1.2 kHz Optimum Roofing Filter

Despite the trend to switch to a down conversion or a hybrid conversion receiver design, Icom believes in the solid performance of the up-conversion design. The IC-7851 introduces a new 1.2 kHz Optimum Roofing Filter, greatly improving the in-band adjacent signal performance. This newly developed filter overcomes the gap of a narrower roofing filter in an up-conversion receiver.

Innovative LO Design

Breaking the boundaries of traditional designs, the IC-7851 employs a Direct Digital Synthesizer (DDS) along with a Phase-Locked Oscillator for the LO (Local Oscillator). The C/N ratio excels beyond the IC-7800 and other similar class HF transceivers. This design significantly reduces noise components in both receive and transmit signals.

Improved Phase Noise Characteristics

Phase noise is inherent in any circuit design, and the new LO design introduced in the IC-7851 makes some major breakthroughs while utilizing the 64 MHz, up-conversion receiver design introduced in the IC-7800. An impressive 20 dB improvement is seen with the IC-7851’s 10 kHz measurement, and more than 30 dB improvement at a 1 kHz measurement in comparison to the IC-7800.

Improved Spectrum Scope

Following the design lineage of the IC-7800, the IC-7851 uses a dedicated DSP unit for the Fast Fourier Transform (FFT) spectrum. The dual scope function is vital to watch for multipliers or missing the action.

Digital IF Filter

Icom’s digital IF processing, offering 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.

Other Outstanding Features

(Antenna and receiver) • Two completely independent receivers • 15 kHz, 6 kHz, 3 kHz and 12 kHz 1st IF Roofing filters • Four antenna connectors with automatic antenna selector • Automatic antenna tuner • 50 kHz special preamp and mixer circuit • Digital manual notch • Digital twin PBT eliminates interference from adjacent signals • New auto digital noise blanker • ±0.05 ppm High Stability OCXO Unit (CW mode) • DSP-controlled CW keying waveform shaping • Multi-function electronic keyer with adjustable keying speed, dot-dash ratio and paddle polarity • Audio Peak Filter selection (soft/sharp)

[Operation] • Simplified remote control capability with the optional RS-BA1 Version 2 • High-quality digital voice recorder memory • Built-in RTTY, PSK31 and PSK63 without needing a computer • Message memory for Voice, CW, RTTY and PSK31/33 • Digital video interface (DVI-I) • SD memory card slot • Audio scope function • Mouse control spectrum scope • AGC control • Microphone equalizer and adjustable transmit bandwidth • FFT scope averaging function for PSK and RTTY decode • Screen saver function

Base Station

http://www.icom.co.jp/en/IC-7851_me/
IC-7300
IC-7600

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

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HF/50 MHz TRANSEIVER
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 RMDR (Reciprocal Mixing Dynamic Range).

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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. The optional RC-28 can be used as for main dial and/or the sub dial.

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 Shuts Out Interfering Signals

Both main and sub receivers are equipped with DIGI-SEL (digital preselector) units. The DIGI-SEL has steeper skirt characteristics than normal band-pass filters, so it rejects out of band strong interference, such as broadcast stations, and prevents intermodulation distortion.

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

The real-time spectrum scope of the IC-7610 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. Connecting a PC mouse to the USB port aids in flexible use of the spectrum scope.

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. When you push the multi-dial knob, menu items are shown on the right side of the display. You can select an item with a touch of the screen, and adjust levels by rotating the multi-dial knob.

DVI-D Connector for an External Display Connection

The IC-7610 has a DVI-D connector for an external display. Operating frequency, setting information and spectrum scopes can be observed on a large external display.

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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 information and spectrum scopes can be stored on the SD card/USB memory stick. TX Voice memories and RTTY/CW memories, channels, and antenna settings, can be saved and loaded using the SD card/USB memory stick.

I/Q Signal Output

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

Other Outstanding Features

Transmitter
• 805 kHz carrier frequency
• 8 kHz IF bandwidth
• Conversion loss and distortion 10 dB

[Antenna and receiver]
• BNC type RX I/O Jack 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 demodulator and decoder

[CW mode]
• 805 kHz carrier frequency
• 40 Hz pitch tuning

[RTTY mode]
• 14.2 MHz  Mode: CW, IF BW: 500 Hz
• 2 kHz of fset frequency
• Receive frequency:
  - 14.2 MHz
  - 7.070 MHz
  - 14.025 MHz

[Voice settings]
• 1 kHz pitch tuning
• APF (Audio Peak Filter) function adjustable

[Operating]
• 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 Dual watch function
• 1 Hz pitch tuning and display • 101 Memory channels • Dial lock function • Adjustable main dial friction • External speaker jacks • Transmit power control • VOX (voice operated switch) • TX monitor function
• 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

Base Station
**IC-7700**

**+40 dBm Third-Order Intercept Point (in the HF Bands)**

**Spectrum Scope with Waterfall Function**

200 W Output Power and High-stability Transmitter

More than +110 dBm IP2 (2nd order Intercept Point)

An IP2 point of more than +110 dBm means 2nd order distortion from strong broadcast stations will be completely eliminated.

*The IP2 figure is a typical value.

**High Specification Inband IMD**

All (2nd, 3rd or even higher) orders of IMD performance are superior in the IC-7700. You’ll notice the difference as you copy weak signals without internal distortion or noise, especially evident in the CW mode.

**Spectrum Waterfall Display**

The spectrum waterfall function can show the changing amplitude of frequency spectrum over time. A weak signal which cannot be recognized with the spectrum scope may be found in the waterfall screen. With the high performance receiver, the IC-7700 increases your chances of making QSOs.

**Mouse Operation for Spectrum Scope**

By connecting a PC mouse to the USB port, the spectrum scope operation is possible with a mouse.

**Audio Scope Function for AF Observation**

The audio scope function can be used for observing various AF characteristics such as microphone compressor level, filter width, notch filter and CW keying waveform.

200 W Full Duty Operation

The IC-7700 uses a STAC2942 power amplifier in a push-pull configuration. The digital PSN modulator consistently produces an outstanding signal-to-noise ratio, providing clean and low IMD transmission on all bands.

**Other Outstanding Features**

- Simulated remote control operation with optional RS-BA1 Version 2 • SS0 recording function into USB flash drive: 15 kHz, 6 kHz, and 3 kHz Hi-spec 1st IF filters (rooftop filter)
- Image rejection mixer is used for the 2nd mixer
- Low distortion bandpass filter and mechanical relays • Digi-Sel automatic preselector

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

The IC-7700’s RMDR is improved to about 100 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.

**New “IP+” Function**

The new “IP+” function improves the third order intercept point (IP3) performance. When a weak signal is received adjacent to strong interference, the AD converter is optimized against signal distortion.

**Base Station**

**IC-7300**

**+40 dBm 3rd order Intercept Point and +110 dB Dynamic Range**

The IC-7300 employs mechanical relay BPF switching, a digitally tuned preselector, and three hi-spec 1st IF filters (rooftop filters) in a clean and simple double conversion superheterodyne design. By balancing the analogue and DSP functions, the IC-7700 provides superior sensitivity simultaneously with a superb dynam-ic range of 110 dB, and +40 dBm IP3 (even in the USB mode with a 2.4 kHz filter bandwidth).

**200 W Output Power and High-stability Transmitter**

**RF Direct Sampling System**

Class Leading Real-time Spectrum Scope with Waterfall Function

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.

**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.

**New “IP+”**

The new “IP+” function improves the third order intercept point (IP3) performance. When a weak signal is received adjacent to strong interference, the AD converter is optimised against signal distortion.

**Other Features**

- Audio scope function • Built-in automatic antenna tuner • Multi-diode 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 (the spectrum scope with the waterfall can be observed) • CW functions: Full break-in, CW reverse, CW auto tuning • 70 MHz operation is possible in the European transceiver version
Base Station

HF TRANSCEIVER
IC-718

Simple, Straightforward Operation with Keypad
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 enables 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 Mount 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
Covers Most Functions and Modes
The IC-718 has a 0.03-29.999 MHz* general coverage receive capability.

Interference rejection— IF shift
To reject interference, the IC-718 has an IF shift function which shifts the center frequency of the IF passband electronically to reduce adjacent interference.

Other Features
• Front mounted loud speaker
• General coverage receiver
• Built-in electronic keyer
• 10 Memory channels
• CW full break-in
• IF shift interference rejection
• 1 Hz tuning
• VOX function for hands-free operation
• Optional automatic antenna tuner
• Digital S/R/filter meter

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.

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

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 RTT tuning knob and TX functions are added from Version 2.

Optional USB Remote Encoder RC-28
Covers Most Functions and Modes
Includes D-STAR (Digital Smart Technology for Amateur Radio) DV mode digital twin PBT, noise reduction, CW auto tune, etc. Those digital features work on all bands from HF to VHF/UHF bands.

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

One Touch Selection
For example, if you want to change the operating band, touch the frequency on the display. The band keys will be shown to select the operating band. Touching the multi-function meter indicator for 1 second will quickly change the transmit meter functions.

Simple Operation
For example, when changing the operating band, touch the band on the display. To change the touch screen responds naturally changing your settings.

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.

Multi-Band

HF/VHF/UHF TRANSCEIVER
IC-7100

Intuitive Touch Screen Interface
Controls at Your Fingertips with an Angled Display

Built-in RTTY Functions
The built-in RTTY decoder enables you to instantly read RTTY messages 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 Technology for Amateur Radio) DV mode digital voice and low-speed data communication.

D-STAR (D-STAR Repeater) Function Operation
The D-STAR function operates the D-STAR operation simple and straightforward, even if you are new to D-STAR.

DR (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.

Firmware Update Available (Free Download)
http://www.icom.co.jp/world/support/index.html

Packaging Options

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 VHF/UHF bands.

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™ device (Send and receive pictures)
• 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 call sign squelch (DSQSL) and digital code squelch (CDSQL) + 12.5 kHz IF output for DRM (Digital Radio Mondiale) receive

Front Mounted Loud Speaker
Convenient when changing operating bands.

Front Mount Loud Speaker
Convenient when changing operating bands.

Base Station

HF/VHF/UHF TRANSCEIVER
IC-7100

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Controls at Your Fingertips with an Angled Display

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Front Mounted Loud Speaker
Convenient when changing operating bands.

Front Mount Loud Speaker
Convenient when changing operating bands.
**Indoor 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 class 100/75/100W). 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.

**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.

**Real-Time Spectrum Scope with Waterfall Display**

This is the first time for an Icom VHF/UHF transceiver to have a real-time spectrum scope and waterfall display comparable to an HF hi-fi transceiver. With the high-speed spectrum scope, you can instantly see any strong signals in the band that can be easily overlooked.

**Perfect Companion of the IC-9700**

This is a comparison between two transceivers’ rear chassis temperature when continuously transmitting for 15 minutes. The IC-9700 keeps 65 °C while the IC-910 keeps 70 °C. Japanese version example when listening at 50 W.

**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 receiving 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 keywning 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**

- 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 ...

**Lightweight & Compact Design**

The ID-51E PLUS2 is a 5 W VHF/UHF dual bander, with D-STAR and integrated GPS receiver.

**Terminal/Access Point mode**

Connect the ID-51E PLUS2 to the Internet through a PC or Android™ device, and send your voice and/or data through the Internet gateway to a destination repeater.

**Built-in TCXO/DTCs**

The CTCS and DTCs tone codes provide quiet stand-by and allow you to use tone- accesses repeaters. The pocket beep alerts you when a matching tone frequency is received. The tone scan detects the subaudible tone which is used for repeater access.

**Internal VOX function**

The IC-8500 has internal VOX (Voice Operated Transmit) function for convenient hands-free operation with a compatible optional headset and plug adapter cable. Also, the VOX gain and VOX delay time are adjustable.

**Other Features**

- Frequency coverage: (TX/RX: 144–146 MHz)
- Program scan, memory scan, skip, priority scan and tone scan • 1750 Hz tone for European repeater access • TOT (time out timer) • Repeater lockout and busy channel lockout • PC programmable with optional CS-V80 • Transceiver-to-transceiver cloning (Optional) • Direct keypad frequency entry • DTMF autobaud • Memory # • Audio power off • Widenarrow channel spacing
**Intuitive Touch Screen Operation**

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

**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.

**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 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 1000 • 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 frequency, mode and received call sign (DV mode) • AM airmail Dualwatch • CS-5100, programming software supplied • 1750 Hz tone burst • Receiver range differs depending on version.

**Terminal Mode and Access Point Mode**

- Terminal and Access Point modes enable you to enjoy long-distance D-STAR communication through the Internet. You can access D-STAR repeaters through the Internet, regardless of locations and conditions of nearby repeaters.

- An optional UT-133A Bluetooth® unit must be installed in the IC-2730E.

**Easy-to-Read Full Dot-Matrix Display**

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

**Independent Controls for Each Band**

- Operations are 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 straightforward and smooth.

**DR (D-STAR Repeater) Function**

The DR function makes D-STAR communications simple. By simply selecting a destination call sign in “From” you can talk with other D-STAR users.

**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+ 5 W of output on VHF/FM/UF/FM/FM+ • Built-in CTCSS and DTCS tones with split tone functions • Wide band receiver (118–174 and 375–550 MHz)* • 50W output power • Repeater memory channels increased to 1000 • 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 frequency, mode and received call sign (DV mode) • AM airmail Dualwatch • CS-5100, programming software supplied • 1750 Hz tone burst • Receiver range differs depending on version.

**Compact, Detachable Controller for Flexible Installation**

- The controller can be attached or detached from the main unit for flexible installation. By using the supplied OPC-837 controller cable, you can install the controller up to 3.5 meters away from the main unit.

- * Receiver range differs depending on the version.
COMMUNICATIONS RECEIVER

IC-R6000

Superb Receiver Performance
The IC-R6000 has 11 discrete R6 bandpass filters in the HF bands and 13 bandpass filters in the VHF/UHF bands. To prevent overloading, only the intended signal is passed, while any out of range strong interference signals are rejected. The IC-R6000 provides ±0.01 dB IP3 and 106 dB dynamic range at 14.1 MHz. IP3 performance is ±0.1 dB at 144 MHz and 0 dB at 440 MHz.

Variety of Scan Functions
A variety of scan functions effectively and thoroughly search for desired stations. The IC-R6000 scans up to 100 channels per second in the memory scan mode.

I/Q Signal Output
The I/Q signal output function enables you to derive digital IF signals from the I/Q output port to a PC through a USB cable. It can be used for analyzing spectrum or decoding signals. The IC-R6000 outputs I/Q data to the third-party software HSDR, and the IC-R6000 can be controlled by the HSDR.

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 sweep speed, ±2.5 MHz wide scope span (display range) and 110 dB of dynamic range (at ±2.5 kHz span). The waterfall screen enables you to find weak signals by showing the spectrum change over time.

Quick, Smooth and Intuitive Operation
To efficiently acquire intended signals, the IC-R6000 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.

IC-R6000 uses Digital Protocols P25, NXDN™, dPMR™, D-STAR, Japanese domestic 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-R6000 utilizes FPGA (Field Programmable Gate Array) and DSP units for demodulation, decoding and most of signal processing. Direct IF 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-sensitivity 122.88 MHz sampling frequency used for the A/D converter results in superior aliasing and image rejection reduction.

COMMUNICATIONS RECEIVER

IC-R30

Dualwatch and Dual Recording
The IC-R30 can receive on different bands and different modes. The audio of the two bands received while in the Dualwatch mode, can be individually recorded onto a microSD card in WAV format. The recorded audio can be played back on the receiver or a PC.

Other Features
• 1000 Memory Channels with 22 Memory Banks • Voice Squelch Control • Built-in audio low filter pass filter ±1.5 ppm high frequency stability
• USB charging and PC connection • microSD card slot + DTCS and CTCSS tone squelch and reverse tone squelch + Voice squelch control
• CTCSS and DCS decoding • Priority scan, Tone scan and more.
• Frequency range depending on version.
• VFO mode scanning.

IC-R30 can receive on different bands and different modes. The audio of the two bands received while in the Dualwatch mode, can be individually recorded onto a microSD card in WAV format. The recorded audio can be played back on the receiver or a PC.

IC-R30 has variety of scan functions; Auto memory scan, Tone scan, Programmed scan, Memory scan, priority scan, auto memory write scan and more.

15 Hours of Continuous Receive Capability
The IC-R30 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-R30 can receive on different bands and different modes. The audio of the two bands received while in the Dualwatch mode, can be individually recorded onto a microSD card in WAV format. The recorded audio can be played back on the receiver or a PC.

0.01–3000 MHz Super Wideband Coverage
The IC-R6000 decodes various digital protocol signals including P25 (Phase 1, NXDN™, dPMR™, D-STAR, Japanese domestic 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.

0.1–1399.995 MHz Wideband Coverage
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.

Top Level Scan Speed – 200 Channels/Second
The IC-R6 scans approximately 200 channels per second in the A band. You can quickly find and lock in to a desired signal. The IC-R6 has variety of scan functions; VFO mode scan (Auto memory write scan, Program scan), Memory scan (Near station scan, Mode scan, Group scan, Group link scan), Priority scan, Tone scan and more.

Remote Control Application
The RS-R30 for iOS™, and the RS-R30A for Android™ devices, and the RS-R30A for Android™ devices enable you to wirelessly connect to the IC-R30 through Bluetooth® (BLE), and remotely control VFO operation, memory channels, a variety of scans and the voice recording function.

Other Features
• Built-in voice synthesizer + Band scope function + IP57 dust-proof and waterproof protection + Up to 8.3 hours of long battery life
• USB charging and PC connection + microSD card slot + DTCS and CTCSS tone squelch and reverse tone squelch + Voice squelch control

Comodations
The dualwatch function is ON (A band continuously receiving. Bandstandbnding), the PowerSave function is set to “20,” the GPS function is ON, and the Bluetooth function is OFF.

USB charging and PC connection + microSD card slot + DTCS and CTCSS tone squelch and reverse tone squelch + Voice squelch control

* SSB, CW and digital modes: 0.1 MHz–1.3 GHz.

Other Features
• 1300 Memory Channels with 22 Memory Banks • Voice Squelch Control • Built-in audio low filter pass filter ±1.5 ppm high frequency stability • Built-in voice synthesizer + Band scope function + IP57 dust-proof and waterproof protection + Up to 8.3 hours of long battery life

The IC-R6000 utilizes a scanning and demodulation unit for DCS and adds Bluetooth® (BLE) for wireless operation. The IC-R6000 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-R6000 can receive on different bands and different modes. The audio of the two bands received while in the Dualwatch mode, can be individually recorded onto a microSD card in WAV format. The recorded audio can be played back on the receiver or a PC.

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• USB charging and PC connection + microSD card slot + DTCS and CTCSS tone squelch and reverse tone squelch + Voice squelch control

Comodations
The dualwatch function is ON (A band continuously receiving. Bandstandbnding), the PowerSave function is set to “20,” the GPS function is ON, and the Bluetooth function is OFF.

USB charging and PC connection + microSD card slot + DTCS and CTCSS tone squelch and reverse tone squelch + Voice squelch control

* SSB, CW and digital modes: 0.1 MHz–1.3 GHz.
# OPTIONS FOR BASE STATION TRANSCEIVERS AND RECEIVERS

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## EXTERNAL SPEAKERS

<table>
<thead>
<tr>
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<th>DC POWER</th>
<th>USB Remote Encoder</th>
<th>OPC-2253</th>
<th>OPC-3253</th>
<th>OPC-3254 5.0 m</th>
<th>OPC-589 8-pin connector microphone to 8-pin modular</th>
<th>OPC-599 8-pin connector to type 7-8-pin ACC sockets</th>
<th>OPC-023A 20 A cable</th>
<th>OPC-1437R 10 A cable</th>
<th>OPC-1428R 10 A cable</th>
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## PROGRAMMING SOFTWARE

<table>
<thead>
<tr>
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<th>DATA COMMUNICATION CABLES</th>
<th>REMOTE CONTROL SOFTWARE</th>
<th>B7 REMOTE DECODER</th>
<th>E1 COMMUNICATOR</th>
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</table>

**Free download Android™ app. Download from Google Play™.**

**This function requires firmware version 1.2 or later.**

---

Note for the Terminal mode and Access point mode (For only the IC-9700):

- Before operating in the Terminal mode or the Access Point mode, make 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-DPC installed.
### OPTIONS FOR HANDHELD TRANSCEIVERS AND RECEIVERS

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<th>BATTERY PACKS</th>
<th>EXCHANGER</th>
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<tbody>
<tr>
<td>BP-272</td>
<td>LR9AA(×3 cells)</td>
<td>BP-271 (w: 14 V)</td>
<td>3500 mAh (Typ.), 3200 mAh (Min.)</td>
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<tr>
<td>BP-265</td>
<td>LR9AA(×3 cells)</td>
<td>BP-273 (w: 14 V)</td>
<td>1900 mAh (Typ.), 2000 mAh (Min.)</td>
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<tr>
<td>BP-264</td>
<td>LR9AA(×3 cells)</td>
<td>BP-266 (w: 14 V)</td>
<td>1900 mAh (Typ.), 2200 mAh (Min.)</td>
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<tr>
<td>BP-268</td>
<td>BP-36VDC</td>
<td>BP-267 (w: 14 V)</td>
<td>13.6 V, 1000 mAh (Typ.), 1300 mAh (Min.)</td>
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#### CHARGER BRACKET

<table>
<thead>
<tr>
<th>MODEL NAME</th>
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<th>IC-V80E</th>
<th>IC-R30</th>
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#### EARPHONES

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#### PROGRAMMING CABLES

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#### Bluetooth® HEADSET

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#### OPTIONS FOR HANDHELD TRANSCEIVERS AND RECEIVERS

#### HEADSETS

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<thead>
<tr>
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<th>EARPHONES</th>
<th>PLUG ADAPTER CABLES</th>
<th>REMOTE CONTROL SOFTWARE</th>
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<tr>
<td>HS-97</td>
<td>Three microphone type</td>
<td>SP-40</td>
<td>OPC-2004</td>
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#### EARPHONES

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#### PLUG ADAPTER CABLES

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<th>EARPHONES</th>
<th>PLUG ADAPTER CABLES</th>
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#### CARRYING CASES

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#### OPTIONS FOR HANDHELD TRANSCEIVERS AND RECEIVERS

#### DESKTOP CHARGERS

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#### MULTI/CHARGER

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#### AC ADAPTERS

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#### DC POWER CABLES

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#### SILENCE JACKET CASE

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#### SPEAKER-MICROPHONES

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### 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.
- An optional free download software, RS-MS3W is required to be installed in a PC. An optional free download application, RS-M3SA is required to be installed in the Android™ device.
- You need an Internet connection with an IPv4 Global IP address. If you use a cellular router, you need an IPv4 Global IP address assigned to your Wi-Fi router and the Android™ device.
- When you operate 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.

---

*1 Either AD-120 (for BP-264) or AD-121 (for BP-265) charger adapters are supplied with the BC-197, depending on BC-197’s version.

*2 CS-51 PLUS2 is available for free download from: http://www.icom.co.jp/world/support/index.html

*3 Free download Android™ app. Download from Google Play™.

*4 Free download software for Windows® PC. Download from the Icom website: http://www.icom.co.jp/world/support/download/firm/

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OPTIONS FOR MOBILE TRANSCEIVERS

ID-5100E
ID-4100E
IC-2700E

CONTROLER BRACKETS EMBLEM(S)® EXTERNAL SPEAKERS EXPOSURE CABLES BACK CABLES BRACKET CALLS CONTROLL ER CALLS DATA CABLES

MODEL NAME MBA-8 MBA-5 MBA-4 SP-35 SP-35 2 m cable SP-30 SP-30 1.8 m cable OPC-400A OPC-400A 3.5 m cable OPC-589 OPC-589 length connecting microphone to filter module OPC-1136 OPC-1136 3.5 m OPC-1539F OPC-1539F RS-232 cable

ID-5100E
ID-4100E
IC-2700E

DATA CABLES FERRABING (DSL) CLOSING CABLE BLUE TOOTH® UNITS MODBUS (OPC) REMOTE CONTROL SOFTWARE

MODEL NAME OPC-3330U OPC-470UC OPC-474F OPC-3430 OPC-3430 OPBritish® OPC-3430 OPC-3430 MS-M3A OPC-3430 OPC-3430 MS-M3W OPC-3430 OPC-3430 MS-M1A OPC-3430 OPC-3430 MS-M1F OPC-3430 OPC-3430

IC-7851
IC-7610
IC-7700
IC-7300

frequency coverage

IC-7851
IC-7610
IC-7700
IC-7300

Notes on 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. • An optional free download software, RS-MS3W is required to be installed in a PC. An Internet connection with an IPv4 Global IP address. If you use a cellular system, you need an Internet connection with an IPv4 Global IP address. If you use a cellular system, you needs an Internet connection with an IPv4 Global IP address. If you use a cellular system, you need an Internet connection with an IPv4 Global IP address. If you use a cellular system, you need an Internet connection with an IPv4 Global IP address.

functions or laws. • An optional free download software, RS-MS3W is required to be installed in a PC. An Internet connection with an IPv4 Global IP address. If you use a cellular system, you need an Internet connection with an IPv4 Global IP address. If you use a cellular system, you need an Internet connection with an IPv4 Global IP address. If you use a cellular system, you need an Internet connection with an IPv4 Global IP address. If you use a cellular system, you need an Internet connection with an IPv4 Global IP address. If you use a cellular system, you need an Internet connection with an IPv4 Global IP address.

*2 RS-MS1A/RS-MS1I Remote Control App required. Not all functions are usable with the IC-7100.

*3 RS-MS1A/RS-MS1I Remote Control App required. Not all functions are usable with the IC-7100.

*4 RS-MS1A/RS-MS1I Remote Control App required. Not all functions are usable with the IC-7100.

*5 RS-MS1A/RS-MS1I Remote Control App required. Not all functions are usable with the IC-7100.

*6 RS-MS1A/RS-MS1I Remote Control App required. Not all functions are usable with the IC-7100.

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

All stated specifications are subject to change without notice or obligation.
## SPECIFICATIONS FOR BASE STATION TRANSCEIVERS

<table>
<thead>
<tr>
<th><strong>IC-718</strong></th>
<th><strong>IC-7100</strong></th>
<th><strong>IC-9700</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency coverage</strong> (When accessing in voice):</td>
<td>1.8, 1.8, 5, 7, 14, 16, 21, 24, 28 MHz bands</td>
<td>1.8, 1.8, 5, 7, 14, 16, 21, 24, 28, 32, 36-40 MHz, 144–146, 430–434 MHz bands</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>21 dBμV (at 6 dBm input)</td>
<td>21 dBμV (at 5.5 dBm input)</td>
</tr>
<tr>
<td><strong>Modes</strong></td>
<td>USB, LSB, CW, RTTY, AM, FM, WFM, SSB</td>
<td>USB, LSB, CW, RTTY, AM, FM, WFM, SSB</td>
</tr>
<tr>
<td>Speed (Receiving namely)</td>
<td>120°C (max)</td>
<td>120°C (max)</td>
</tr>
<tr>
<td>Speed (Receiving namely)</td>
<td>20°C (max)</td>
<td>20°C (max)</td>
</tr>
<tr>
<td><strong>Frequency stability</strong></td>
<td>±0.3 ppm (at 10°C to +50°C)</td>
<td>±0.3 ppm (at 10°C to +50°C)</td>
</tr>
<tr>
<td><strong>Modes</strong></td>
<td>AM (6 kHz, 60% modulation):</td>
<td>AM (6 kHz, 60% modulation):</td>
</tr>
<tr>
<td>SSB, CW, RTTY, FM, AM</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating temperature range</strong></td>
<td>-20°C to +50°C</td>
<td>-20°C to +50°C</td>
</tr>
<tr>
<td><strong>Travel power</strong></td>
<td>420 x 220 x 120 x 25 mm</td>
<td>420 x 220 x 120 x 25 mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>3.5 kg</td>
<td>3.4 kg</td>
</tr>
</tbody>
</table>

**Europe version:**
- Frequency coverage: 144.00–146.00 MHz
- Sensitivity: 21 dBμV (at 5.5 dBm input)
- Speed (Receiving namely): 20°C (max)
- Frequency stability: ±0.3 ppm (at 10°C to +50°C)

**UK version:**
- Frequency coverage: 144.00–146.00 MHz
- Sensitivity: 21 dBμV (at 5.5 dBm input)
- Speed (Receiving namely): 20°C (max)
- Frequency stability: ±0.3 ppm (at 10°C to +50°C)

---

## SPECIFICATIONS FOR HANDHELD AND MOBILE TRANSCEIVERS

<table>
<thead>
<tr>
<th><strong>ID-518</strong></th>
<th><strong>ID-860</strong></th>
</tr>
</thead>
</table>
| **Frequency coverage** (FM: at 12 dB SINAD) | Europe version: 144.00–146.00 MHz
| | UK version: 144.00–146.00 MHz
| **Modes** | FM, FM-N, AM (Rx only), WFM (Rx only)
| **Max. current drain** | 2.0 A
| **Number of Memory channels** | 99 (10 regular, 10 scan edges and 1 call channel)
| **Dimensions** | 58 x 33 x 20 mm
| **Weight** | 830 g
| **Output power (max)? | More than 200 mW (External SP, 80 dBm)

**ID-5100E**

<table>
<thead>
<tr>
<th><strong>ID-5100E</strong></th>
<th><strong>ID-2370E</strong></th>
</tr>
</thead>
</table>
| **Frequency coverage** (FM: at 12 dB SINAD) | Europe version: 144.00–146.00 MHz
| | UK version: 144.00–146.00 MHz
| **Modes** | FM, FM-N, AM (Rx only), WFM (Rx only)
| **Max. current drain** | 2.0 A
| **Number of Memory channels** | 99 (10 regular, 10 scan edges and 1 call channel)
| **Dimensions** | 58 x 33 x 20 mm
| **Weight** | 830 g
| **Output power (max)? | More than 200 mW (External SP, 80 dBm)

All stated specifications are subject to change without notice or obligation.
### SPECIFICATIONS FOR RECEIVERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency coverage</th>
<th>Sensitivity</th>
<th>Selectivity</th>
<th>Audio output power</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-R8600</td>
<td>0.01–3000 MHz</td>
<td>SSB/CW/FSK (Preamp ON, BW: SSB/FSK=2.4 kHz, CW=0.5 kHz): 0.1–1.799 MHz 0.2 μV 1.8–29.999 MHz 2.5 μV 30–1999.999 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 14 μV D-STAR (DV)/NDXN/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</td>
<td>IC-R30</td>
<td>IC-R6</td>
<td></td>
</tr>
</tbody>
</table>

**Frequency coverage**

<table>
<thead>
<tr>
<th>Mode</th>
<th>A band:</th>
<th>B band:</th>
<th>A band:</th>
<th>B band:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-R8600</td>
<td>0.1 – 3304.999 MHz</td>
<td>108 – 520 MHz</td>
<td>0.1 – 1309.995 MHz</td>
<td></td>
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</tr>
<tr>
<td>IC-R30</td>
<td></td>
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<tr>
<td>IC-R6</td>
<td></td>
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</tbody>
</table>

**Selectivity**

<table>
<thead>
<tr>
<th>Mode</th>
<th>CW (BW=500 Hz): More than 3.6 kHz/60 dB</th>
<th>Less than 0.8 kHz/–3 dB</th>
<th>Less than 0.8 kHz/–3 dB</th>
<th>Less than 0.8 kHz/–3 dB</th>
<th>More than 180 kHz/–6 dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-R8600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-R30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-R6</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Audio output power**

<table>
<thead>
<tr>
<th>Mode</th>
<th>More than 2.0 W (with warm up)</th>
<th>More than 2.0 W (with warm up)</th>
<th>More than 2.0 W (with warm up)</th>
<th>More than 2.0 W (with warm up)</th>
<th>More than 2.0 W (with warm up)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-R8600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IC-R30</td>
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<td></td>
</tr>
<tr>
<td>IC-R6</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Mode</th>
<th>IC-R8600</th>
<th>IC-R30</th>
<th>IC-R6</th>
</tr>
</thead>
<tbody>
<tr>
<td>A band:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B band:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A band:</td>
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<td></td>
</tr>
<tr>
<td>B band:</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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