating time with supplied Lithium-Ion battery pack
- 104×2 DTCS or 50 CTCSS codes
- Compact body with splash resistance (Equivalent to IPX4)
- 10 DTMF memories
- Morse code synthesizer
- High speed scanning
- 13 scanning modes
- Antenna tip replaceable for 50MHz band
- Green, orange and yellow selectable backlit keypad color
- PC programmable
- Backlit LCD

*¹ Receiver range differs from depending on version.

*² Tx:Rx:Stand-by=1:1:8

VHF/UHF MULTIBAND FM TRANSCEIVERS

IC-T90A • IC-E90



Rugged
MIL-STD 810

6W*¹ powerful output for both
144 and 430(440) MHz bands

MIL-standard durable
construction

Built-in tone squelch with tone
scan and pocket beep functions

Other Features

- Large, easy-to-push PTT switch
- Optional HM-75A, microphone for simple remote control
- Thumb-touch lock switch
- 50 CTCSS tone encoder/decoder with pocket beep and tone scan functions
- 9 DTMF memories with up to 16 digits each
- Channel indication
- Auto power saver with selectable duty
- multiple scans provide versatile signal detection
- Auto power off
- Auto repeater function*²
- LCD backlight with timer

*¹ Typical; with 13.5V DC. *² Depending on version

VHF/UHF DUAL BAND FM TRANSCEIVER

IC-T7H



IC-P7A

Rugged
MIL-STD 810

Ultra compact, light weight body
47(W)×81(H)×28(D)mm, 160g*¹

Mini-power dual bander with
wideband receive capability

20 hours*² of operating time
with slim battery pack

Other features

- Simple operation and stylish design
- Built-in 50 CTCSS and 104×2 DTCS tones
- 1000 regular memory channels with 6-character alphanumeric naming
- 18 memory banks (Max. 100 Ch per bank)
- Auto memory write scan
- Bank link scan
- Auto power off
- Large backlit LCD
- Rapid charger, BC-164 is supplied
- Weather channel with weather alert*³
- 10dB attenuator
- Priority watch with priority beep

*¹ 1²⁷/₃₂×3³/₁₆×1³/₃₂ in; Projections are not included, 5.6oz; including battery pack and antenna.

*² Tx:Rx:Stand-by=5:5:90 *³ Depending on version.

VHF/UHF DUAL BAND FM TRANSCEIVERS

IC-P7A • IC-E7

Handheld Transceivers



IC-V85

110mm height – compact body
with IPX4 water resistance

7W high output power

External DC power jack

Other features

- 107 memory channels and 10 memory banks
- Up to 7 hours*¹ of operating time with Lithium-Ion battery pack
- 104x2 DTCS or 50 CTCSS tone codes
- Weather channel receive with weather alert*²
- Automatic repeater function*²
- Reversible control knob and up/down buttons assignment
- Optional UT-108 DTMF decoder
- Various scanning functions including program, memory, skip, priority and tone scan
- 16 DTMF memories
- Backlit LCD
- PC programmable

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

*² USA version only

144MHz FM TRANSCEIVERS

IC-V85 • IC-V85E

DIGITAL
With optional UT-118

Rugged
MIL-STD 810



IC-V82

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

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

200 alphanumeric memories
with 10 memory banks

Other features

- 104x2 DTCS or 50 CTCSS tone codes
- 16 DTMF memories
- Durable construction and simple operation
- Weather channel receive with weather alert*¹
- Backlit LCD
- Automatic repeater function*²
- Reversible control knob and up/down buttons assignment
- PC programmable
- Optional UT-108 DTMF decoder
- Various scanning functions including program, memory, skip, priority and tone scan
- Power save function
- FM narrow mode capability

*¹ IC-V82 USA version only, *² USA version only

VHF AND UHF TRANSCEIVERS

IC-V82 • IC-U82

144MHz

430(440)MHz



IC-V8

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

Military-grade tough construction

Reversible up/down buttons
and rotary selector










Other features

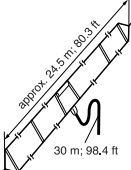





- 16 button keypad for easy-to-access functions
- Built-in 50 CTCSS and 104x2 DTCS tones with pocket beep and tone scan functions
- 100 memory channels with 5-characters alphanumeric naming
- 5 DTMF memory channels
- Optional, UT-108 DTMF decoder
- Fast scanning speed 40 channels per second (Program scan only)
- Backlit LCD
- Auto squelch delay
- Long and short, auto squelch delay
- Normal and reverse semi-duplex setting
- PC programmable










144MHz FM TRANSCEIVERS

IC-T3H • IC-V8

OPTIONS FOR DESKTOP & PORTABLE TRANSCEIVERS

	HAND MICROPHONES				DESKTOP MICROPHONE	EXTERNAL SPEAKERS			
MODEL NAME	HM-36	HM-103	HM-151 ^{*1}	HM-154T w/DTMF keypad	SM-20	SP-10	SP-20	SP-21	SP-23
									
IC-7800	✓				✓		✓		
IC-756PROIII	✓				✓		✓	✓	✓
IC-746PRO, IC-7400	✓				✓		✓	✓	✓
IC-718	✓				✓		✓	✓	✓
IC-7000			✓		(Use with OPC-589)	✓			
IC-706MKIIG		✓		✓	(Use with OPC-589)	✓			
IC-703		✓			(Use with OPC-589)	✓			
IC-910H	✓				✓		✓	✓	✓










	DC POWER SUPPLY	ANTENNA ELEMENTS		ANTENNA TUNERS		FOLDED DIPOLE ANTENNA	FILTERS		
MODEL NAME	PS-125 13.8V/25A	AH-2b Covers 7—54MHz.	AH-703 Covers 7, 14, 21, 28, 50MHz bands.	AH-4 Matches 3.5—54 MHz bands.	AT-180	AH-710 	FL-100 500Hz/−6dB FL-101 250Hz/−6dB FL-103 2.8kHz/−6dB FL-223 1.9kHz/−6dB FL-232 350Hz/−6dB	FL-52A 500Hz/−6dB FL-53A 250Hz/−6dB FL-222 1.8kHz/−6dB FL-257 3.3kHz/−6dB	FL-132 500Hz/−6dB (for Main band) FL-133 500Hz/−6dB (for Sub band)
									
IC-7800									
IC-756PROIII	✓	✓		✓					
IC-746PRO, IC-7400	✓	✓		✓					
IC-718	✓	✓		✓	✓	✓		✓	
IC-7000		✓		✓	✓				
IC-706MKIIG	✓	✓		✓	✓		✓		
IC-703	(Use with OPC-1248)	✓	✓	✓ ^{*3}	✓ ^{*3}		(Up to two filters)		
IC-910H	✓							(One of these filters)	✓







	HIGH STABILITY CRYSTAL UNITS			VOICE SYNTHESIZER	DSP UNIT	CI-V CONVERTER	LINEAR AMPLIFIER	BATTERY PACK	CHARGER
MODEL NAME	CR-282 Frequency stability: ±0.5ppm	CR-293 Frequency stability: ±0.5ppm	CR-338 Frequency stability: ±0.5ppm	UT-102	UT-106	CT-17	IC-PW1/EURO	BP-228 9.6V/2800mAh (Ni-Cd)	BC-155A/D
									
IC-7800						✓	✓		
IC-756PROIII			(CR-338 installed)	✓		✓	✓		
IC-746PRO, IC-7400			✓	✓		✓	✓		
IC-718			✓	✓	(Installed depending on version)	✓	(Use with OPC-599)		
IC-7000						✓	(Use with OPC-599)		
IC-706MKIIG	✓			✓	(Installed depending on version)	✓	(Use with OPC-599)		
IC-703				✓	(Installed depending on version)	✓		✓	
IC-910H		✓		✓	(Up to two units)	✓			✓





^{*1} For exclusive use with IC-7000 only.

^{*2} When used with a compact mobile type antenna, the IC-703 may receive switching noise from the PS-125.










^{*3} More than 11.0V power supply voltage required. The BP-228 cannot drive the AH-4/AT-180.









	MULTI-BAG	CARRYING HANDLES			MOBILE MOUNTING BRACKETS		CONTROLLER BRACKET		MOUNTING BASE
MODEL NAME	LC-156	MB-23	MB-72	MB-106	IC-MB5	MB-62	MB-63	MB-105	MB-65
									
IC-7800									
IC-756PROIII									
IC-746PRO, IC-7400									
IC-718		✓			✓				
IC-7000				✓		✓		✓	
IC-706MKIIG			✓			✓			(Use with MB-105)
IC-703	✓		✓			✓	✓		(Use with MB-63)
IC-910H		✓			✓				(Use with MB-63)







	SEPARATION CABLES		MIC ADAPTER CABLE	ACC CABLE	ADAPTER CABLE	ACC 13-PIN CABLE	POWER SUPPLY ADAPTER	DC POWER CABLES	
MODEL NAME	OPC-581 3.5m;11.5ft OPC-587 5.0m;16.4ft 	OPC-1443 3.5m;11.5ft OPC-1444 5.0m;16.4ft 	OPC-589 8-pin connector microphone to 8-pin modular 	OPC-598 13-pin ACC long cable for AT-180 7.0m;22ft 	OPC-599 13-pin ACC socket to 7-, 8- pin ACC sockets 	OPC-742 Connection cable between transceiver and AT-180 with 2m/70cm linear amplifier.	OPC-1248 3-pin DC cable to 6-pin connector 	OPC-025A 20A cable OPC-025D 30A cable OPC-1229 4A cable OPC-1457 30A cable	OPC-639 20A cable with Noise Filter OPC-1457R 30A cable with Noise Filter For Europe versions
IC-7800									
IC-756PROIII								(Use OPC-025D)	
IC-746PRO, IC-7400								(Use OPC-025D)	
IC-718					✓			(Use OPC-025A)	
IC-7000		✓	✓	✓	✓	✓		(Use OPC-1457)	(Use OPC-1457R)
IC-706MKIIG	✓		✓	✓	✓	✓		(Use OPC-025D)	(Use OPC-639)
IC-703	✓		✓	✓	✓		✓	(Use OPC-1229)	
IC-910H								(Use OPC-025D)	

	WATERPROOF PREAMPLIFIERS	DOWN CONVERTER	1200MHz BAND UNIT					
MODEL NAME	AG-25 144MHz. Not available for EU countries	AG-35 430MHz. Not available for EU countries	AG-2400 Converts 2400– 2402MHz to 144–146MHz.	UX-910				
								
IC-7800								
IC-756PROIII								
IC-746PRO, IC-7400								
IC-718								
IC-7000								
IC-706MKIIG								
IC-703								
IC-910H	✓	✓	✓	✓				










OPTIONS FOR MOBILE TRANSCEIVERS









	HAND MICROPHONES			CONTROLLER BRACKETS		MOUNTING BASE	COMBINATION BRACKET	DC POWER CABLES	CONTROLLER
MODEL NAME	HM-154 	HM-154T w/DTMF keypad 	HM-133/V w/DTMF keypad 	MB-58 	MB-84 	MB-65 	MB-85 	OPC-347 7.0m: 23ft OPC-1132A 3.0m: 9.8ft 	RC-24 
ID-1	✓								✓
ID-800H	✓		(Use HM-133)	✓		(Use with MB-58)		✓	
IC-2820H, IC-E2820	✓		(Use HM-133)			✓		✓	
IC-2720H, IC-2725E	✓	✓	(Use HM-133)		✓	(Use with MB-84)	✓	✓	
IC-208H, IC-E208	✓	✓	(Use HM-133)	✓		(Use with MB-58)		✓	
IC-V8000	✓	✓	(Use HM-133V)					✓	
IC-2200H	✓	✓	(Use HM-133V)					✓	

	SEPARATION CABLES			SPEAKER CABLE	MICROPHONE CABLE	MIC ADAPTER CABLE	DATA CABLES	
MODEL NAME	OPC-600/R 3.5m: 11.5ft OPC-601/R 7.0m: 23ft 	OPC-1156 3.5m: 11.5ft with modular cable 	OPC-1663 3.4m: 11.2ft OPC-1712 10cm: 3.9in 	OPC-441 5.0m: 16.4ft 	OPC-440 5.0m: 16.4ft 	OPC-589 8-pin connector microphone to 8-pin modular 	OPC-1384 For PC, GPS connection 	OPC-1529R For data com- munication and PC cloning 
ID-1					✓			
ID-800H	✓			✓	✓		✓	
IC-2820H, IC-E2820			✓	✓	✓	✓		✓
IC-2720H, IC-2725E		✓		✓	✓	✓		
IC-208H, IC-E208	✓			✓	✓	✓		
IC-V8000				✓	✓	✓		
IC-2200H				✓	✓	✓		









	CLONING CABLES		CLONING SOFTWARE	EXTERNAL SPEAKERS		DTMF DECODER UNIT	DIGITAL UNITS	
MODEL NAME	OPC-474 Between trans- ceivers 	OPC-478 Transceiver to PC RS-232C cable	CS-208 CS-2200H CS-2720 CS-2820 CS-D800 CS-V8000	SP-10 	SP-22 	UT-108 	UT-118 	UT-123 With GPS receiver 
ID-1				✓	✓		(D-STAR ready)	
ID-800H	✓	✓	(Use CS-D800)	✓			(D-STAR ready)	
IC-2820H, IC-E2820	✓	✓	(Use CS-2820)	✓				✓
IC-2720H, IC-2725E	✓	✓	(Use CS-2720)	✓				
IC-208H, IC-E208	✓	✓	(Use CS-208)	✓				
IC-V8000	✓	✓	(Use CS-V8000)	✓		✓		
IC-2200H	✓	✓	(Use CS-2200H)	✓		✓	✓	

OPTIONS FOR HANDHELD TRANSCEIVERS










MODEL NAME	BATTERY CASES				BATTERY PACKS				
	BP-170 AA(LR6)×4 cells	BP-208N AA(LR6)×6 cells	BP-216 AA(LR6)×2 cells	BP-226 AA(LR6)×5 cells	BP-171 4.8V/700mAh (Ni-Cd)	BP-172 4.8V/950mAh (Ni-Cd)	BP-180 7.2V/600mAh (Ni-Cd)	BP-209N 7.2V/1100mAh (Ni-Cd)	BP-210N 7.2V/1650mAh (Ni-MH)
IC-91AD/A, IC-E91									
IC-T90A, IC-E90			✓						
IC-T7H	✓		✓		✓	✓	✓		
IC-P7A, IC-E7									
IC-V85/E				✓					
IC-V82, IC-U82		✓						✓	✓
IC-V8, IC-T3H		✓						✓	✓






MODEL NAME	BATTERY PACKS					DESKTOP CHARGERS			
	BP-211N 7.4V/1800mAh (Li-Ion)*1	BP-217 7.4V/1300mAh (Li-Ion)	BP-222N 7.2V/600mAh (Ni-Cd)	BP-227 7.2V/1700mAh (Li-Ion)	BP-243 3.7V/1800mAh (Li-Ion)	BC-119N Rapid charger	BC-121N Rapid multi-charger	BC-139 Rapid charger Includes AC adapter.	BC-144N Rapid charger
IC-91AD/A, IC-E91									
IC-T90A, IC-E90		✓						✓	
IC-T7H		✓						✓	
IC-P7A, IC-E7						(Use with AD-56+BC-145)			
IC-V85/E				✓	✓	(Use with AD-100+BC-145)	(Use with AD-100+BC-157)		
IC-V82, IC-U82	✓		✓			(Use with AD-101+BC-145)	(Use with AD-101+BC-157)		(Use with BC-145)
IC-V8, IC-T3H			✓			(Use with AD-94+BC-145)	(Use with AD-94+BC-157)		(Use with BC-145)










*1 Charge with BC-119N/BC-121N + AD-101.









MODEL NAME	DESKTOP CHARGERS		AC ADAPTERS				WALL CHARGERS	
	BC-146 Regular charger	BC-164 Rapid charger	BC-145 16V/1A	BC-145L 16V/1A	BC-147 12V/200mA	BC-157 12V/6.6A	BC-110 12V/200mA	BC-167 12V/200mA
IC-91AD/A, IC-E91								
IC-T90A, IC-E90							✓	✓
IC-T7H			(Use with BC-119N)				✓	
IC-P7A, IC-E7		(Use with BC-145L)		(Use with BC-164)				
IC-V85/E			(Use with BC-119N)			(Use with BC-121N)		✓
IC-V82, IC-U82	(Use with BC-147)		(Use with BC-144N or BC-119N)		(Use with BC-146)	(Use with BC-121N)		
IC-V8, IC-T3H	(Use with BC-147)		(Use with BC-144N or BC-119N)		(Use with BC-146)	(Use with BC-121N)		







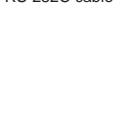


OPTIONS FOR HANDHELD TRANSCEIVERS



	CHARGER ADAPTERS				CIGARETTE LIGHTER CABLES			DC POWER CABLES	
MODEL NAME	AD-56	AD-94	AD-100	AD-101	CP-12L w/noise filter	CP-19R w/noise filter	CP-21LR w/noise filter	OPC-254L	OPC-656 12-20V DC CABLE
									
IC-91AD/A, IC-E91						✓		✓	
IC-T90A, IC-E90						✓			
IC-T7H	(Use with BC-119N)				✓			✓	
IC-P7A, IC-E7							(Use with BC-164)		
IC-V85/E			(Use with BC-119N or BC-121N)			✓			(Use with BC-121N)
IC-V82, IC-U82				(Use with BC-119N or BC-121N)					(Use with BC-121N)
IC-V8, IC-T3H		(Use with BC-119N or BC-121N)							(Use with BC-121N)

	SPEAKER-MICROPHONES						EARPHONE-MICROPHONES		
MODEL NAME	HM-46/L	HM-54	HM-75A	HM-131	HM-158L	HM-159L	HM-153/L/P	HM-166/L/PL	
									
IC-91AD/A, IC-E91			✓	✓			(Use HM-153)	(Use HM-166)	
IC-T90A, IC-E90	(Use HM-46)	✓	✓	✓				(Use HM-166)	
IC-T7H	(Use HM-46)	✓	✓	✓				(Use HM-166)	
IC-P7A, IC-E7				(Use with OPC-782)			(Use HM-153P)	(Use HM-166PL)	
IC-V85/E			✓		✓	✓	(Use HM-153L)	(Use HM-166L)	
IC-V82, IC-U82			✓		✓	✓	(Use HM-153L)	(Use HM-166L)	
IC-V8, IC-T3H	(Use HM-46L)	✓	✓		✓	✓	(Use HM-153L)	(Use HM-166L)	

	HEADSETS				VOX/PTT CASE	EARPHONE	PLUG ADAPTER CABLE	BELT CLIPS	
MODEL NAME	HS-85	HS-94 Earhook type with boom microphone	HS-95 Behind-the-head type	HS-97 Throat microphone type	VS-1L	SP-13	OPC-782	MB-83 Swivel type	MB-86 Swivel type
									
IC-91AD/A, IC-E91	✓					✓			
IC-T90A, IC-E90	✓					✓		✓	
IC-T7H	✓					✓			
IC-P7A, IC-E7						(Use with OPC-782)	✓		
IC-V85/E	✓	(Use with VS-1L)	(Use with VS-1L)		✓	✓			
IC-V82, IC-U82	✓	(Use with VS-1L)	(Use with VS-1L)	(Use with VS-1L)	✓	✓			
IC-V8, IC-T3H	✓					✓			✓

	BELT CLIPS		LEATHER BELT HANGERS			CARRYING CASES			
MODEL NAME	MB-98 Alligator type	MB-103 Alligator type	MB-96N Swivel type. MB-86 swivel joint supplied	MB-96F Fixed type		LC-136	LC-137	LC-152A	LC-161
									
IC-91AD/A, IC-E91									
IC-T90A, IC-E90			(Use with MB-83 swivel joint)					✓	
IC-T7H						(Use with BP-170/171/172)	(Use with BP-180)		
IC-P7A, IC-E7									✓
IC-V85/E	✓								
IC-V82, IC-U82		✓	✓	✓					
IC-V8, IC-T3H		✓	✓	✓					

	CARRYING CASES		DTMF DECODER UNIT	DIGITAL UNITS		CLONING CABLES			DATA CABLE
MODEL NAME									
IC-91AD/A, IC-E91	✓				✓ (Already installed in IC-91AD)	✓			✓
IC-T90A, IC-E90						✓			
IC-T7H						✓	✓		
IC-P7A, IC-E7						✓	✓		
IC-V85/E		✓	✓			✓	✓	✓	
IC-V82, IC-U82			✓	✓		✓	✓		
IC-V8, IC-T3H			✓			✓	✓		

	CLONING SOFTWARE	REMOTE CONTROL SOFTWARE	ANTENNA ADAPTER	ANTENNAS				
MODEL NAME	CS-P7 CS-T7 CS-T90A CS-V8 CS-V82 CS-V85	RS-91 OPC-1529R cable included	AD-92SMA BNC type antenna connector	FA-1443B FA-B2E FA-B270C FA-B70C FA-S270C FA-S6270D				
								
IC-91AD/A, IC-E91		✓	✓	(Use FA-S270C)				
IC-T90A, IC-E90	(Use CS-T90A)		✓	(Use FA-S6270D)				
IC-T7H	(Use CS-T7)			(Use FA-1443B/B270C)				
IC-P7A, IC-E7	(Use CS-P7)		✓	(Use FA-S270C)				
IC-V85/E	(Use CS-V85)			(Use FA-B2E)				
IC-V82, IC-U82	(Use CS-V82)			(Use FA-B2E/B70C)				
IC-V8, IC-T3H	(Use CS-V8)			(Use FA-B2E)				

SPECIFICATIONS FOR DESKTOP TRANSCEIVERS

		IC-7800	IC-756PROIII	IC-746PRO IC-7400	IC-718
General	Frequency coverage (Differs according to version)	Tx: 137kHz ^{*1} , 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, 7, 10, 14, 18, 21, 24, 28, 50, 144MHz bands Rx: 30kHz–60MHz, 108–174MHz ^{*1} ^{*1} Some frequency ranges are not guaranteed.	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.
	Modes	USB, LSB, CW, RTTY, PSK31, AM, FM	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, RTTY, AM
	Frequency stability	±0.05ppm (0°C to +50°C; +32°F to +122°F, after warm up)	±0.5ppm (–10°C to +50°C; +14°F to +122°F)	±7ppm (From 1 min. to 60 min. after power ON)	Less than ±200Hz (From 1 min. to 60 min. after power ON)
	Maximum current drain	800VA	23A at 13.8V DC	23A at 13.8V DC	20A at 13.8V DC
	Power supply requirement	85–265V AC	13.8V DC ±15%	13.8V DC ±15%	13.8V DC ±15%
	Antenna connector	SO-239 × 4 + BNC × 2 (50Ω)	SO-239 × 2 + phono [(RCA) 50Ω]	SO-239 × 3 (2 for HF/50MHz and 1 for 144MHz bands; 50Ω)	SO-239 (50Ω)
	Number of memory channels	101 (99 regular, 2 scan edges)	101 (99 regular, 2 scan edges)	102 (99 regular, 2 scan edges and 1 call)	101 (99 regular, 2 scan edges)
	Dimensions (W×H×D; Projections are not included)	424×149×435 mm; 16 ¹ / ₁₆ ×5 ⁷ / ₈ ×17 ¹ / ₈ in	340×111×285 mm; 13 ³ / ₈ ×4 ³ / ₈ ×11 ⁷ / ₃₂ in	287×120×316.5 mm; 11 ⁵ / ₁₆ ×4 ²³ / ₃₂ ×12 ¹⁵ / ₃₂ in	240×95×239 mm; 9 ⁷ / ₁₆ ×3 ³ / ₄ ×9 ¹³ / ₃₂ in
	Weight (approx.)	25kg; 55lb	9.6kg; 21.2lb	9.0kg; 19.8lb	3.8kg; 8.4lb
Transmitter	Output power	SSB, CW, RTTY, PSK31, FM: 5–200W AM: 5–50W 137kHz (CW): More than –20dBm	SSB, CW, RTTY, FM: 5–100W AM: 5–40W	SSB, CW, RTTY, FM: 5–100W AM: 5–40W	SSB, CW, RTTY: 2–100W AM: 2–40W
	Spurious emissions	Less than –60dB (HF) Less than –70dB (50MHz)	Less than –50dB (HF) Less than –60dB (50MHz)	Less than –50dB (HF) Less than –60dB (50/144MHz)	Less than –50dB
	Carrier suppression	More than 63dB	More than 40dB	More than 40dB	More than 40dB
	Unwanted sideband	More than 80dB	More than 55dB	More than 55dB	More than 50dB
	Microphone connector	8-pin connector (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)
Receiver	Sensitivity (typical) Preamp ON SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12dB SINAD	SSB, CW, RTTY, PSK31 (2.4kHz): 0.1–1.799MHz 0.5μV 1.8–29.999MHz 0.16μV 50–54MHz 0.13μV AM : 0.1–1.799MHz 6.3μV (6kHz) 1.8–29.999MHz 2.0μV 50–54MHz 1.0μV FM : 28–29.999MHz 0.5μV (15kHz) 50–54MHz 0.32μV	SSB, CW, RTTY (2.4kHz): 1.8–29.999MHz 0.16μV 50–54MHz 0.13μV AM: 0.5–1.799MHz 13μV (6kHz) 1.8–29.999MHz 2.0μV 50–54MHz 1.0μV FM: 28–29.999MHz 0.5μV (15kHz) 50–54MHz 0.32μV	SSB, CW, RTTY, FM (2.4kHz): 1.8–29.999MHz 0.16μV 50–54MHz 0.13μV 144–148MHz 0.11μV AM: 0.5–1.8MHz 13μV (6kHz) 1.8–29.999MHz 2.0μV 50–54MHz 1.0μV 144–148MHz 1.0μV FM: 28–29.999MHz 0.5μV (15kHz) 50–54MHz 0.25μV 144–148MHz 0.18μV	SSB, CW, RTTY: 1.8–29.999MHz 0.16μV AM: 0.5–1.799MHz 13μV 1.8–29.999MHz 2.0μV
	Selectivity	SSB: 2.4kHz/–3dB (2.4kHz) 3.6kHz/–60dB CW: 500Hz/–3dB (500Hz) 700Hz/–60dB RTTY, PSK31: 360Hz/–6dB (350Hz) 650Hz/–60dB AM: 6.0kHz/–3dB (6kHz) 15kHz/–60dB FM: 12kHz/–6dB (15kHz) 20kHz/–60dB *variable between 50Hz and 3.6kHz	SSB, RTTY: 2.4kHz/–6dB (2.4kHz) 3.2kHz/–40dB 3.6kHz/–60dB 4.3kHz/–80dB CW: 500Hz/–6dB (500Hz) 700Hz/–60dB AM: 6.0kHz/–6dB (6kHz) 15kHz/–60dB FM: 12kHz/–6dB (15kHz) 20kHz/–60dB *variable between 50Hz and 3.6kHz	SSB: 2.4kHz/–6dB (2.4kHz) 3.2kHz/–40dB 3.6kHz/–60dB 4.3kHz/–80dB CW: 500Hz/–6dB (500Hz) 700Hz/–60dB RTTY: 360Hz/–6dB (350Hz) 650Hz/–60dB AM: 6.0kHz/–6dB (6kHz) 15.0kHz/–60dB FM: 12kHz/–6dB (15kHz) 20kHz/–60dB *variable between 50Hz and 3.6kHz	SSB, CW, RTTY: 2.1kHz/–6dB 4.5kHz/–60dB AM: 6.0kHz/–6dB 20kHz/–40dB
	Spurious and image rejection	More than 70dB	More than 70dB	More than 70dB* (HF, 50MHz bands) More than 60dB (144MHz band) (*Except IF point on 50MHz band)	More than 70dB (1.8–29.999MHz)
	AF power (at 10% distortion with an 8Ω load)	More than 2.6W	More than 2.0W	More than 2.0W	More than 2.0W
	External speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω×2 (for main and sub bands)	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω

The LCD display may have cosmetic imperfections that appear as small or dark spots. This is not a malfunction or defect, but a normal characteristic of LCD displays.
All stated specifications are subject to change without notice or obligation.

		IC-7000	IC-706MKIIG	IC-703	IC-910H
General	Frequency coverage (Differs according to version)	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 guaranteed.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50, 144, 430(440)MHz bands Rx: 30kHz–199.999, 400–470MHz* ¹ * ¹ Some frequency ranges are not guaranteed.	Tx: 1.8, 3.5, 5* ¹ , 7, 10, 14, 18, 21, 24, 28, 50* ¹ MHz bands Rx: 30kHz–60MHz* ² * ¹ Depending on version. * ² Some frequency ranges are not guaranteed.	U.S.A. version: Tx: 144–148, 430–450, 1240–1300* ¹ MHz Rx: 136–174* ² , 420–480* ² , 1240–1320* ¹ MHz Europe version: Tx/Rx: 144–146, 430–440 1240–1300* ¹ MHz
	Modes	USB, LSB, CW, RTTY, AM, FM, WFM* (*Rx only)	USB, LSB, CW, RTTY, AM, FM, WFM* (*Rx only)	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, FM, FM-N (FM-N is not available in 1200MHz band)
	Frequency stability	±0.5ppm (0°C to +50°C; +32°F to +122°F)	±7ppm (From 1 min. to 60 min. after power ON)	±0.5ppm (0°C to +50°C; +32°F to +122°F)	±3ppm (–10°C to +60°C; +14°F to +140°F)
	Maximum current drain	22A at 13.8V DC	20A at 13.8V DC	3.0A typical at 13.8V DC (10W) 2.0A typical at 9.6V DC (5W)	23A at 13.8V DC
	Power supply requirement	13.8V DC ±15%	13.8V DC ±15%	9–15.8V DC	13.8V DC ±15%
	Antenna connector	SO-239 × 2 (for HF/50MHz and 144/430(440)MHz bands: 50Ω)	SO-239 × 2 (for HF/50MHz and 144/430(440)MHz bands: 50Ω)	SO-239 (50Ω)	144MHz SO-239 (50Ω) 430 (440) MHz Type-N (50Ω) 1200* ¹ MHz Type-N (50Ω)
	Number of memory channels	503 (495 regular, 6 scan edges and 2 call)	107 (99 regular, 6 scan edges and 2 call)	105 (99 regular and 6 scan edges)	328* ¹ (99 regular, 6 scan edges and 1 call for each band plus 10 satellite memories)
	Dimensions (W×H×D; Projections are not included)	167×58×180 mm; 6 ⁹ / ₁₆ ×2 ⁹ / ₃₂ ×7 ³ / ₃₂ in	167×58×200 mm; 6 ⁹ / ₁₆ ×2 ⁹ / ₃₂ ×7 ⁷ / ₈ in	167×58×200 mm; 6 ⁹ / ₁₆ ×2 ⁹ / ₃₂ ×7 ⁷ / ₈ in	241×94×239 mm; 9 ¹ / ₂ ×3 ¹ / ₁₆ ×9 ¹ / ₃₂ in
	Weight (approx.)	2.3kg; 5.1lb	2.45kg; 5.4lb	2.0kg; 4.4lb	4.5kg; 9.9lb (IC-910H) 850g; 1.9lb (UX-910)
Transmitter	Output power	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, FM: 1.8–50MHz 5–100W 144MHz 5–50W 430(440)MHz 2–20W AM: 1.8–50MHz 2–40W 144MHz 2–20W 430(440)MHz 2–8W	SSB, CW, RTTY, FM: at 13.8V DC 0.1–10W at 9.6V DC 0.1–5W AM: at 13.8V DC 0.1–4W at 9.6V DC 0.1–2W	144MHz 5–100W 430 (440) MHz 5–75W 1200MHz* ¹ 1–10W
	Spurious emissions	Less than –50dB (HF) Less than –60dB (other bands)	–50dB typical (HF) Less than –60dB (other bands)	Less than –50dB (HF) Less than –60dB (50MHz)	Less than –60dB (144/430MHz) Less than –50dB (1200MHz* ¹)
	Carrier suppression	More than 50dB	More than 40dB	More than 40dB	More than 40dB
	Unwanted sideband	More than 50dB	More than 50dB	More than 50dB	More than 40dB
	Microphone connector	8-pin modular (600Ω)	8-pin modular (600Ω)	8-pin modular (600Ω)	8-pin connector (600Ω)
Receiver	Sensitivity (typical) Preamp ON SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12dB SINAD	SSB, CW: 1.8–29.999MHz 0.15μV 50–54MHz 0.12μV 144/430(440)MHz 0.11μV AM: 0.5–1.8MHz 13μV 1.8–29.999MHz 2.0μV 50–54MHz 1.0μV 144/430(440)MHz 1.0μV FM: 28–29.7MHz 0.5μV 50–54MHz 0.25μV 144/430(440)MHz 0.18μV WFM: 76–108MHz 10μV	SSB, CW: 1.8–29.995MHz 0.15μV 50–54MHz 0.12μV 144/430(440)MHz 0.11μV AM: 0.5–1.8MHz 13μV 1.8–29.995MHz 2.0μV 50–54MHz 1.0μV 144/430(440)MHz 1.0μV FM: 28–29.7MHz 0.5μV 50–54MHz 0.25μV 144/430(440)MHz 0.18μV WFM: 76–108MHz 10μV	SSB, CW: 1.8–29.999MHz 0.16μV 50–54MHz 0.13μV 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	SSB, CW: 0.11μV FM: 0.18μV
	Selectivity	SSB: 2.4kHz/–6dB (2.4kHz) 3.6kHz/–60dB CW: 500Hz/–6dB (500Hz) 900Hz/–60dB RTTY: 360Hz/–6dB (350Hz) 650Hz/–60dB AM: 6.0kHz/–6dB (6kHz) 15kHz/–60dB FM: 12kHz/–6dB (15kHz) 20kHz/–60dB	SSB, CW, RTTY: 2.4kHz/–6dB 4.8kHz/–60dB AM, FM-N: 8.0kHz/–6dB 30kHz/–36dB FM: 12kHz/–6dB 30kHz/–50dB	SSB, CW: 2.4kHz/–6dB (2.4kHz) 4.0kHz/–60dB AM, FM-N: 9.0kHz/–6dB (6kHz) 20kHz/–50dB FM: 15kHz/–6dB (15kHz) 30kHz/–50dB	SSB, CW: 2.3kHz/–6dB 4.2kHz/–60dB FM: 15kHz/–6dB 30kHz/–60dB FM-N: 6.0kHz/–6dB 18kHz/–60dB
	Spurious and image rejection (except IF)	More than 70dB (HF) More than 65dB (other bands; except 1/2 IF point on 50MHz, IF point 144MHz band)	More than 70dB (HF) More than 65dB (other bands; except IF point on 50MHz band)	More than 70dB (HF) More than 65dB (50MHz band; except IF point)	More than 60dB (144/430MHz band) More than 50dB (1200MHz band* ¹)
	AF power (at 10% distortion with an 8Ω load)	More than 2.0W	More than 2.0W	More than 1.0W (at 13.8V DC) More than 0.5W (at 9.6V DC)	More than 2.0W
	External speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω × 2 (for Main and Sub bands)

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

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

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SPECIFICATIONS FOR MOBILE TRANSCEIVERS

	ID-1	ID-800H	IC-2820H IC-E2820	IC-2720H IC-2725E
Frequency coverage (Differs according to version, Unit: MHz)	1240–1300	U.S.A. version : Tx 144–148, 420–450* ¹ Rx 118–173.995, 230–549.995, 810–999.990* ^{1*2}	IC-2820H (U.S.A.): Tx 144–148, 430–450* ¹ Rx (L) 118–549.995* ¹ (R) 118–173.995, 375–549.995, 810–999.990* ^{1*2} IC-E2820 (Europe-1): Tx 144–146, 430–440 Rx (L) 118–549.995* ³ (R) 118–173.995, 375–549.995, 810–999.990* ³	IC-2720H (U.S.A.): Tx 144–148, 430–450* ¹ Rx (L) 118–549.995* ¹ (R) 118–173.995, 375–549.995, 810–999.990* ^{1*2} IC-2725E (Europe): Tx/Rx 144–146, 430–440
Max. current drain	7A	VHF 12A UHF 12.5A	13A	VHF 12A UHF 11A
Dimensions (W×H×D; Proj. not included)	Main unit: 141×40×165.8 mm; 5 ⁹ / ₁₆ ×1 ⁹ / ₁₆ ×6 ¹⁷ / ₃₂ in Controller: 150×50×49.5 mm; 5 ²⁹ / ₃₂ ×1 ³¹ / ₃₂ ×1 ¹⁵ / ₁₆ in	141×40×185.4 mm; 5 ⁹ / ₁₆ ×1 ⁹ / ₁₆ ×7 ⁵ / ₁₆ in	Main unit: 150×40×187.7 mm; 5 ²⁹ / ₃₂ ×1 ⁹ / ₁₆ ×7 ¹³ / ₃₂ in Controller: 150×58×31.5 mm; 5 ²⁹ / ₃₂ ×2 ⁹ / ₃₂ ×1 ¹ / ₄ in	Main unit: 140×40×187 mm; 5 ¹ / ₂ ×1 ⁹ / ₁₆ ×7 ³ / ₈ in Controller: 140×50×24.5 mm; 5 ¹ / ₂ ×1 ³¹ / ₃₂ ×3 ¹ / ₃₂ in
Weight (approx.)	Main unit: 1.2kg; 2.6lb Controller: 220g; 7.7oz	1.2kg; 2.65lb	Main unit: 1.5kg; 3.3lb Controller: 210g; 7.4oz (With OPC-1712)	Main unit: 1.25kg; 2.8lb Controller: 150g; 5.3oz
Output power (at 13.8V DC; Differs according to version)	High: 10W Low: 1W (approx.)	144MHz High: 55W Mid.: 15W (approx.) Low: 5W (approx.) 430(440)MHz High: 50W Mid.: 15W (approx.) Low: 5W (approx.)	High: 50W Mid.: 15W (approx.) Low: 5W (approx.)	144MHz High: 50W Mid.: 15W (approx.) Low: 5W (approx.) 430(440)MHz High: 35W Mid.: 15W (approx.) Low: 5W (approx.)
Sensitivity (at 12dB SINAD)	DV Less than 0.35μV DD Less than 1.58μV FM Less than 0.18μV (DV, DD = at BER 1%)	DV Less than 0.35μV FM Less than 0.18μV (144, 430(440) MHz bands, DV = at BER 1%)	DV Less than 0.35μV FM Less than 0.18μV (144, 430(440) MHz bands, DV = at BER 1% with UT-123	Less than 0.18μV (144, 430(440) MHz bands)

*¹ Guaranteed range 144–148 and 440–450MHz. *² Cellular blocked. *³ Guaranteed range 144–146MHz and 430–440MHz. (L) means left side receiver, (R) means right side receiver.

	IC-208H IC-E208	IC-V8000	IC-2200H
Frequency coverage (Differs according to version, Unit: MHz)	IC-208H (U.S.A.): Tx 144–148, 420–450* ¹ Rx 118–173.995, 230–549.995, 810–999.990* ^{1*2} IC-E208 (Europe): Tx 144–146, 430–440 Rx 118–173.995, 230–549.995, 810–999.990* ³ IC-E208 (Europe-1) Tx/Rx 144–146, 430–440	U.S.A version Tx 144–148 Rx 136–174* ⁴	U.S.A. version: Tx 144–148 Rx 118–174* ⁴ Europe version: Tx 144–146 Rx 118–174* ⁵ Europe-1 version: Tx/Rx 144–146
Max. current drain	VHF 12A UHF 11.5A	15A	15A
Dimensions (W×H×D; Proj. not included)	141×40×185.4 mm; 5 ⁹ / ₁₆ ×1 ⁹ / ₁₆ ×7 ⁵ / ₁₆ in	150×50×150 mm; 5 ²⁹ / ₃₂ ×1 ³¹ / ₃₂ ×5 ²⁹ / ₃₂ in	140×40×196 mm; 5 ¹ / ₂ ×1 ⁹ / ₁₆ ×7 ²³ / ₃₂ in
Weight (approx.)	1.2kg; 2.65lb	1.09kg; 2.2lb	1.25kg; 2.75lb
Output power (at 13.8V DC; Differs according to version)	144MHz High: 55W Mid.: 15W (approx.) Low: 5W (approx.) 430(440)MHz High: 50W Mid.: 15W (approx.) Low: 5W (approx.)	High: 75W Mid-Hi: 25W (approx.) Mid-Lo: 10W (approx.) Low: 5W (approx.)	High: 65W Mid-Hi: 25W (approx.) Mid-Lo: 10W (approx.) Low: 5W (approx.)
Sensitivity (at 12dB SINAD)	Less than 0.18μV (144, 430(440) MHz bands)	0.15μV typ.	0.133μV typ.

*¹ Guaranteed range 144–148 and 440–450MHz. *² Cellular blocked. *³ Guaranteed range 144–146MHz and 430–440MHz. *⁴ Guaranteed range 144–148MHz. *⁵ Guaranteed range 144–146MHz.

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SPECIFICATIONS FOR HANDHELD TRANSCEIVERS

	IC-91AD/A IC-E91	IC-T90A IC-E90	IC-T7H	IC-P7A IC-E7
Frequency coverage (Differs according to version, Unit: MHz)	IC-91AD/A (U.S.A.): Tx 144–148, 420–450* ¹ Rx (A) 0.495–999.990* ^{1*2} (B) 118–174, 350–470* ¹ IC-E91 (Europe): Tx 144–146, 430–440 Rx (A) 0.495–999.990* ³ (B) 118–174, 350–470* ³	IC-T90A (U.S.A.): Tx 50–53.995, 144–148, 430–450* ⁴ Rx 0.495–999.990* ^{2*4} IC-E90 (Europe): Tx 50–52, 144–146, 430–440 Rx 0.495–999.990* ⁵	U.S.A. Version Tx 144–148, 430–450* ¹ Rx 118–174, 400–470* ¹ Europe Version Tx/Rx 144–146, 430–440	IC-P7A (U.S.A.): Tx 144–148, 430–450* ¹ Rx 0.495–999.990* ^{1*2} IC-E7 (Europe): Tx 144–146, 430–440 Rx 0.495–999.990* ³
Dimensions (W×H×D; Proj. not included)	58.4×103×34.2 mm; 2 ⁵ / ₁₆ ×4 ¹ / ₁₆ ×1 ¹ / ₃₂ in	58×87×29 mm; 2 ⁹ / ₃₂ ×3 ⁷ / ₁₆ ×1 ⁵ / ₃₂ in	57×122×29mm; 2 ¹ / ₄ ×4 ¹³ / ₁₆ ×1 ⁵ / ₃₂ in with BP-180	47×81×28mm; 1 ²⁷ / ₃₂ ×3 ³ / ₁₆ ×1 ³ / ₃₂ in
Weight (approx.)	300g; 10.6oz with antenna and BP-217	280g; 9.9oz with antenna and BP-217	320g; 11.3oz with antenna and BP-180	160g; 5.6oz with antenna and BP-243
Output power (typical values)	5W, 0.5W at 7.4V DC	5W, 0.5W at 8.0V DC	6.0W, 0.5W at 13.5V DC	144MHz 1.5W, 0.1W 430(440)MHz 1.0W, 0.1W at 3.7V DC
Sensitivity (at 12dB SINAD)	DV 0.22μV typ. (at BER 1% with UT-121) FM 0.14μV/0.16μV typ. (144/430(440) MHz bands)	0.16μV typ. (50, 144, 430 (440) MHz bands)	Less than 0.18μV	Less than 0.18μV (144, 430 (440) MHz bands)

*¹ Guaranteed range 144–148MHz and 440–450MHz. *² Cellular blocked. *³ Guaranteed range 144–146MHz and 430–440MHz. *⁴ Guaranteed range 50–53.995MHz, 144–148MHz and 440–450MHz.

*⁵ Guaranteed range 50–52MHz, 144–146MHz and 430–440MHz. (A) means VFO A receiver, (B) means VFO B receiver.

	IC-V85 IC-V85E	IC-V82 IC-U82	IC-T3H IC-V8
Frequency coverage (Differs according to version, Unit: MHz)	IC-V85 (U.S.A.): Tx 144–148 Rx 136–174* ⁶ IC-V85E (Europe): Tx 144–146 Rx 136–174* ⁷	IC-V82 (U.S.A.): Tx 144–148 Rx 136–174* ⁶ IC-V82 (Europe): Tx/Rx 144–146 IC-U82 (U.S.A.): Tx 420–450* ⁸ Rx 400–479* ⁸ IC-U82 (Europe): Tx/Rx 430–440	IC-V8 (U.S.A.): Tx 144–148 Rx 136–174* ⁶ IC-T3H (Europe): Tx/Rx 144–146
Dimensions (W×H×D; Proj. not included)	56×110×34.4 mm; 2 ⁷ / ₃₂ ×4 ¹ / ₃₂ ×1 ¹ / ₃₂ in	54×139×36.7 mm; 2 ¹ / ₈ ×5 ¹⁵ / ₃₂ ×1 ⁷ / ₁₆ in	54×132×35 mm; 2 ¹ / ₈ ×5 ³ / ₁₆ ×1 ³ / ₈ in
Weight (approx.)	310g; 12.5oz with antenna and BP-227	390g; 13.8oz with antenna and BP-222N	350g; 12.3oz with antenna and BP-222N
Output power (typical values)	7W, 4W, 0.5W at 7.2V DC	IC-V82 7W, 4W, 0.5W IC-U82 5W, 2W, 0.5W at 7.2V DC	5.5W, 0.5W at 7.2V DC
Sensitivity (at 12dB SINAD)	Less than 0.2μV	0.16μV typ.	0.16μV typ.

*⁶ Guaranteed range 144–148MHz. *⁷ Guaranteed range 144–146MHz. *⁸ Guaranteed range 440–450MHz.

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Applicable U.S. Military Specifications

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