



**RMDR (Reciprocal Mixing Dynamic Range) of 110 dB\* (at 2 kHz)**

**Independent Dual Receivers Receive Two Bands Simultaneously**

**Superior Transmit Phase Noise Characteristics**

**DIGI-SEL Preselector for Main and Sub Bands**

**High-Speed, High-Resolution Real-time Spectrum Scope**

**Touch Screen and Multi-Dial Knob for Smooth Operation**

**DVI-D Digital Connector for External Display Connection**



\* At a 2 kHz offset frequency. Receive frequency: 14.2 MHz Mode: CW, IF BW: 500 Hz

**Find 7610 Tech Reports**



## HF/50 MHz TRANSCEIVER IC-7610

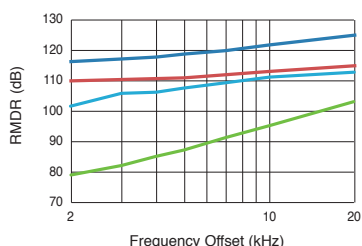
### Innovative RF Direct Sampling System Achieves 110 dB\* (typ.) RMDR

The RF direct sampling system directly converts the analogue signals to digital signals, and collectively puts the data through FPGA (Field-Programmable Gate Array) processing. The master clock uses a high precision VCXO (Voltage Controlled Crystal Oscillator) which excels in low-noise characteristics. This makes it possible to provide superior receive and transmit performance, extremely low phase noise as well as high RMDR (Reciprocal Mixing Dynamic Range).

\* At 2 kHz frequency separation.

#### RMDR Characteristics

\* Receive frequency: 14.2 MHz, MODE: CW, IF BW: 500 Hz



### Digital Pre-Distortion (DPD) for Clean and Linear Transmission

The DPD technology corrects the signal distortion from the final amplifier, by giving inverse distortion to the output signal at the earlier stage\*. This technology also works in combination with the IC-PW2 linear amplifier.

\* Not applied for non-linear modulation such as FM, FSK and MSK modes. The IC-7610 firmware version must be 1.4 or later. Optional OPC-2501 DPD feedback cable is required for connection with the IC-PW2.

### Independent Dual Receivers Receive Two Bands Simultaneously

The dual receivers are ideal for simultaneous monitoring of two bands and two modes. The sub receiver works independently of the main receiver.

### Superior Transmit Phase Noise Characteristics

Breaking with the tradition of mixing a carrier signal with a local oscillator, a Digital-Up-Conversion (DUC) is used to generate required frequencies by sampling in the Digital to Analogue Converter (DAC). The superior Phase Noise characteristics provide high purity transmit signals.

### DIGI-SEL Firmly Reduces Interfering Signals

Both main and sub receivers are equipped with DIGI-SEL (Digital Preselector) units. The DIGI-SEL has steeper skirt characteristics

than normal bandpass filters, so it rejects out of band strong interference, such as broadcast stations, and prevents inter-modulation distortion.



DIGI-SEL Unit

### High-Speed, High-Resolution Real-time Spectrum Scope

The real-time spectrum scope shows main and sub band conditions. It provides class-leading performance in resolution, sweep speed and a 100 dB of dynamic range. The waterfall screen enables you to find weak signals by showing the spectrum change over time. The Scroll mode automatically keeps the operating signal within the scope range.

### FFT Scope and Oscilloscope for Audio Observation

The audio scope function shows the FFT scope with waterfall and the oscilloscope of either transmit or receive audio. This function can be used to observe various AF characteristics such as microphone compressor level, filter width, notch filter and receive keying waveform in CW mode.

### Touch Screen and Multi-Dial Knob for Smooth Operation

The combination of the touch screen and the multi-dial knob offers quick and smooth operation.





## DVI-D Connector for an External Display Connection

Operating frequency, setting information and spectrum scopes can be observed on a large external display.

## High Sound Quality Speaker

The IC-7610's speaker offers comfortable sound quality with flat overall frequency response and loud and intelligible audio of the high-purity received signal. Insulators are placed between the speaker and chassis for preventing vibration noise.

## SD Card Slot and USB ports for Data Saving

For multi-operators using one rig, personal settings such as filter settings, Memory channels, and antenna settings, can be saved and loaded using a SD card or USB flash drive. TX Voice memories and RTTY/CW memories on the SD card or USB flash drive can be sent with a touch of a button.

## I/Q Signal Output

The I/Q signal output function\* enables you to derive digital IF signals from the I/Q output jack.

\* The IC-7610 firmware version must be 1.20 or later.

## Other Outstanding Features

**[Antenna and receiver]** • BNC type RX IN/OUT connectors • Built-in automatic antenna tuner • Two types of preamplifiers • 3 dB ~ 45 dB attenuator • IP+ function improves third order intercept point performance • RTTY demodulator and decoder • Digital twin PBT eliminates interference from adjacent signals

**[Transmitter]** • TX monitor function • All mode power control • VOX (Voice Operated Transmission) capability • Microphone equalizer and adjustable transmit bandwidth • 50 CTCSS tones

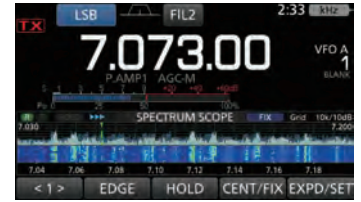
**[CW mode]** • FPGA-controlled CW keying waveform shaping • Multi-function electronic keyer • CW pitch control from 300 Hz to 900 Hz • Auto repeat function • Contest serial number counter • Normal or short morse number style • Double key jack system • Full

break-in and semi break-in • CW auto tuning • APF (Audio Peak Filter) function adjustable filter position, width, type and AF level

**[Operation]** • 7-inch wide colour TFT LCD • Simplified IP remote control capability with the optional RS-BA1 Version 2 • Memo pad stores up to 10 operating frequencies and modes • Quick Split function • Quick Dualwatch function • RF gain and squelch control with a knob • RIT and  $\Delta$ TX variable up to 9.999 kHz • UTC/local clock and timer function • 1 Hz pitch tuning and display • 101 Memory channels • Dial lock function • Adjustable main dial friction • External speaker jacks for main and sub receivers • Multi-function meter • Auto tuning step function • AGC control for fine tuning of the AGC time constant • Screen saver function



Experience  
in video



Spectrum scope + Waterfall



FFT scope/Oscilloscope



Touch screen interface

## HF/50/70 MHz TRANSCEIVER IC-7300

Class Leading Real-time Spectrum  
Scope with Waterfall Function

RF Direct Sampling System

Suitable for Starting FT8 Mode

### Class Leading Real-time Spectrum Scope with Waterfall Function

The IC-7300's real-time spectrum scope is class-leading in resolution, sweep speed and dynamic range. While listening to received audio, you can check the real-time spectrum scope and quickly move to an intended signal.

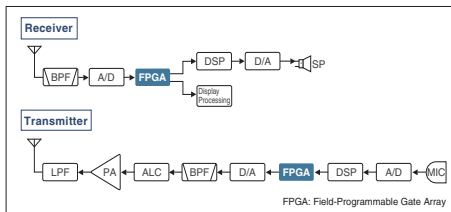
#### Real-time Spectrum Scope Specifications

	IC-7300
Scope system	FFT (Fast Fourier Transform)
Span width	5 kHz–1000 kHz
Resolution *	1 pixel minimum (approximately)
Sweep speed	Max. 30 frames/second (approximately)
Waveform display area (vertical axis)	80 dB
Other functions	Waterfall function, Audio scope function

\* Number of pixels shown at the 60 dB level, when receiving a signal.

### RF Direct Sampling System

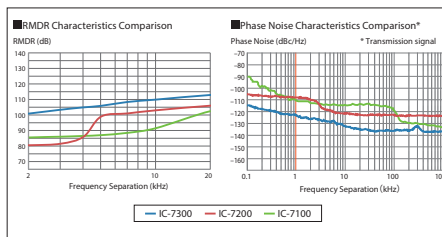
The IC-7300 employs an RF direct sampling system. RF signals are directly converted to digital data and processed in the FPGA (Field-Programmable Gate Array), making it possible to simplify the circuit construction. This system is the new benchmark technology making an epoch in amateur radio.



### Class Leading RMDR and Phase Noise Characteristics

The IC-7300's RMDR is improved to about 100 dB\* (typical value) and Phase Noise characteristics are improved about 20 dB (at 2 kHz frequency separation) compared to the IC-7200. The superior Phase Noise characteristics reduce noise components in both receive and transmit signals.

\* At 2 kHz frequency separation (received frequency: 14.2 MHz, MODE: CW, IF BW: 500 Hz)



### One-Touch FT8 Mode Preset

Preset memory offers smooth FT8 mode operation. You can start FT8 mode operation only by selecting [FT8] from PRESET menu. Up to five preset memories can be stored.



### 15 Discrete Band-pass Filters

The IC-7300 has 15 discrete RF bandpass filters. The RF signal is only passed through one of the bandpass filters, while any out of range signals are rejected. High Q factor coils are used to minimize the loss in the RF band-pass filters.

### Superior Signal Quality

The RF direct sampling system is naturally superior at signal linearity and noise immunity by digitally processing the signal from RF to AF. Mathematical frequency conversions within the FPGA drastically improve the signal purity. Thanks to these features, though it is a compact radio, the IC-7300 enjoys exceptionally clear and rich sound which normally can only be expected from a higher class radio.

### Large Touch Screen Colour TFT LCD

The large 4.3 inch colour TFT touch LCD offers intuitive operation. Using the software keypad, you can easily set various functions and edit memory contents.

### Other Features

- Audio scope function
- Built-in automatic antenna tuner
- Multi-dial knob for smooth operation
- SD card slot for saving data
- New speaker unit design
- HM-219 hand microphone supplied
- A large and effective cooling fan system
- Multi-function meter
- 101 Memory channels (99 regular, 2 scan edges)
- Optional RS-BA1 Version 2 IP remote control software
- "IP+" function improves the third order intercept point (IP3) performance
- CW functions: Full break-in, CW reverse, CW auto tuning
- 70 MHz operation is possible in the European transceiver version



# Multi-Band

**DIGITAL**



Perfect companion of the IC-7300



Menu screen 1



Menu screen 2

## 144/430/1200 MHz ALL MODE TRANSCEIVER IC-9700

All Mode, Tri-band Transceiver,  
with Built-in 1200 MHz

RF Direct Sampling System

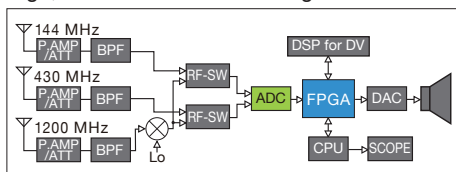
Real-time Spectrum Scope  
with Waterfall Display

### All Mode, Tri-band Transceiver with Built-in 1200 MHz

The IC-9700 is an all mode Tri-band transceiver, covering 2 m, 70 cm, and 23 cm. In addition to the traditional SSB, AM, FM, CW, and RTTY modes, the transceiver also incorporates D-STAR DV and DD modes. Satellite mode is also built-in!

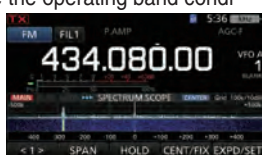
### RF Direct Sampling System

The RF Direct Sampling system, for 144 MHz and 430 MHz, is utilized in the IC-9700. The outcome is that the signal purity is very high, and clear audio can be generated.



### Real-Time Spectrum Scope and Waterfall Display

The IC-9700 has a real-time spectrum scope and waterfall display comparable to an HF high tier transceiver. With the high-speed spectrum scope, you can instantly see the operating band condition. The Scroll mode automatically keeps the operating signal within the scope range.



### Independent Receiver, Full Duplex Operation

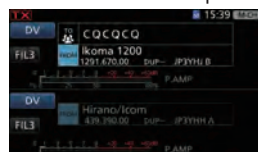
The IC-9700 can simultaneously receive on two different bands, and two different modes. This function can be a significant advantage when participating in contests or searching for weak signals. Furthermore, the IC-9700 is Full Duplex, which enables you to transmit on the main band while receiving on the sub band.

### Newly Designed Power Amplifier

The power amplifier outputs stable power with high efficiency (144/430/1200 MHz band: 100/75/10 watts). The cooling system prevents the PA from overheating, even when operating for a long time.

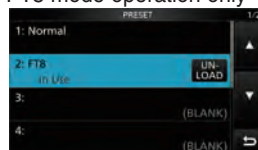
### D-STAR Operation Friendly Functions

The IC-9700 has the D-STAR Repeater (DR) function that can be simultaneously used on both the Main and Sub bands to listen to two separate DV signals. Moreover, by using the DD mode, you can browse the Internet through a repeater station.



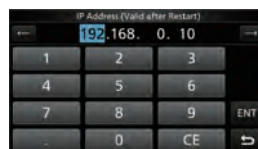
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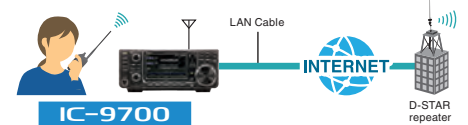
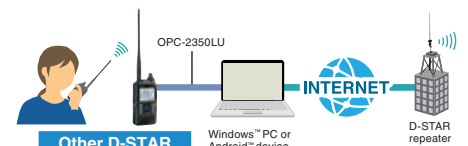


### Built-in DV Gateway Functions

A static IP address can be set to the transceiver. If you set a global IP address to your router, you can use the Terminal mode or Access Point mode without any software applications.



### Connection example (Access Point mode)



\* These functions can be used only when using through D-STAR G3 repeater.  
\* See the instruction manual that comes with the transceiver when operating.

### Comprehensive Menus for Satellite Operation

The Normal and Reverse Tracking Functions simultaneously increase or decrease both the downlink and uplink frequencies in the same steps. The AFC Function follows the frequency change caused by the Doppler effect, thus maintaining a stable receive condition. The IC-9700 has 99 satellite memory channels.

### Audio Scope Function

Making good use of the Audio Scope function, various audio characteristics, such as microphone compressor level, filter width, notch filter width, and keying waveform in the CW mode can be monitored. Transmit or receive audio can either be displayed on the FFT scope and the oscilloscope.

### Other Features

- UDP Hole Punch function
- Photo Sharing function - send, receive and display photos through the radio
- Loud and clear audio
- Compatible with the RS-BA1 Version 2 and CI-V commands
- Built-in server function
- Digital Twin PBT
- CW functions: Full break-in, CW memory keyer, CW reverse, CW auto tuning
- SD card slot
- TX/RX audio recording
- Screen capture ...and more

Experience  
in video



DIGITAL



Controller



RF Unit

144, 430, 1200, 2400, 5600 MHz +10 GHz  
ALL MODE TRANSCEIVER

# IC-905

All Mode with 144, 430, 1200,  
2400, 5600 MHz + 10 GHz

Ultimate Frequency Stability with  
GPS-Controlled Oscillator

Wideband Span Real-time Spectrum  
Scope

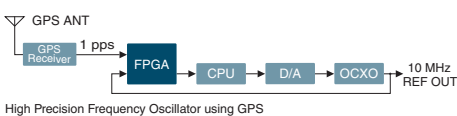
## Explore the World of Microwave

The IC-905 is the industry's first microwave rig in the 144, 430, 1200, 2400, 5600 MHz and 10 GHz\* bands. Multi-mode operation including SSB, CW, AM, FM, RTTY, D-STAR DV/DD, and FM-TV (Amateur TV). Output power is 10 W on 144, 430, 1200 MHz, 2 W on 2400, 5600 MHz, and 0.5 W on 10 GHz.

\* CX-10G is required for 10 GHz operation.

## GPS-Controlled Oscillator for Ultimate Frequency Stability

Frequency accuracy and stability are required for SHF band operation. Even with a high-performance OCXO, the frequency gradually changes due to temperature and aging. To solve this problem, the IC-905 uses a high-precision 1 pulse-per-second (1 PPS) clock signal from an internal GPS (GNSS) receiver to enable advanced frequency control.



## Optional 10 GHz Transverter, CX-10G

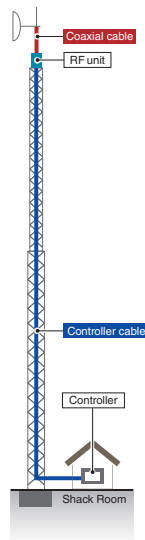
The CX-10G transverter provides 10 GHz operation by converting from a 2400



MHz IF signal. 10 GHz operation becomes more approachable and easier to work.

## Separate Controller and RF Unit

The IC-905 is the industry's first super efficient microwave base station with the RF unit designed to be at the base of the antenna, rather than in the shack. This design eliminates signal loss due to costly, long coax feed line runs found in legacy SHF designs. Optional 50 m (OPC-2509) or 20 m (OPC-2513) controller cable is available with the IC-905.



## Less Signal Loss

With the RF unit mounted at the antenna, transmit and receive signals are at their maximum efficiency as the coax feed line is measured in inches rather than feet, keep signal loss to a minimum.

## Power Supplied through the Controller Cable

The DC power is supplied from the controller to the RF unit through the controller cable, making it possible to supply power with a low loss. Moreover, optional CX-10G's power is supplied from the IC-905 RF unit.

## Wideband 50 MHz Span Real-time Spectrum Scope

A high-performance real-time spectrum scope and waterfall display are built in. The real-time spectrum scope can be adjusted for Center, Fixed, and Scroll mode, and it covers a wide bandwidth of up to 50 MHz span.

## Full D-STAR Functions

DV, DD mode, DR function, Terminal mode, and Access Point mode enable easy use of D-STAR. It is also possible to send, receive, and view received pictures with the IC-905.

## ATV (Amateur TV) Mode

The IC-905 is compatible with the ATV (FM-TV, NTSC, PAL, or SECAM) mode. With an analog camera connected, the IC-905 can transmit video, and receive a real-time video. Furthermore, received videos can be monitored on an external display through the AV-output.



## A Variety of Optional Antennas

Optional Collinear antennas for 2400 MHz, 5600 MHz, and 10 GHz are available. Additionally, a high-performance parabolic antenna for 10 GHz is also available.

Collinear antenna  
AH-24 for 2400 MHz  
AH-56 for 5600 MHz  
AH-100 for 10 GHz



Parabolic antenna  
AH-109PB for 10 GHz  
The CX-10G can be installed in the back of the antenna



## Other Features

- SD card slot • USB Type-C™ connection for PC and mobile device • Power Amp thermal protection function • ΔTX, RIT and AFC (Automatic Frequency Control) function
- One-Touch FT8 mode preset • Quick Data mode setting for SSTV, RTTY, PSK31, JT65B and FT8 • AMPS hole pattern and 1/4-20 tripod mount for controller unit • Two call channels for each band (2 × 6 bands)
- 500 memory channels divided into up to 100 groups • 50 scan edges, 2500 repeater memories and 300 GPS memories



Experience  
in video



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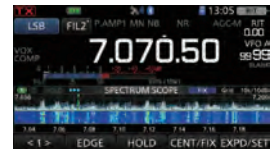


Bluetooth®



Rugged  
MIL-STD 810

Terminal Mode  
DV Gateway  
Access Point Mode



Display example of real-time spectrum scope and waterfall



Touch screen display



Menu screen example



## HF/50/144/430 MHz MULTIMODE PORTABLE TRANSCEIVER

# IC-705

“Base Station” Performance  
in the Palm of Your Hand

RF Direct Sampling System

Real-Time Spectrum Scope  
and Waterfall Display

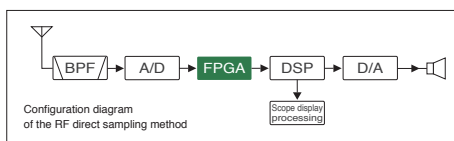
### HF to UHF Multimode

From HF to 50/144/430 MHz, you can enjoy a variety of bands in the D-STAR DV, SSB, CW, RTTY, AM and FM modes. The IC-705 receives continuously from 30 kHz through the 144 MHz band. You can also enjoy FM broadcast and air band reception.

### RF Direct Sampling System

The IC-705 employs an RF direct sampling system, where RF signals are directly converted to digital data. Then processed in the FPGA (Field-Programmable Gate Array), making it possible to simplify the circuit construction as well as reducing internal noise that can mask weak signals.

\* The down-conversion IF sampling method is used for 25 MHz and above.



### Real-Time Spectrum Scope and Waterfall Display

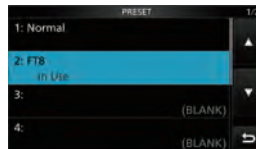
Performance seen with the IC-7300 and IC-9700 spectrum scope is at the tip of your fingers for field operation. You can quickly see band activity as well as finding an open frequency. The Scroll mode automatically keeps the operating signal within the scope range.

### Large Touch Screen Colour Display

The large 4.3" colour TFT touch LCD, same size as the IC-7300 and IC-9700, offers intuitive operation of functions, settings, and various operational visual aids, such as the band scope, waterfall, and audio scope functions.

### One-Touch FT8 Mode Preset

Preset memory offers smooth FT8 mode operation. You can start FT8 mode operation only by selecting [FT8] from PRESET menu. Up to five preset memories can be stored.



### Compact and Lightweight Design

“Base Station” performance in the palm of your hand! You will quickly see how this compact radio is rugged, for outdoor use, in a small, lightweight package, weighing approximately 1.1 kg.



### Li-ion Battery Pack or 13.8 V DC External Power Supply

Utilizing the high capacity Li-ion battery from the ID-52E series handheld handheld radios. A 13.8 V DC external power supply can be used for operation and charging of the battery.

### Maximum Output Power 5 W (Battery), 10 W (13.8 V DC)

In portable mode, the IC-705 has the maximum output power of 5 W from the BP-272 or BP-307 which can last approximately 3 or 4.7 hours\*. This is perfect for true 5 W QRP as well as the 0.5 W QRPp operations. Once you setup with a 13.8 V DC power source, you have up to 10 W.

\* TX : RX : Standby = 1 : 1 : 8 (The Power Save function ON, in the FM mode)

### WLAN/Bluetooth® Technologies

Utilize WLAN/Bluetooth® technologies for linking and remote control, for true wireless operation. The VS-3 headset (optional) enables more comfortable operation via Bluetooth®.

### GPS Functions

An internal GPS receiver and antenna enhance your operations by providing location logging\*, RX/TX locations via D-PRS, “Near Me” repeater search/scan, QSO recording with metadata\*, and internal clock synchronization.

\* A microSD memory card is required.

### D-STAR Functions

Enjoy the latest DV mode features with the IC-705. Have direct access to the D-STAR network with Terminal/Access point modes. Additionally, the IC-705 has the Photo Sharing feature introduced with the IC-9700. Share photos, without the need of a computer with other users.

### Other Features

- microSD card slot
- USB micro-B connector
- Programmable speaker microphone, HM-243
- Optional antenna tuner, AH-705 (See page. 7)
- Optional backpack, LC-192, ideal for field operations

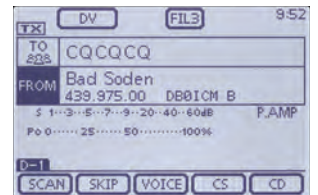


LC-192 Multi-function backpack

For more information about  
the Multi-Function  
Backpack, LC-192



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DR (D-STAR Repeater) function operation



Near repeater function



SD card slot for saving data

## HF/VHF/UHF TRANSCEIVER IC-7100

Intuitive Touch Screen Interface

Controls at Your Fingertips  
with an Angled Display

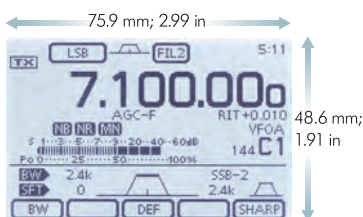
HF, 50/70/144/430 MHz Multi-band

### Touch Screen Control with an Angled Display

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

### Resistive Touch Screen

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

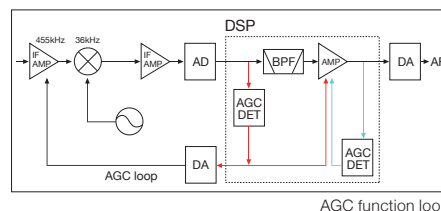


### HF, 50/70/144/430 MHz Multi-band

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

### Digital Features Controlled by the IF DSP

A high-performance 32-bit floating point IF DSP delivers rich digital signal processing features, including digital IF filter, digital twin PBT, noise reduction, CW auto tune, etc. Those digital features work on all bands from HF to V/UHF bands.



AGC function loop

### Built-in RTTY Functions

The built-in RTTY decoder enables you to instantly read an RTTY message on the display. Your RTTY operating log, both TX and RX, can be recorded on an SD card. The eight RTTY memories can memorize and transmit often used RTTY sentences.

### D-STAR DV Mode (Digital Voice + Data)

The IC-7100 provides D-STAR (Digital Smart Technologies for Amateur Radio) 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.

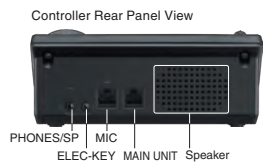
### Repeater Search Function

With an external GPS receiver\*, this function searches nearby D-STAR repeaters from the internal database, based on your location.

\* External GPS receiver or manual position data input required.

### 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.



### SD Card Slot for Saving Data

When used with an SD card, the SD card can store various contents, including voice memory, Memory channels, and D-STAR repeater memories. Other personal settings can be saved to the SD card and loaded into the transceiver.

### Other Features

- DSP controlled AGC function loop
- Easy vehicle mounting with the optional MBF-1
- RS-MS1A remote control software for an Android™ devices (Send and receive pictures only)
- Optional RS-BA1 Version 2 IP remote control software
- 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 function repeater channels
- 4 TX voice memories
- ±0.5 ppm frequency stability
- Auto reply function\*
- Digital callsign squelch (DSQL) and digital code squelch (CSQL)\*
- 12.5 kHz IF output for DRM (Digital Radio Mondiale) receive

\* D-STAR DV mode only



# Linear Amplifier



## HF/50 MHz 1 kW LINEAR AMPLIFIER IC-PW2

High Power and Full Duty Cycle Operation

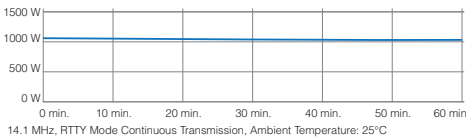
Increased Linearity and Clean Transmission

2 x 6 Automatic Antenna Selector

### High Power and Full Duty Cycle

The IC-PW2 uses new 65 V LDMOS power transistor and a high efficiency power supply. 1 kW output and 1-hour continuous transmission can be achieved with 200 V AC input\*. It can be operated at full power as soon as power is turned ON. (\* 180-264 V AC required)

Output Power (Continuous Transmission)



### Detachable Controller

A remote control cable enables the amplifier to be mounted away from the radios for a big station installation, in a small shack space. The 4.3 inch colour screen is a touch screen with a graphical user interface. Connected antennas are graphically shown on the display for easy recognition.

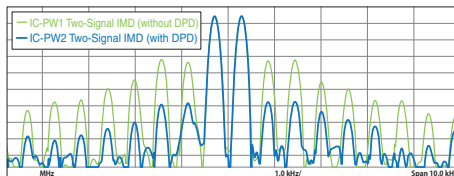


Antenna select screen example

### Increased Linearity & Clean Transmission

The IC-PW2 has succeeded in realizing the world's first DPD as a linear amplifier for amateur radio in combination with the IC-7610. This technology corrects the signal distortion from the IC-PW2, by applying inverse distortion to the output signal from the IC-7610 exciter in advance\*.

\* Not applied for non-linear modulation such as FM, FSK and MSK modes. Optional OPC-2501 DPD feedback cable is required for connection with the IC-7610.



### 2 x 6 Automatic Antenna Selector

Two radio input connectors and six antenna connectors provide fully automatic antenna switching capabilities. Each antenna can be switched independently in conjunction when changing bands on the radios. Moreover, even when transmitting on one radio, the other radio can receive on a different band with the Transmitter lockout function. As a result, Single Operator Two Radios (SO2R) operation in a contest can be realized with one IC-PW2.

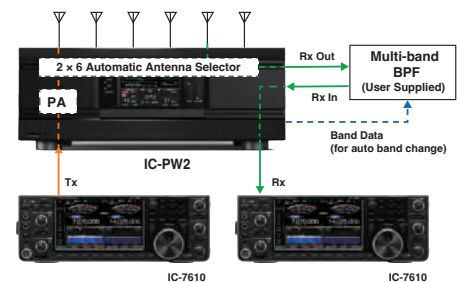


### RX In/Out Connectors for Multi-band BPF

User supplied bandpass filters (BPF), preamps and attenuators can be connected to the [Rx In/ Out] connectors. When two radios are used with the IC-PW2, one multi-

band BPF can be shared with these radios by switching the receiving radio. In addition, the band switching of multiband BPF can be controlled from the band data output connector.

One Multi-band BPF Configuration Example (New from IC-PW2)



### Other Features

- High-efficiency and low noise cooling system
- Various error detection circuits protect internal components
- PC remote control operation\*1 through a LAN or Internet
- An SD card slot for saving settings and firmware updates
- Built-in automatic antenna tuner
- Remote AUX jack for controlling an automatic telescopic antenna
- Antenna quick select function temporarily set to the antenna connector such as for a dummy load
- Transmitter Lockout function\*2 for the SO2R operation
- With current Icom radios, you can get the full performance of the IC-PW2 with wide compatibility
- Effortless operation, even when connected to non-Icom radios

\*1 Software is in planning at this stage.

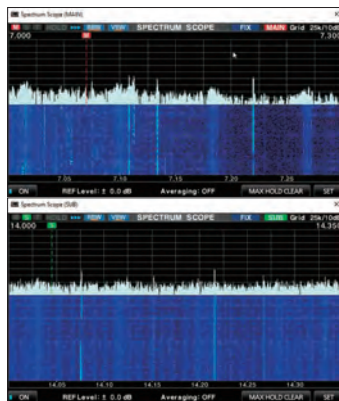
\*2 For IC-7300/IC-7610/IC-7851

### REAR PANEL VIEW



This picture shows the panel layout, but cables are not shown.

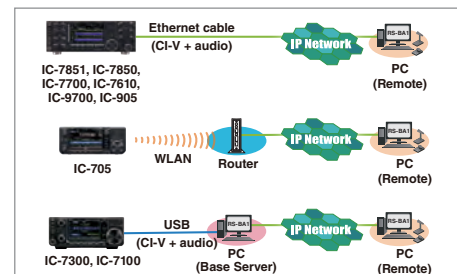
# Remote Control & Antenna Tuners



Dual spectrum scope example

## Low Latency, High Quality Audio Over an IP Network

The RS-BA1 Version 2 offers real-time operation with low latency, high quality audio. You can use the transceiver installed in another room using your home network, or even from a remote location over the Internet\*.



\* A static public IP address or Dynamic DNS is required to the base station (Server) PC, when you configure the remote control system through the Internet.

## Optional RC-28 Remote Encoder

The optional RC-28 USB remote encoder brings a hardware dial/transmit function for realistic dial operation.



Note for original version RS-BA1 users: Free upgrade service from RS-BA1 to RS-BA1 Version 2 is not available. To obtain the new features in the RS-BA1 Version 2, the purchase of a new software package is required.

## IP REMOTE CONTROL SOFTWARE

# RS-BA1 Version 2



Dualwatch Operation with Dual Spectrum Scopes

Covers Most Functions and Modes

Optional USB Remote Encoder RC-28

## Dualwatch Remote Control Operation

The RS-BA1 Version 2 provides IP remote control capability. The dualwatch operation and dual spectrum scopes with the waterfall functions\* can be used on your remote PC. Single band transceiver can also be used with Version 2.

\* Only for the IC-7851, IC-7850 and IC-7610.

## Covers Most Functions and Modes

Most functions and modes of your transceiver, including interference rejection functions and IF filter settings, can be controlled using the CI-V commands. The RIT tuning knob and  $\Delta$ TX functions are added from Version 2.



## AUTOMATIC ANTENNA TUNER

# AH-730

1.8 ~ 50 MHz Frequency Coverage with 7 m or longer wire antenna

2 ~ 3 Seconds High Speed Tuning

IPX4 Water Resistant

## Wide Frequency Coverage

With a 7 m or longer wire element, all band matching is possible from the 1.8 MHz band to the 50 MHz band.

## Minimum RF Output for Tuning

The AH-730 emits only 0.3 W of RF output from the antenna during tuning operation.

## Tuning Memories

The AH-730 has 45 memories to store the minimum SWR settings. When re-tuning the same frequency, matching can be achieved in about 1 second.

• Compatible with IC-7610, IC-7300 and IC-7100



## AUTOMATIC ANTENNA TUNER

# AH-705

1.8 ~ 50 MHz Frequency Coverage with 30 m or longer wire \*

SO-239 Antenna Connector for 50  $\Omega$  Antenna such as Dipole or Yagi

PL-259 Plug or Terminal Connector Supplied for a Long Wire Antenna

• Alkaline Batteries or External 13.8 V DC\*, 2-way Power Sources

\* 13.8 V DC should be taken directly from an external power supply, not through the IC-705.

• Latching Relays Used for Saving Power Consumption

• 190 x 105 x 40 mm, 450 g\* Compact Design  
\* Battery cells are not included.

• Compatible with IC-705



Wire antenna installation example



50  $\Omega$  antenna example

\* 3.5 ~ 50 MHz coverage with 7 m or longer antenna



DIGITAL



## 2.3 inch Large Colour Display

The ID-52E is equipped with a colour display. The display size is increased to 2.3 inches, 320 x 280 pixels to achieve excellent viewability. The display background colour is selectable from black and white.

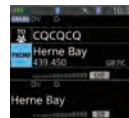


Black and white background example

## Digital DV/DV Dualwatch

The ID-52E's Dualwatch function can receive two DV signals (V/V, U/U, V/UHF bands) at the same time\*.

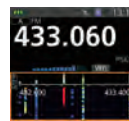
\* AM/AM mode Dualwatch is not possible.



V/U, V/V Dualwatch example

## Waterfall Display

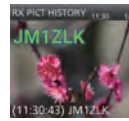
You will have an overview of the band conditions at a glance. The waterfall display shows the changes of signal level in chronological order.



Waterfall display

## Picture Sharing Functions

The ID-52E has the popular Picture Sharing functions introduced in the IC-9700 and IC-705. Share pictures with other users and see received pictures on the colour display. Pictures taken on a smart device can be wirelessly transferred to the ID-52E through Bluetooth®.



Picture sharing example

## Bluetooth® Connection

You can easily connect to a smart device through Bluetooth®. The RS-MS1A for Android™ or RS-MS1I for iOS™ can wirelessly control the ID-52E.

## Terminal/Access Point mode\*1 \*2

Connect the ID-52E to the Internet through a PC or Android™ device. The Terminal mode and Access Point mode enable you to access the D-STAR network, even from areas where no D-STAR repeater is accessible.

### Terminal mode



### Access point mode



\*1 The RS-MS3W for Windows™ PC or RS-MS3A for Android™ device required. USB data cable is separately required.

\*2 Compatible with Icom RS-RP3 gateway software only.

## Other Features

- Independent FM broadcast receiver
- DV/FM repeater search function
- DV fast data mode
- Integrated GPS receiver
- microSD card slot
- USB micro-B connector
- IPX7 waterproof construction
- 5 W output power and 750 mW loud audio
- Voice recording functions
- CS-52 software can be downloaded from the Icom website

## VHF/UHF DIGITAL TRANSCEIVER ID-52E

2.3 inch Large Colour Display

V/V, U/U, V/U Dualwatch  
Including DV/DV Mode

Picture Sharing Functions  
& Bluetooth® Connection

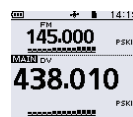
DIGITAL



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

The Dualwatch function monitors the VHF/VHF, UHF/UHF and VHF/UHF bands simultaneously\*.

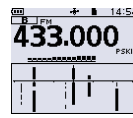
\* DV/DV mode cannot be listened at the same time.



V/U, V/V Dualwatch example

## Waterfall Display

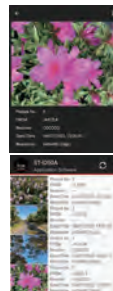
You will have an overview of the band conditions at a glance. The waterfall display shows the changes of signal level in chronological order.



Waterfall display

## Picture Sharing Functions

You can share pictures with each other in the DV mode. With a picture utility software, ST-ID50A/W, pictures on your smart device or PC can be used for picture sharing through a USB cable connection. You can enjoy sharing pictures together with voice messages.



## Built-in GPS Receiver

Auto Position Reply function, GPS Logger function, Near Repeater function and Grid Locator are available.

## Build Your Own Internet Gateway

If there are no D-STAR repeaters in your area, connecting the ID-50E to a Windows™ PC or an Android™ device, to an the Internet gateway (using Terminal mode and Access Point mode) enables you to access the D-STAR repeater network. Connect the ID-50E to the Internet through a Windows™ PC or an Android™ device.

## USB Type-C™ Connector

The ID-50E has a USB Type-C™ connector which is widely used in the industry. The Multi-function USB port can charge the battery pack\*, and has a data host function for connecting with various device.

\* USB PD is not supported.

## Other Features

- VHF airband and FM broadcast receiver
- DV/FM repeater search function
- DV fast data mode
- microSD card slot
- IPX7 waterproof construction
- 5 W output power and 750 mW loud audio
- Voice recording functions
- CS-50 software can be downloaded from the Icom website
- External DC power jack
- Battery packs can be shared with the IC-705, ID-51, ID-52 series

## VHF/UHF DIGITAL TRANSCEIVER ID-50E

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

Picture Sharing Functions  
with ST-ID50A/W

Built-in GPS Receiver



VHF/UHF DUAL BAND FM TRANSCEIVER

## IC-T10

5 W of Output Power  
on Both VHF and UHF Bands

1500 mW Powerful Audio

IP67 Waterproof and MIL-STD 810G

### 1500 mW Powerful Audio

In combination with a BTL amplifier and Icom's custom speaker, the IC-T10 delivers 1500 mW (typ.) powerful audio even in noisy environments. In addition, the optional HM-222HLWP also provides 1500 mW (typ.) loud audio from the attached speaker-microphone.



1500 mW powerful audio



Optional HM-222HLWP

### IP67 Waterproof and Dust-Tight

The IC-T10 can withstand submersion in 1 m depth of water for 30 minutes. This rugged construction provides dust-tight protection, making it suitable for outdoor operation.



### 11/10 Hours of Long Battery Life\*

With supplied 2400 mAh (typ.) large capacity BP-280 battery pack, the IC-T10 can use the radio for up to 11/10 hours\*

\* VHF/UHF with external speaker-mic rated audio.  
TX:RX:Standby = 1:1:8 (60: 60: 480 seconds)

### FM Broadcast Receiver

The IC-T10 covers 136 ~ 174, 400 ~ 479 MHz and 76 ~ 108 MHz\*. You can listen to a FM broadcast station.

\* EUR version. Receiver working range.

### The Home Button on the Top Panel

The IC-T10 has the home button on the top of the panel. When pushing the home button, you can quickly access the often used channel.

### Download Free Programming Software

The CS-T10 programming software for Windows™ PC can be download from the Icom Website. Editing memory channels and other settings can easily be made from your PC.

### Other Features

- User programmable side buttons for quick access for user-selected functions
- Optional AD-149H power supply adapter allows to use the radio by external DC power
- BC-213, rapid charger and AC adapter are supplied
- CTCSS/DTCS code for repeater, tone squelch and pocket beep operation
- 16 DTMF autodial memories
- FM narrow mode
- Priority, Program, Memory, Skip, Tone and other useful scan capabilities
- VOX capability for hands-free operation
- Direct-conversion system eliminates IF stages
- 200 memory channels, 2 Call channel and 6 scan edges



**DIGITAL**

**Bluetooth®**  
(Optional UT-133A required)

Rugged  
**MIL-STD 810**

**GPS**



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

MAIN		DV	19:40	+	DV	SUB
DUP-						
TO	CQCCQ					CQCCQ
FROM	Herne Bay 145.66200	GB71C				FROM Herne Bay 439.450
						GB71C B
H						
D-1	RX>CS	CD	CS	SCAN	MONI	

DV/DV Dualwatch (DR function) example

\* Main band audio has priority if two DV signals are received at the same time.

## DV/FM Repeater Search Function

The DV/FM repeater search 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 location information.

\* To use the repeater search function, the position data of the repeater is required.

## Other Features

- SD card slot
- VS-3 Bluetooth® headset
- RS-MS1A Android™ application
- DV fast data mode
- 50 W output power
- Repeater memory channels increased to 1500
- CTCSS and DTCS with Split tone function
- Sub band mute auto
- D-PRS functions
- Convenient memory contents management using CSV format
- Speech function announces the operating frequency, mode and received call sign (DV mode)
- Independent main, volume and SQL knobs for A/B bands
- AM airband Dualwatch
- Download-free programming software, CS-5100
- 1750 Hz tone burst

## VHF/UHF 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 × 128 pixels) responds naturally to the touch – allowing you to change settings, enter frequencies and edit Memory channels with ease.



Vehicle installation example (Using optional MBF-1 mount base and MBA-2 controller bracket)

## Integrated GPS Receiver

The integrated GPS receiver shows your own location, course, speed and altitude on the display. The GPS location information can be used for exchanging location reports, tracking the GPS log, and more.

**Bluetooth®**  
(Optional UT-133A required)

Rugged  
**MIL-STD 810**



## Optional VS-3 Bluetooth® Headset

The optional VS-3 Bluetooth® headset can wirelessly control the IC-2730E with three programmable keys and a PTT button. It also provides VOX operation for hands-free communication.

\* Optional UT-133A Bluetooth® unit must be installed in the IC-2730E.

## Easy Controller Mounting with the Optional MBF-1

The combination of the optional MBF-1 suction cup mounting base and MBA-5 controller bracket provides easy tilt and swivel adjustments. The large suction cup can be mounted on flat surfaces, and can be easily removed.

## Other Features

- Controller attachment to the main unit with optional MBA-4
- 50 W of output on VHF/UHF
- Built-in CTCSS and DTCS tones with split tone functions
- Wide band receiver (118-174 and 375-550 MHz)\*
- HM-207 remote control microphone
- CS-2730 Free download PC programming software
- Versatile scanning capability
- Squelch delay and squelch attenuator
- Sub band auto mute function
- Sub band busy beep function
- Auto power off
- 16 DTMF auto dial memories
- CI-V remote control capability (through the OPC-478UD)

\* Receiver range differs, depending on the version.

## VHF/UHF DUAL BAND TRANSCEIVER IC-2730E

50 Watts of Output Power on Both VHF and UHF Bands

VHF/VHF, UHF/UHF Simultaneous Receive

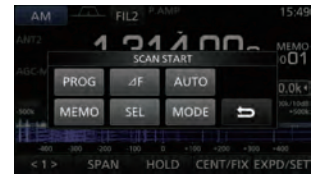
Optional Wireless Remote Control Bluetooth® Headset VS-3

## VHF/VHF, UHF/UHF Simultaneous Receive

The IC-2730E provides VHF/VHF, UHF/UHF simultaneous receive capability, as well as VHF/UHF receive. A simple one-touch of a button enables you to change between the main (transmit) band and sub band.

## Independent Controls for Each Band

Operating two bands simultaneously is very simple with the symmetric layout with a wide LCD display showing both band settings in an easy to read, side by side format. Various operations, including frequency tuning, is straight forward and smooth.



Scan setting screen



Function menu for touch screen



Pop up menu appears by pushing DIAL B

## COMMUNICATIONS RECEIVER

# IC-R8600

0.01 ~ 3000 MHz Super Wideband

Decode Digital Protocols (P25, NXDN™, dPMR™, D-STAR, DCR)

Real-Time Spectrum Scope with Waterfall

### 0.01 ~ 3000 MHz Super Wideband Coverage

The IC-R8600 decodes various digital protocol signals including P25 (Phase 1), NXDN™, dPMR™, D-STAR, Japanese DCR (Digital Convenience Radio). It also receives conventional analogue signals such as USB, LSB, FSK, CW, AM, S-AM (Synchronous-AM), FM and WFM modes, covering 10 kHz to 3 GHz wideband in 1 Hz steps.

### Software Demodulation in FPGA Processing

The IC-R8600 utilizes FPGA (Field Programmable Gate Array) and DSP units for demodulation, decoding and most of signal processing. Direct HF signals and intermediate frequency signals, which are converted from VHF/UHF signals, are digitized in a 14-bit A/D converter and transferred to the FPGA and DSP for optimal processing. The high-rate 122.88 MHz sampling frequency used for the A/D converter results in superior aliasing and image reception reduction.



FPGA

### Superb Receiver Performance

The IC-R8600 has 11 discrete RF band-pass filters in the HF bands and 13 band-pass filters in the VHF/UHF bands. To prevent overflow, only the intended signal is passed, while any out of range strong interference signals are rejected. The IC-R8600 provides +30 dBm IP3 and 105 dB dynamic range at 14.1 MHz. IP3 performance is +10 dBm at 144 MHz and 0 dBm at 430 MHz.

### Variety of Scan Functions

A variety of scan functions effectively and thoroughly search for desired stations. The IC-R8600 scans up to 100 channels per second in the memory scan mode.

- Program scan/Fine program scan • f $\Delta$ scan/ $\Delta$ f fine scan • Priority scan • Memory scan
- Selected memory scan • Selected mode memory scan • Auto memory write scan

### Real-time Spectrum Scope with Waterfall Function

The high-resolution real-time spectrum scope provides class-leading performance in resolution, maximum 30 frames per second\* fast sweep speed,  $\pm 2.5$  MHz wide scope span (display range) and 110 dB of dynamic range (at  $\pm 2.5$  kHz span). The waterfall screen enables you to find weak signals by showing the spectrum change over time.

(\* Approximate)

### Quick, Smooth and Intuitive Operation

To efficiently acquire intended signals, the IC-R8600 user interface provides quick and accurate operation. The large 4.3-inch colour display, with touch screen function, is configured to collect operating information. By tapping indications and icons on the screen, the setting menu will pop up and parameters can easily be adjusted.

### SD Card Slot for Receiver Recorder

The recorder function can record received audio onto an SD card in WAVE format. The recorded voice audio can be played back on the receiver or a PC. When a 32 GB SD card is used, up to 270 hours of recording is possible. In addition, the screen capture function saves a snap shot of the screen in PNG or BMP format on the SD card.

\* An SD card is required.

### Optional IP Remote Control Software, RS-R8600

The optional RS-R8600 software enables you to listen to received audio and control most of functions through an Ethernet or USB cable.

### I/Q Signal Output

The IC-R8600 outputs I/Q data to the third-party software HSDR\*, and the IC-R8600 can be controlled by the HSDR.

\* This function requires firmware version 1.3 or later. Download the IC-R8600 USB I/Q package for HSDR.

### Other Features

- Absolute Value of RSSI (Received Signal Strength Indicator) • 2000 regular Memory channels • 3 antenna connectors: an SO-239 type and a phono (RCA) connector for HF and a type-N connector
- Clock and NTP function • Center tuning meter and digital auto frequency control (AFC) for FM, WFM and digital modes
- Built-in Voice synthesizer • Audio tone functions: HPF/LPF, bass, treble and de-emphasis • Decode multiple digital code used in digital mode • IP+ function • Main dial friction adjustment • Dial lock and panel lock • CI-V remote control command • RX history log for digital modes



Bluetooth®



## COMMUNICATIONS RECEIVER IC-R15

Receiving Various Signals  
with Dualwatch

Simple Graphical Icon Menu  
and Clear Visibility

Simple Mode to Start Receiving  
and Scanning More Quickly

### Dualwatch Receiving

The Dualwatch function supports receiving two signals at the same time. Enjoyable watching various signals, Airband, Railway, Marine, Amateur, Radio broadcasting (WFM) in between 76 ~ 500 MHz.

#### Example : Dualwatch Operation

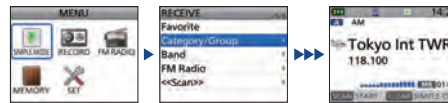


### Simple Graphical Icon Menu

The large color LCD has excellent visibility and displays a lot of information. Easy to understand display of received information.

### Simple Mode

You can immediately start receiving and scanning by simply selecting your favorite channel or Category/Group that you want to listen to. By registering frequencies that are often listened as favorites, it is possible to receive more quickly.



### Saving Audio on microSD Card

A built-in recording function enables simultaneous recording of two signals, and saves the received audio on a microSD card as a WAV file. The recorded audio can be played back on the IC-R15 or your PC.

### USB Type-C™ Cable Charging

The USB Type-C™ port enables you to charge from an external battery when the internal battery is exhausted. You can use the IC-R15 confidently in any situation.



USB Type-C Charging

### Other Features

- Built-in Bluetooth® Function\* (\*Bluetooth® connection does not guarantee that all devices will work with this product.)
- Superior IPX7 waterproof, 1 m depth water for 30 minutes
- High speed scan of 150 channels per second
- VSC (Voice Squelch Control) function for receiving only audio signal\* (\*FM / FM-N mode)
- USB/SD storage
- Optional CS-R15 programming software
- Battery level display function
- Key lock function
- Monitor function (squelch opening)
- CTCSS/DTCS with reverse tone squelch
- Frequency shift function
- Auto squelch function
- Selectable tuning steps
- RF attenuator
- ANL function
- Temporary skip function



## COMMUNICATIONS RECEIVER IC-R6

0.1 ~ 1309.995 MHz\*  
Wideband Coverage

100 Channels Per Second  
High Speed Scan

15 Hours of Continuous  
Receive Capability

### 0.1 ~ 1309.995 MHz\* Coverage

Amateur stations, AM, FM, short wave broadcasts, air band, marine VHF, PMR446 and a variety of utility communications can be found and listened to.

\* Frequency range depending on version.

### 100 Channels per Second High Speed Scan

The IC-R6 has 100 channels per second high speed scan capability\* and variety of scan functions; Auto memory scan, Tone scan, Programmed scan, Memory scan, priority scan, auto memory write scan and more.

\* VFO mode scanning.

### 15 Hours of Continuous Receive Capability\*

The IC-R6 is energy-efficient, designed to provide many hours of listening enjoyment on a single charge. With the supplied rechargeable Ni-MH cells (1400 mAh x2), the IC-R6 provides up to 15 hours of continuous receive capability\*.

\* At 50 mW output using external speaker.

### 1300 Memory Channels with 22 Memory Banks

With 1300 alphanumeric memory channels, 50 scan edges and 200 auto write memories, the IC-R6 gives you flexible scanning. Use the bank link scan feature to choose from and connect any of the 22 memory banks.

### VSC (Voice Squelch Control)

The VSC opens the squelch only when a modulated signal is detected and ignores unmodulated beat noise. It is a handy feature for those listeners who are scanning for talk, news and music, but not data bursts or beacons.










### Other Features








- Built-in audio low pass filter
- ±1.0 ppm high frequency stability (at 25°C)
- Earphone cord antenna for AM aviation as well as FM broadcast
- Ferrite bar antenna for AM broadcast
- DTCS and CTCSS tone squelch and reverse tone squelch
- Optional CS-R6 programming software
- Receiver-to-receiver cloning (optional OPC-474 required)
- Auto power OFF
- Compact, drip-resistant construction
- Duplex operation monitoring
- Automatic LCD backlight
- Dial speed acceleration
- Built-in RF attenuator
- Reversible up/down buttons and dial knob for volume, frequency, memory channel, scan direction and set mode settings
- Optional tube earphone, SP-27

\* Frequency range depending on version.

# OPTIONAL ACCESSORIES FOR BASE STATIONS, MULTI-BAND & RECEIVERS

MODEL NAME	HAND MICROPHONES				SPEAKER-MICROPHONE	DESKTOP MICROPHONES		Bluetooth® HEADSET	LINEAR AMPLIFIER
	HM-219	HM-151	HM-198	HM-232		HM-243	SM-50		
									
IC-7610	✓					✓	✓		✓
IC-7300	✓					✓	✓		(Use with OPC-599)
IC-9700	✓					✓	✓		
IC-905					✓				
IC-705					✓			✓	
IC-7100	(Use with OPC-589)	✓	✓	✓		(Use with OPC-589)	(Use with OPC-589)		(Use with OPC-599)
IC-R8600									







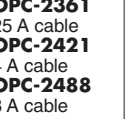

MODEL NAME	EXTERNAL SPEAKERS					AC ADAPTER	ANTENNA TUNERS		AUTO TUNING ANTENNA
	SP-33 Wooden box speaker	SP-35 2.0 m cable SP-35L 6.0 m cable	SP-38 Best design matched for the IC-7300/IC-9700	SP-39AD With DC power supply	SP-41 With two input lines		AD-55NS Input: 100 ~ 240 V /1.0 A, Output: 15 V/2.0 A	AH-730 Covers 1.8 ~ 54 MHz	
									
IC-7610	✓				✓		✓		(Use with OPC-2321)
IC-7300	✓	✓	✓		✓		✓		(Use with OPC-2321)
IC-9700	✓	(Use SP-35)	✓		✓				
IC-905									
IC-705								✓	
IC-7100		(Use SP-35)					✓		(Use with OPC-2321)
IC-R8600				✓	✓	✓			



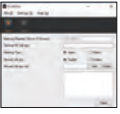






MODEL NAME	CONTROL CABLES		COAXIAL CABLE	DPD CABLE	FOLDED DIPOLE ANTENNA	OMNIDIRECTIONAL ANTENNA	CARRYING HANDLES	MOBILE MOUNTING BRACKETS	
	OPC-2321 (6.0 m) For use with AH-740 OPC-1465 (10 m) For use with AH-730	OPC-2474 (5.0 m) For use with AH-705						OPC-2475 (5.0 m) For use with AH-705	OPC-2501 3 m, 9.8 ft
									
IC-7610	✓			(Use with IC-PW2)	✓		(Use MB-121)		
IC-7300	✓				✓		(Use MB-123)		✓
IC-9700							(Use MB-123)		✓
IC-905									
IC-705		(Use with AH-705)	(Use with AH-705)						
IC-7100	✓							✓	
IC-R8600					✓	✓	(Use MB-123)		









: Applicable     : Not applicable



# OPTIONAL ACCESSORIES FOR BASE STATIONS, MULTI-BAND & RECEIVERS

MODEL NAME	DESKTOP STAND	MOUNTING BASE	CONTROLLER BRACKET	SEPARATION CABLES	MIC ADAPTER CABLE	ADAPTER CABLE	DC POWER CABLES	PROGRAMMING SOFTWARE	REMOTE CONTROL SOFTWARE
	<b>MBF-705</b> 	<b>MBF-1</b> 	<b>MBA-1</b> 	<b>OPC-2253</b> 3.5 m <b>OPC-2254</b> 5.0 m 	<b>OPC-589</b> 8-pin connector microphone to 8-pin modular 	<b>OPC-599</b> 13-pin ACC socket to 7-, 8-pin ACC sockets 	<b>OPC-1457R</b> <b>OPC-1457-1</b> 30 A cable <b>OPC-2095</b> 30 A cable <b>OPC-2361</b> 25 A cable <b>OPC-2421</b> 4 A cable <b>OPC-2488</b> 8 A cable 	<b>CS-9700</b> <sup>*1</sup> <b>CS-905</b> <sup>*1</sup> <b>CS-705</b> <sup>*1</sup> <b>CS-7100</b> <b>CS-R8600</b> A USB cable is required for programming.	<b>RS-MS1A</b> <sup>*2</sup> For Android™ device 
<b>IC-7610</b>							✓ (Use OPC-1457-1)		
<b>IC-7300</b>						✓	✓ (Use OPC-1457R)		
<b>IC-9700</b>							✓ (Use OPC-2361)	✓ (Use CS-9700)	✓ (Use with OPC-2350LU)
<b>IC-905</b>	✓						✓ (Use OPC-2488)	✓ (Use CS-905)	
<b>IC-705</b>	✓						✓ (Use OPC-2421)	✓ (Use CS-705)	✓ <sup>*4</sup>
<b>IC-7100</b>		✓ (Use with MBA-1)	✓	✓	✓	✓	✓ (Use OPC-2095)	✓ (Use CS-7100)	✓ (Use with OPC-2350LU)
<b>IC-R8600</b>								✓ (Use CS-R8600)	

MODEL NAME	REMOTE CONTROL SOFTWARE					USB REMOTE ENCODER	PICTURE UTILITY SOFTWARE	GPS SOFTWARE	TIME ADJUSTMENT SOFTWARE
	<b>RS-MS1I</b> <sup>*3</sup> For iOS™ device 	<b>RS-MS3A</b> <sup>*2</sup> For Android™ device 	<b>RS-MS3W</b> <sup>*1</sup> For Windows™ PC 	<b>RS-R8600</b> 	<b>RS-BA1</b> (Version 2) 	<b>RC-28</b> 	<b>ST-4001A</b> <sup>*2</sup> <b>ST-4001I</b> <sup>*3</sup> <b>ST-4001W</b> <sup>*1</sup> 	<b>ST-4002A</b> <sup>*2</sup> 	<b>ST-4003A</b> <sup>*2</sup> <b>ST-4003W</b> <sup>*1</sup> 
<b>IC-7610</b>					✓	✓			✓
<b>IC-7300</b>					✓	✓			✓
<b>IC-9700</b>		✓ (Use with OPC-2350LU)	✓ (Use with OPC-2350LU)		✓	✓ (Use with RS-BA1)	✓	✓ (Use with OPC-2350LU)	✓
<b>IC-905</b>		✓ <sup>*9</sup>	✓ <sup>*9</sup>		✓	✓ (Use with RS-BA1)	✓		✓
<b>IC-705</b>	✓ <sup>*5</sup>	✓ <sup>*6</sup>	✓ <sup>*7</sup>		✓	✓ (Use with RS-BA1)	✓		✓
<b>IC-7100</b>					✓	✓ (Use with RS-BA1)		✓ (Use with OPC-2350LU)	✓
<b>IC-R8600</b>				✓		✓ (Use with RS-R8600)			

MODEL NAME	DATA CABLES		BATTERY PACKS		DESKTOP CHARGERS		AC ADAPTER	CIGARETTE LIGHTER CABLES	
	<b>OPC-1529R</b> RS-232 cable for an external GPS or a PC 	<b>OPC-2350LU</b> 2.5 mm jack to USB Type-A or micro-B <b>OPC-2417</b> USB micro-B to micro-B <b>OPC-2418</b> USB Type-C™ to micro-B	<b>BP-272</b> (Li-ion) 7.4 V/ 1880 mAh (min.), 2000 mAh (typ.) 	<b>BP-307</b> (Li-ion) 7.2 V/ 3050 mAh (min.), 3150 mAh (typ.) 	<b>BC-202IP2</b> Rapid charger 	<b>BC-202IP3L</b> Connectable type Connects up to six BC-202IP3L units. 	<b>BC-1235E</b> <sup>*9</sup> 12 V/1.0 A for BC-202IP2/3L 	<b>CP-23L</b> 	<b>CP-25H</b> 
<b>IC-7610</b>									
<b>IC-7300</b>									
<b>IC-9700</b>	✓	✓ (Use OPC-2350LU)							
<b>IC-905</b>									
<b>IC-705</b>		✓ (Use OPC-2417 or OPC-2418)	✓	✓	✓	✓	✓	✓ (Use with BC-202IP2)	✓ (Use with BC-202IP3L)
<b>IC-7100</b>	✓	✓ (Use OPC-2350LU)							
<b>IC-R8600</b>									

<sup>\*1</sup> Free download software for Windows™ PC. Download from the Icom website: [www.icomjapan.com/support/firmware\\_driver/](http://www.icomjapan.com/support/firmware_driver/)

: Applicable  : Not applicable

<sup>\*2</sup> Free download Android™ app. Download on Google Play™. <sup>\*3</sup> Free download iOS™ app. Download on the App Store.

<sup>\*4</sup> Use with OPC-2417, OPC-2418 or Bluetooth® connection for Android™ device. <sup>\*5</sup> Use Bluetooth® connection for iOS™ device.

<sup>\*6</sup> Use with OPC-2417 or OPC-2418. <sup>\*7</sup> Use a USB cable. USB cable Type-A: User supplied. Type-C: OPC-2418.









<sup>\*8</sup> USB Type-C™ cable is required. <sup>\*9</sup> AC adapter may be supplied with the BC-202IP2, depending on versions.

## Note for the Terminal mode and Access point mode

- Before operating in the Terminal mode or the Access Point mode, BE SURE to check your local regulations or laws.
- You need an Internet connection with an IPv4 Global IP address. If you use a cellular system, you need an IPv4 Global IP address assigned to your Windows™ or Android™ device.
- When operating in the Access Point mode, you need two call signs. One for the Access Point transceiver and one for the Remote D-STAR transceiver.
- For the Access point or Terminal mode operation, please register your MY and Access point call signs with a Gateway repeater/server that has the RS-RP3C installed.

\*Bluetooth® connection has not been tested for all Bluetooth® compatible devices with this product. This does not guarantee that all devices will work with this product.

# OPTIONAL ACCESSORIES FOR BASE STATIONS, MULTI-BAND & RECEIVERS

MODEL NAME	BACKPACK	CONTROL CABLES		ANTENNAS				TRANSVERTER
	LC-192 Multi-function backpack	OPC-2509 50 m	OPC-2513 20 m	AH-24 2400 MHz BAND COLLINEAR	AH-56 5600 MHz BAND COLLINEAR	AH-100 10 GHz BAND COLLINEAR	AH-109PB 10 GHz BAND PARABOLIC	CX-10G 10 GHz TRANSVERTER
IC-7610								
IC-7300								
IC-9700								
IC-905		✓	✓	✓	✓	(Use with CX-10G) ✓	(Use with CX-10G) ✓	✓
IC-705	✓							
IC-7100								
IC-R8600								

: Applicable     : Not applicable

## Official Goods

### Protection Covers



Protection Cover for IC-7610  
Size (H x W x D): 125 x 361 x 323 mm



Protection Cover for IC-7300 • IC-9700  
Size (H x W x D): 103 x 261 x 283 mm



Check the Icom website for details

### Shoulder Radio Holder





















### Microphone Holder for Desktop Charger














# OPTIONAL ACCESSORIES FOR HANDHELD RADIOS & RECEIVERS

MODEL NAME	BATTERY CASES		BATTERY PACKS				DESKTOP CHARGERS		
	<b>BP-273</b> LR6 (AA)× 3 cells	<b>BP-293</b> LR6 (AA)× 3 cells	<b>BP-272</b> (Li-ion) 1880 mAh (min.), 2000 mAh (typ.)	<b>BP-307</b> (Li-ion) 3050 mAh (min.), 3150 mAh (typ.)	<b>BP-280</b> (Li-ion) 2280 mAh (min.), 2400 mAh (typ.)	<b>BP-287</b> (Li-ion) 3120 mAh (min.), 3280 mAh (typ.)	<b>BC-202IP2</b> Rapid charger	<b>BC-202IP3L</b> Connectable type Connects up to six BC-202IP3L units.	<b>BC-213</b> Rapid charger
									
ID-52E	✓		✓	✓			✓*1	✓	
ID-50E	✓		✓	✓			✓*1	✓	
IC-T10					✓				✓*1
IC-R15		✓				✓			
IC-R6									

MODEL NAME	DESKTOP CHARGERS		MULTI CHARGER	AC ADAPTERS					
	<b>BC-223</b> Rapid charger	<b>BC-194</b> Charger stand	<b>BC-214N</b> For BP-280/ BP-298/BP-299	<b>BC-1675D</b> 12 V/500 mA	<b>BC-1235E</b> 12 V/1.0 A	<b>BC-228</b> 15 V/4 A	<b>BC-242</b> 12 V/1.0 A	<b>BC-1575</b> 12 V/7.5 A	<b>BC-258E</b> 5 V/2 A
									
ID-52E				✓	✓ (Use with BC-202IP2/3L)	✓ (Use with BC-202IP3L)			
ID-50E				✓	✓ (Use with BC-202IP2/3L)	✓ (Use with BC-202IP3L)			✓ (USB cable required)
IC-T10			✓*1 (Use #41-#43)		✓ (Use with BC-213)		✓ (Use with BC-213)	✓*1 (Use with BC-214N)	
IC-R15	✓*1				✓ (Use with BC-223)				✓ (USB cable required)
IC-R6		✓ (Use with BC-196SD)							










\*1 AC adapter may be supplied depending on versions.










MODEL NAME	CIGARETTE LIGHTER CABLES			DC POWER CABLE	POWER SUPPLY ADAPTER	SPEAKER-MICROPHONES			
	<b>CP-12L</b> with noise filter	<b>CP-23L</b>	<b>CP-25H</b>	<b>OPC-254L</b>	<b>AD-149H</b>	<b>HM-243LS</b> Remote control	<b>HM-183LS</b> Waterproof	<b>HM-186LS</b>	<b>HM-222HLWP</b> Waterproof
									
ID-52E	✓	✓ (Use with BC-202IP2)	✓ (Use with BC-202IP3L)	✓		✓	✓	✓	
ID-50E	✓	✓ (Use with BC-202IP2)	✓ (Use with BC-202IP3L)	✓		✓	✓	✓	
IC-T10	✓ (Use with AD-149H)	✓ (Use with BC-213)		✓ (Use with AD-149H)	✓ (Use with CP-12L or OPC-254L)				✓
IC-R15									
IC-R6									






MODEL NAME	SPEAKER-MICROPHONES			EARPHONE-MICROPHONES				HEADSETS	
	<b>HM-158LA</b>	<b>HM-159LA</b>	<b>HM-168LWP</b> Waterproof	<b>HM-153LS</b>	<b>HM-166LS</b>	<b>HM-153LA</b>	<b>HM-166LA</b>	<b>HS-94LWP</b> Earhook type with waterproof connector	<b>HS-95LWP</b> Neck arm type with waterproof connector
									
ID-52E				✓	✓				
ID-50E				✓	✓				
IC-T10	✓	✓	✓			✓	✓	✓	✓
IC-R15									
IC-R6									

✓ : Applicable    □ : Not applicable

# OPTIONAL ACCESSORIES FOR HANDHELD RADIOS & RECEIVERS

	HEADSETS			EARPHONES		PLUG ADAPTER CABLES		Bluetooth® HEADSET	CARRYING CASES
MODEL NAME	<b>HS-94</b> Earhook type with boom microphone 	<b>HS-95</b> Neck-arm type 	<b>HS-97</b> Throat microphone type 	<b>SP-40</b> 	<b>SP-27</b> 	<b>OPC-2006LS</b> For VOX operation 	<b>OPC-2144</b> For straight plug microphones 	<b>VS-3</b> 	<b>LC-193</b> 
<b>ID-52E</b>	(Use with OPC-2006LS) ✓	(Use with OPC-2006LS) ✓	(Use with OPC-2006LS) ✓	(Use with OPC-2144) ✓		✓	✓	✓	✓
<b>ID-50E</b>	(Use with OPC-2006LS) ✓	(Use with OPC-2006LS) ✓	(Use with OPC-2006LS) ✓	(Use with OPC-2144) ✓		✓	✓		
<b>IC-T10</b>									
<b>IC-R15</b>				✓					
<b>IC-R6</b>				✓	✓				

	CARRYING CASES		CHARGER BRACKET	USB CABLES		PROGRAMMING CABLES	BELT CLIPS	ANTENNA	
MODEL NAME	<b>LC-202</b> 	<b>LC-203</b> 	<b>MB-130</b> 	<b>OPC-2417</b> USB micro-B to micro-B 	<b>OPC-2418</b> USB Type-C™ to micro-B 	<b>OPC-474</b> Handheld to handheld 	<b>OPC-478UD</b> Handheld to PC USB cable 	<b>MB-127</b> <b>MB-133</b>  (Photo shows MB-133)	<b>FA-5270C</b> 
<b>ID-52E</b>				✓	✓			(Use MB-127) ✓	✓
<b>ID-50E</b>	✓							(Use MB-127) ✓	✓
<b>IC-T10</b>			(Use with BC-213) ✓				✓	(Use MB-133) ✓	✓
<b>IC-R15</b>		✓						(Use MB-127) ✓	✓
<b>IC-R6</b>						✓	✓		✓

	ANTENNA ADAPTER	PROGRAMMING SOFTWARE	REMOTE CONTROL SOFTWARE		PICTURE UTILITY SOFTWARE	
MODEL NAME	<b>AD-92SMA</b> BNC type antenna connector 	<b>CS-52</b> <sup>*2</sup> <b>CS-50</b> <sup>*2</sup> <b>CS-T10</b> <sup>*2</sup> <b>CS-R15</b> <b>CS-R6</b>	<b>RS-MS1A</b> <sup>*3</sup> For Android™ device  <b>RS-MS1I</b> <sup>*4</sup> For iOS™ device	<b>RS-MS3A</b> <sup>*3</sup> For Android™ device  <b>RS-MS3W</b> <sup>*2</sup> For Windows™ PC	<b>ST-4001A</b> <sup>*3</sup> <b>ST-4001I</b> <sup>*4</sup> <b>ST-4001W</b> <sup>*2</sup> 	<b>ST-ID50A</b> <sup>*3</sup> <b>ST-ID50W</b> <sup>*2</sup> 
<b>ID-52E</b>	✓	(Use CS-52) ✓	✓ <sup>*5</sup>	✓ <sup>*6</sup>	✓	
<b>ID-50E</b>	✓	(Use CS-50) ✓	(Use RS-MS1A) ✓ <sup>*7</sup>	✓ <sup>*7</sup>		✓ <sup>*7</sup>
<b>IC-T10</b>		(Use CS-T10) ✓				
<b>IC-R15</b>		(Use CS-R15) ✓				
<b>IC-R6</b>	✓	(Use CS-R6) ✓				

: Applicable   
  : Not applicable

<sup>\*2</sup> Free download software for Windows™ PC. Download from the Icom website: [www.icomjapan.com/support/firmware\\_driver/](http://www.icomjapan.com/support/firmware_driver/)

<sup>\*3</sup> Free download Android™ app. Download on Google Play™. <sup>\*4</sup> Free download iOS™ app. Download on the App Store.

<sup>\*5</sup> Use with OPC-2417, OPC-2418 or Bluetooth® connection for Android™ device. Use Bluetooth® connection for iOS™ device.

<sup>\*6</sup> USB cable required. Type-A: User supplied. Type-C: OPC-2418. micro-B: OPC-2417. <sup>\*7</sup> User supplied USB Type-C™ cable required.

\* Bluetooth® connection has not been tested for all Bluetooth® compatible devices with this product. This does not guarantee that all devices will work with this product.

## RS-MS1A/RS-MS1I Remote Control App

(Free Download Android™/iOS™ Application on Google Play™/App Store)

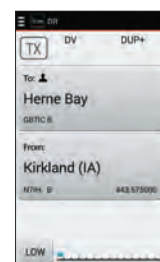
The RS-MS1A and RS-MS1I allow you to connect the Digital transceiver with an Android™/iOS™ device and remotely control various functions and settings from the Android™/iOS™ device. You can take pictures with your Android™ or iOS™ device, or use stored pictures, and share them over the DV mode.

\* An optional Bluetooth® unit (UT-133A) or a data cable (OPC-2350LU) may be required, depending on the transceiver.

Not all functions are usable with the IC-7100.

\* Some functions may not work properly, depending on Android™/iOS™ devices used.

\* Photo shows RS-MS1A.



DR function setting example















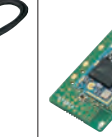
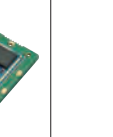


Repeater map example © Google



# OPTIONAL ACCESSORIES FOR MOBILE RADIOS

	HAND MICROPHONES				HANDS-FREE MICROPHONE	EXTENSION CABLE	Bluetooth® HEADSET	MOUNTING BASE	MOUNTING BRACKET
MODEL NAME	<b>HM-198</b>	<b>HM-207</b>	<b>HM-154</b>	<b>HM-232</b>	<b>HM-249</b>	<b>OPC-2500</b> (2 m, 6.6 ft)	<b>VS-3</b>	<b>MBF-1</b>	<b>MBF-4</b>
									
<b>ID-5100E</b>	✓	✓	✓	✓	✓	(Use with HM-249)	(Use with UT-133A)	(Use with MBA-2)	✓
<b>IC-2730E</b>	✓	✓	✓	✓	✓	(Use with HM-249)	(Use with UT-133A)	(Use with MBA-5)	✓

	CONTROLLER BRACKETS	COMBINATION BRACKET	EXTERNAL SPEAKERS		MICROPHONE CABLES	MIC ADAPTER CABLE	CONTROLLER CABLE	
MODEL NAME	<b>MBA-2</b>	<b>MBA-5</b>	<b>MBA-4</b>	<b>SP-35</b> 2.0 m cable <b>SP-35L</b> 6.0 m cable	<b>SP-30</b> 4 inch (102.5 mm) diameter speaker	<b>OPC-440</b> 5.0 m <b>OPC-647</b> 2.5 m	<b>OPC-589</b> 8-pin connector microphone to 8-pin modular	<b>OPC-1156</b> 3.5 m
								
<b>ID-5100E</b>	✓			✓	✓	✓	✓	✓
<b>IC-2730E</b>		✓	✓	✓	✓	✓	✓	✓

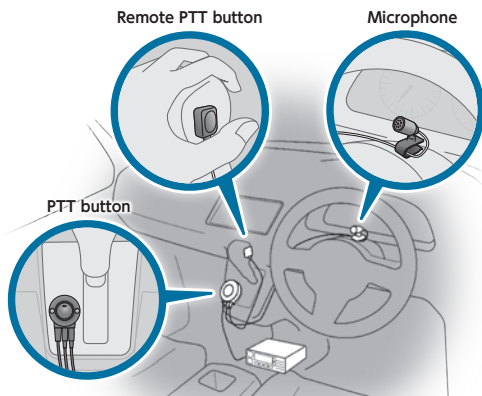
	DATA CABLES	PROGRAMMING CABLE	CLONING CABLE	Bluetooth® UNIT	PROGRAMMING SOFTWARE	REMOTE CONTROL SOFTWARE	GPS SOFTWARE	
MODEL NAME	<b>OPC-1529R</b> RS-232 cable	<b>OPC-2350LU</b> USB cable for an Android™ or a PC	<b>OPC-478UD</b> Transceiver to PC USB cable	<b>OPC-474</b> Between transceivers	<b>UT-133A</b>	<b>CS-5100</b> <sup>*1</sup> <b>CS-2730</b> <sup>*1</sup>	<b>RS-MS1A</b> <sup>*2</sup> For Android™ device	<b>ST-4002A</b> <sup>*2</sup>
								
<b>ID-5100E</b>	✓	✓	✓	✓	(Use CS-5100)	(Use with UT-133A)	(Use with OPC-2350LU)	
<b>IC-2730E</b>			✓	✓	(Use CS-2730)			

: Applicable
  : Not applicable

\*1 CS-5100 and CS-2730 are available for free download from Icom website: [www.icomjapan.com/support/firmware\\_driver](http://www.icomjapan.com/support/firmware_driver)

\*2 Free download Android™ app. Download on Google Play™.

## HANDS-FREE MICROPHONE HM-249



Driver can keep talking, while driving in safety

- Push-ON and push-OFF toggle operation for main PTT button
- Momentary operation for remote PTT button
- LED in Main PTT button lights up when transmitting
- Compatible with the ID-5100E and IC-2730E

Please put these parts in the position where does not influence to your driving operation.

# SPECIFICATIONS FOR BASE STATIONS & MULTI-BAND

		IC-7610	IC-7300	IC-9700
General	Frequency coverage (Differs according to version)	Tx: 135 kHz, 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50 MHz bands Rx: 30 kHz ~ 60 MHz*2	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50, 70** MHz bands Rx: 30 kHz ~ 74.8 MHz*2	144, 430 MHz, 1.2 GHz (23 cm)**1
	Modes	USB, LSB, CW, RTTY, PSK31/63, AM, FM	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, RTTY, AM, FM, DV, DD* (* 1200 MHz only)
	Frequency stability	Less than ±0.5 ppm (0°C ~ +50°C)	Less than ±0.5 ppm (-10°C ~ +60°C)	Less than ±0.5 ppm (-10°C ~ +60°C)
	Maximum current drain	23 A at 13.8 V DC	21 A at 13.8 V DC	18 A at 13.8 V DC
	Antenna connector	SO-239 x 2, BNC	SO-239	SO-239 (144 MHz), Type-N (430, 1200 MHz)
	Dimensions (W x H x D; Projections are not included)	340 x 118 x 277 mm	240 x 94 x 238 mm	240 x 94 x 238 mm
	Weight (approx.)	8.5 kg	4.2 kg	4.7 kg
Transmitter	Output power	SSB, CW, RTTY, PSK, FM: 1 ~ 100 W AM: 1 ~ 25 W Transverter connector (CW): -20 dBm	SSB, CW, FM, RTTY: HF/50 MHz 2 ~ 100 W 70 MHz 2 ~ 50 W AM: HF/50 MHz 1 ~ 25 W 70 MHz 1 ~ 12.5 W	SSB, CW, RTTY, FM, DV, DD: 144 MHz 0.5 ~ 100 W 430 MHz 0.5 ~ 75 W 1200 MHz 0.1 ~ 10 W AM: 144 MHz 0.125 ~ 25 W 430 MHz 0.125 ~ 18.75 W 1200 MHz 0.025 ~ 2.5 W
	Sensitivity (typical) Preamp ON SSB, CW, RTTY, AM: at 10 dB S/N FM, WFM: at 12 dB SINAD	SSB, CW (2.4 kHz): 1.8 ~ 29,999 MHz 0.16 µV 50 MHz band 0.13 µV AM (6 kHz): 0.5 ~ 1.799 MHz 6.3 µV 1.8 ~ 29,999 MHz 2.0 µV 50 MHz band 1.0 µV FM (15 kHz): 28 ~ 29,700 MHz 0.5 µV 50 MHz band 0.32 µV	SSB, CW (2.4 kHz): 1.8 ~ 29,999 MHz 0.16 µV 50 ~ 54 MHz 0.13 µV 70 ~ 70.5 MHz 0.16 µV AM (6 kHz): 0.5 ~ 1.8 MHz 12.6 µV 1.8 ~ 29,999 MHz 2.0 µV 50 ~ 54 MHz 1.0 µV 70 ~ 70.5 MHz 1.0 µV FM (15 kHz): 28 ~ 29.7 MHz 0.5 µV 50 ~ 54 MHz 0.25 µV 70 ~ 70.5 MHz 0.25 µV	SSB/CW: (Filter: SOFT) Less than 0.11 µV AM: Less than 1.0 µV FM: Less than 0.18 µV DV: Less than 0.35 µV DD (1200 MHz only): Less than 1.59 µV (Preamp ON for 144 MHz, 430 MHz and 1200 MHz)
Receiver	Selectivity	SSB: 2.4 kHz/-6 dB (2.4 kHz) 3.6 kHz/-60 dB CW: 500 Hz/-6 dB (500 Hz) 700 Hz/-60 dB RTTY: 500 Hz/-6 dB (500 Hz) 700 Hz/-60 dB AM: 6.0 kHz/-6 dB (6 kHz) 15 kHz/-60 dB FM: 12 kHz/-6 dB (15 kHz) 20 kHz/-60 dB * Variable between 50 Hz and 3.6 kHz.	SSB: 2.4 kHz/-6 dB (2.4 kHz) 3.4 kHz/-40 dB CW: 500 Hz/-6 dB (500 Hz) 700 Hz/-40 dB RTTY: 500 Hz/-6 dB (500 Hz) 800 Hz/-40 dB AM: 6.0 kHz/-6 dB (6 kHz) 10 kHz/-40 dB FM: 12 kHz/-6 dB (15 kHz) 22 kHz/-40 dB * Variable between 50 Hz and 3.6 kHz.	SSB: 2.4 kHz/-3 dB (2.4 kHz) 3.6 kHz/-60 dB CW: 500 Hz/-3 dB (500 Hz) 700 Hz/-60 dB RTTY: 500 Hz/-3 dB (500 Hz) 700 Hz/-60 dB AM: 6 kHz/-3 dB (6 kHz) 15 kHz/-60 dB FM: 12 kHz/-6 dB (15 kHz) 20 kHz/-60 dB DV (12.5 kHz spacing): -50 dB DD (300 kHz spacing): -40 dB
	Spurious and image rejection	More than 70 dB* * Except for ADC aliasing on 50 MHz band.	More than 70 dB* * Except for ADC aliasing on 50 MHz band.	144/430 MHz SSB/CW More than 70 dB AM/FM/DV More than 60 dB 1200 MHz SSB/CW/AM/FM/DV/DD More than 50 dB
	Audio output power	More than 2.0 W (8 Ω load)	More than 2.5 W (8 Ω load)	More than 2.0 W (8 Ω load)
	US Military Standards and IP Rating	-	-	-

		IC-905	IC-705	IC-7100
General	Frequency coverage (Differs according to version)	144, 430 MHz, 1.2 GHz (23 cm), 2.4 GHz (13 cm), 5.6 GHz (6 cm) bands plus 10 GHz (3 cm) bands (with option CX-10G)	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50, 144, 430 MHz band Rx: 30 kHz ~ 199.999 MHz, 400 ~ 470 MHz*2	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50, 70**1, 144, 430 MHz bands Rx: 30 kHz ~ 199.999 MHz, 400 ~ 470 MHz*2
	Modes	SSB, CW, AM, FM, RTTY, DV, DD*, ATV* (*1200 MHz and above)	USB, LSB, CW, RTTY, DV, AM, FM, WFM* (*Rx only)	USB, LSB, CW, RTTY, DV, AM, FM, WFM* (*Rx only)
	Frequency stability	Less than ±65 ppb (Total deviation) GPS-Controlled Oscillator	Less than ± 0.5 ppm (-10°C ~ +60°C)	Less than ±0.5 ppm (0°C ~ +50°C @ 430 MHz)
	Maximum current drain	Less than 5.5 A (at 13.8 V DC)	3 A at 13.8 V DC (10 W output) 2.5 A at 7.4 V DC (5 W output)	22 A (HF/50/70 MHz), 16 A (144/430 MHz) at 13.8 V DC
	Antenna connector	Type-N (144 ~ 1200 MHz), SMA x 2 (2.4, 5.6 GHz)	BNC (One connector for all bands)	SO-239 x 2
	Dimensions (W x H x D; Projections are not included)	Controller unit 200 x 83.5 x 82 mm RF unit 172 x 87 x 210 mm, CX-10G 181 x 115 x 64 mm	200 x 83.5 x 82 mm	Main unit: 167 x 58 x 225 mm Controller: 165 x 64 x 78.5 mm
	Weight (approx.)	Controller 0.94 kg, RF unit 3.2 kg, CX-10G 1.3 kg	1.1 kg (including BP-307)	Main unit: 2.3 kg Controller: 500 g
Transmitter	Output power	SSB, CW, FM, RTTY, DV, DD**3, ATV**3: 144, 430 MHz, 1.2 GHz 10 W 2.4, 5.6 GHz 2 W 10 GHz (with CX-10G) 0.5 W typ. AM: 144, 430 MHz, 1.2 GHz 2.5 W 2.4, 5.6 GHz 0.5 W 10 GHz (with CX-10G) 0.125 W typ.	13.8 V DC SSB, CW, RTTY, FM, DV: 0.1 ~ 10 W AM: 0.025 ~ 2.5 W Using specified Icom's battery pack (7.4 V DC) SSB, CW, RTTY, FM, DV: 0.1 ~ 5 W AM: 0.025 ~ 1.25 W	SSB, CW, RTTY, FM, DV: 1.8 ~ 50 MHz 2 ~ 100 W 70/144 MHz 2 ~ 50 W 430 MHz 2 ~ 35 W AM: 1.8 ~ 50 MHz 1 ~ 30 W 70 MHz 1 ~ 15 W
	Sensitivity (typical) Preamp ON SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12 dB SINAD DV: at 1 % BER	SSB, CW: 144/430 MHz, 1.2/2.4 GHz 0.11 µV 5.6 GHz 0.15 µV 10 GHz (with CX-10G) 0.14 µV AM: 144/430 MHz, 1.2/2.4 GHz 1.0 µV 5.6 GHz 1.4 µV 10 GHz (with CX-10G) 1.1 µV FM: 144/430 MHz, 1.2/2.4 GHz 0.17 µV 5.6 GHz 0.25 µV 10 GHz (with CX-10G) 0.22 µV DV: 144/430 MHz, 1.2/2.4 GHz 0.35 µV 5.6 GHz 0.50 µV DD: 1.2/2.4 GHz 1.58 µV 5.6 GHz 2.23 µV	SSB, CW: 1.8 ~ 29,999 MHz 0.2 µV (2.4 kHz) 50 ~ 54 MHz 0.15 µV 144/430 MHz 0.11 µV AM: 0.5 ~ 1.799 MHz 13 µV (6 kHz) 1.8 ~ 29,999 MHz 2.0 µV 50 ~ 54 MHz 1.0 µV 144/430 MHz 1.0 µV FM: 28 ~ 29.7 MHz 0.5 µV (15 kHz) 50 ~ 54 MHz 0.25 µV 144/430 MHz 0.18 µV DV: 28 ~ 29.7 MHz 1 µV 50 ~ 54 MHz 0.63 µV 144/430 MHz 0.35 µV WFM: 76 ~ 108 MHz 0.71 µV	SSB, CW: 1.8 ~ 29,999 MHz 0.15 µV (2.4 kHz) 50 ~ 54 MHz 0.12 µV 144/430 MHz 0.11 µV AM: 0.5 ~ 1.8 MHz 13 µV (6 kHz) 1.8 ~ 29,999 MHz 2.0 µV 50 ~ 54 MHz 1.0 µV 144/430 MHz 1.0 µV FM: 28 ~ 29.7 MHz 0.5 µV (15 kHz) 50 ~ 54 MHz 0.25 µV 144/430 MHz 0.18 µV DV: 28 ~ 29.7 MHz 1 µV 50 ~ 54 MHz 0.63 µV 144/430 MHz 0.35 µV WFM: 76 ~ 108 MHz 10 µV
Receiver	Selectivity * Filter: SHARP	SSB: 2.4 kHz/-3 dB (2.4 kHz) 3.6 kHz/-60 dB CW: 500 Hz/-3 dB (500 Hz) 700 Hz/-60 dB RTTY: 500 Hz/-3dB (500 Hz) 700 Hz/-60 dB AM: 6.0 kHz/-3 dB (6 kHz) 15 kHz/-60 dB FM: 12 kHz/-6 dB (15 kHz) 20 kHz/-60 dB DV (12.5 kHz spacing): -50 dB DD (300 kHz spacing): -40 dB	SSB: 2.4 kHz/-6 dB (2.4 kHz) 3.4 kHz/-40 dB CW: 500 Hz/-6 dB (500 Hz) 700 Hz/-40 dB RTTY: 500 Hz/-6 dB (500 Hz) 800 Hz/-40 dB AM: 6.0 kHz/-6 dB (6 kHz) 10 kHz/-40 dB FM: 12 kHz/-6 dB (15 kHz) 22 kHz/-40 dB DV (12.5 kHz spacing): -50 dB	SSB: 2.4 kHz/-6 dB (2.4 kHz) 3.4 kHz/-40 dB CW: 500 Hz/-6 dB (500 Hz) 700 Hz/-60 dB RTTY: 500 Hz/-6 dB (500 Hz) 800 Hz/-40 dB AM: 6.0 kHz/-6 dB (6 kHz) 10 kHz/-40 dB FM: 12 kHz/-6 dB (15 kHz) 22 kHz/-40 dB DV (12.5 kHz spacing): -50 dB
	Spurious and image rejection	144/430 MHz SSB/CW More than 70 dB AM/FM/DV More than 60 dB 1.2/2.4/5.6 GHz SSB/CW/AM/FM/DV/DD More than 50 dB	More than 70 dB (HF/50 MHz)* More than 65 dB (144 MHz) More than 54 dB (430 MHz) * Except for ADC aliasing below 25 MHz. More than 50 dB at intermediate frequency in 25 ~ 30 MHz or 50 ~ 54 MHz.	More than 70 dB (HF/50/70 MHz) More than 65 dB (144/430 MHz) (Except 1/2 IF through on 50 MHz, IF through on 144 MHz)
	Audio output power (at 10 % distortion)	More than 530 mW (Internal SP, 12 Ω load) More than 200 mW (External SP, 8 Ω load)	More than 530 mW (Internal SP, 12 Ω load) More than 200 mW (External SP, 8 Ω load)	More than 2.0 W (8 Ω load)
US Military Standards and IP Rating	RF Unit IP55	MIL-STD-810-G	-	

\*\*1 Depending on version. \*\*2 Some frequency ranges are not guaranteed. \*\*3 1.2 GHz and above for DD and ATV mode.



# SPECIFICATIONS FOR HANDHELDS, MOBILES & RECEIVERS

	ID-52E	ID-50E	IC-T10	ID-5100E	IC-2730E
<b>Frequency coverage</b> (Differs according to version)	Tx 144 - 146, 430 - 440 MHz Rx A band 108 - 174, 225 - 479 MHz*1 B band 137 - 174, 375 - 479 MHz*1 FM Broadcast 76 - 108 MHz	Tx 144 - 146, 430 - 440 MHz Rx A band 108 - 174, 375 - 479 MHz*1 B band 137 - 174, 375 - 479 MHz*1 FM Broadcast 76 - 108 MHz	Tx 144 - 146, 430 - 440 MHz*1 Rx 136 - 174, 400 - 479 MHz*1 FM Broadcast 76 - 108 MHz	Europe version : Tx 144 - 146, 430 - 440 MHz Rx 118 - 174, 375 - 550 MHz*1 Italia version : Tx 144 - 146, 430 - 434, 435 - 438 MHz Rx 118 - 136.991, 144 - 146, 430 - 434, 435 - 438 MHz*2	Europe version : Tx 144 - 146, 430 - 440 MHz Rx 118 - 174, 375 - 550 MHz*1 Italia version : Tx 144 - 146, 430 - 434, 435 - 438 MHz Rx 118 - 136.991, 144 - 146, 430 - 434, 435 - 438 MHz*2
<b>Modes</b>	DV, FM, FM-N, WFM (Rx only), AM (Rx only), AM-N (Rx only)	DV, FM, FM-N, WFM (Rx only), AM (Rx only), AM-N (Rx only)	FM, FM-N	DV, FM, FM-N, AM (Rx only), AM-N (Rx only)	FM, FM-N, AM (Rx only), AM-N (Rx only)
<b>Max. current drain</b>	2.5 A	2.5 A	2.5 A	13 A	13 A
<b>Number of Memory channels</b>	1054 (1000 regular, 50 scan edges and 4 call channels)	529 (500 regular, 25 scan edges and 4 call channels)	208 (200 memory channels, 2 call channel and 6 scan edges)	1054 (1000 regular, 50 scan edges and 4 call channels)	1052 (1000 regular, 50 scan edges and 2 call channels)
<b>Dimensions</b> (W x H x D; Projections are not included)	61.1 x 121.6 x 34.8 mm with BP-272	58.0 x 111.0 x 33 mm with BP-272	52.2 x 111.8 x 30.3 mm with BP-280	Main unit: 150 x 40 x 172.6 mm Controller: 182.2 x 81.5 x 24.7 mm	Main unit: 150 x 40 x 151 mm Controller: 150 x 50 x 27.2 mm
<b>Weight</b> (approx.)	330 g with antenna and BP-272	300 g with antenna and BP-272	278 g with BP-280 and antenna	Main unit: 1.3 kg Controller: 260 g	Main unit: 1.2 kg Controller: 140 g
<b>Output power</b> (typical values)	High: 5 W Mid: 2.5 W Low1: 1 W Low2: 0.5 W S-Low: 0.1 W	High: 5 W Mid: 2.5 W Low1: 1 W Low2: 0.5 W S-Low: 0.1 W	High: 5 W Mid: 2.5 W Low: 0.5 W	High: 50 W Mid: 15 W Low: 5 W (at 13.8 V DC)	High: 50 W Mid: 15 W Low: 5 W
<b>Sensitivity</b> (FM at 12 dB SINAD, DV at 1% BER, guaranteed range)	DV Less than 0.2 µV FM/FM-N Less than 0.18 µV (144, 430 MHz bands)	DV Less than 0.2 µV FM/FM-N Less than 0.18 µV (144, 430 MHz bands)	FM/FM-N Less than 0.18 µV	DV Less than 0.28 µV FM/FM-N Less than 0.18 µV (144, 430 MHz bands)	FM/FM-N Less than 0.18 µV (144, 430 MHz bands)
<b>Audio output power</b> (at 10% distortion)	More than 750 mW (Internal SP, 8 Ω load) More than 200 mW (External SP, 8 Ω load)	More than 750 mW (Internal SP, 8 Ω load) More than 200 mW (External SP, 8 Ω load)	1500 mW typ. (Internal SP, 8 Ω load) 450 mW typ. (External SP, 8 Ω load) 1500 mW typ. (HM-222HLWP, 8 Ω load)	More than 2.0 W (8 Ω load)	More than 2.0 W (8 Ω load)
<b>MIL-STD and IP Rating</b>	IPX7	IPX7	MIL-STD-810-G, IP67	MIL-STD-810-G	MIL-STD-810-G

\*1 Guaranteed range 144 - 146 and 430 - 440 MHz. \*2 Guaranteed range 144 - 146, 430 - 434 and 435 - 438 MHz.

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

	IC-R8600	IC-R15	IC-R6
<b>Frequency coverage</b> (Differs according to version)	0.01 ~ 3000 MHz*3	EUR version: 76 - 108, 108 - 500 MHz	0.1 ~ 1309.995 MHz
<b>Mode</b>	USB, LSB, CW, FSK, AM, FM, WFM, D-STAR (DV), P25, NXDN, dPMR, DCR, S-AM	FM, WFM, AM	FM, WFM, AM
<b>Frequency stability</b>	Less than ±0.5 ppm (at 25°C after warm up)	±2.5 ppm (-20°C ~ +60°C on the basis of 25°C)	±1.0 ppm (at 25°C)
<b>Maximum current drain</b>	2.0 A	380 mA typical (at 3.6 V DC)	130 mA typical (at 3.0 V DC)*4
<b>Antenna connector</b>	ANT1: Type-N (50 Ω), ANT2: SO-239 (50 Ω), ANT3: RCA (500 Ω)	SMA (50 Ω)	SMA (50 Ω)
<b>Dimensions</b> (W x H x D; Projections are not included)	220 x 90 x 230 mm	58 x 116 x 33.8 mm	58 x 86 x 29.8 mm
<b>Weight</b> (approx.)	4.3 kg	260 g with antenna and battery cells	200 g with antenna and battery cells
<b>Sensitivity</b> SSB, CW, RTTY, AM, FSK: at 10 dB SIN FM, WFM: at 12 dB SINAD D-STAR, NXDN, dPMR, DCR: at 1% BER P25: at 5% BER	SSB/CW/FSK (Preamp ON, BW: SSB/FSK=2.4 kHz, CW=0.5 kHz): 0.1 ~ 1.799 MHz 0.5 µV 1.8 ~ 29.999 MHz 0.2 µV 30 ~ 1999.999 MHz 0.32 µV 2000 ~ 3000 MHz 0.4 µV AM (Preamp ON, BW=6 kHz): 0.1 ~ 1.799 MHz 6.3 µV 1.8 ~ 29.999 MHz 2.5 µV 30 ~ 3000 MHz 5.6 µV FM (Preamp ON, BW=15 kHz): 28 ~ 1999.999 MHz 0.5 µV 2000 ~ 3000 MHz 0.63 µV WFM (Preamp ON, BW=180 kHz): 30 ~ 1999.999 MHz 1.4 µV 2000 ~ 3000 MHz 1.8 µV D-STAR (DV)/NXDN/dPMR/DCR (Preamp ON): 28 ~ 1999.999 MHz 0.79 µV 2000 ~ 3000 MHz 1 µV P-25 (Preamp ON): 28 ~ 1999.999 MHz 0.56 µV 2000 ~ 3000 MHz 0.71 µV	FM : 108 ~ 249.995 MHz 0.4 µV 250 ~ 299.995 MHz 0.71 µV 300 ~ 500.000 MHz 0.56 µV WFM : 76 ~ 108.000 MHz 1.0 µV AM : 108 ~ 142.000 MHz 1.0 µV 222 ~ 249.995 MHz 1.0 µV 250 ~ 299.995 MHz 1.8 µV 300 ~ 400.000 MHz 1.4 µV	FM (typical): 1.625 ~ 4.995 MHz 0.32 µV 5 ~ 29.995 MHz 0.25 µV 30 ~ 469.995 MHz 0.18 µV 470 ~ 832.995 MHz 0.32 µV 833 ~ 1029.995 MHz 0.28 µV 1030 ~ 1309.995 MHz 0.35 µV WFM (typical): 76 ~ 108 MHz 1.1 µV 175 ~ 221.995 MHz 1.1 µV 470 ~ 770 MHz 1.8 µV AM (typical): 0.495 ~ 4.995 MHz 1.3 µV 5 ~ 29.995 MHz 0.89 µV 118 ~ 136 MHz 0.63 µV 222 ~ 246.995 MHz 0.63 µV 247 ~ 329.995 MHz 0.79 µV
<b>Sensitivity for RED</b> Preamp ON SSB, AM, FM: at 12 dB SINAD (Only for amateur band. With CCITT filter ON)	SSB, FSK (Less than, BW=2.4 kHz) 0.1 ~ 2.999 MHz 10 dBuV emf 3 ~ 29.999 MHz 0 dBuV emf 30 ~ 3000 MHz -6 dBuV emf AM (Less than, BW=4 kHz) 0.1 ~ 2.999 MHz 16 dBuV emf 3 ~ 29.999 MHz 6 dBuV emf 30 ~ 3000 MHz 0 dBuV emf FM (Less than, BW=7 kHz) 3 ~ 29.999 MHz 0 dBuV emf 30 ~ 3000 MHz -6 dBuV emf	-	-
<b>Selectivity</b>	SSB/FSK (BW=2.4 KHz): More than 2.4 kHz/-3 dB Less than 3.6 kHz/-60 dB CW (BW=500 Hz): More than 500 Hz/-3 dB Less than 700 Hz/-60 dB AM (BW=6 kHz): More than 6.0 kHz/-3 dB Less than 15.0 kHz/-60 dB FM (BW=15 kHz): More than 12.0 kHz/-6 dB Less than 25.0 kHz/-60 dB WFM: More than 180 kHz/-6 dB	AM, FM: More than 50 dB WFM: More than 35 dB	AM, FM: More than 12 kHz/-9 dB Less than 30 kHz/-60 dB WFM: More than 150 kHz/-6 dB
<b>Audio output power</b> (at 10% distortion)	More than 2.0 W (8 Ω load)	More than 400 mW (Internal SP, 8 Ω load) More than 120 mW (External SP, 8 Ω load)	150 mW (Internal SP, 16 Ω load) 80 mW typical (External SP, 8 Ω load)
<b>MIL-STD and IP Rating</b>	MIL-STD-810-G	IPX7	MIL-STD-810-F, IPX2

\*3 Working range. \*4 External SP, backlight OFF.

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## Thank You for a Great 60 Years!

In 2024, Icom is celebrating its 60th Anniversary and has embarked on our journey toward becoming a 100-year old company. As we move into the next chapter, we will continue to support and empower the worldwide ham community providing ever more exciting products. Amateur radio started, built and still plays an important role in Icom's 60 years to date. We do not forget our DNA, commitment to radio technology, and especially all of the loyal users of Icom.

**60th Anniversary  
Celebration Web Page**



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