High Stability, High Spectral Purity Local Oscillator

Full Duty 200 W Output Power

1.2 kHz Optimum Roofing Filter Greatly Improves In-band Adjacent Signal Performance

Audio Scope and Oscilloscope for Observing Receive and Transmit Audio

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At a 1 kHz offset frequency. Receive frequency: 14.2 MHz

The result was a RMDR of 110 dB*. Below is a
reduce the phase noise that degrades the target
radio receivers. The goal was to dramatically
engineers for the Local Oscillator (LO) enable
IC-7851 to set a new benchmark for amateur
Engineers for the Local Oscillator (LO) enable
Phase noise is coherent in radio circuit design,
intercept point and 110 dB receiver dynam-
Continuous Phase Noise Characteristics

Phase noise is coherent in radio 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. In addition, the IC-7851 makes some major improvements in the down-conversion receiver as well. The IC-7800's 4 kHz 1st IF ROOFING FILTER is replaced by a new 1.2 kHz 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 CN ratio excels beyond the IC-7800 and other similar class HF transceivers. This design significantly reduces noise compo-
ents in both receive and transmit signals.

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 2250 MLOPS DSP processor enables a new dual scope function, significantly faster sweep speeds, and better accuracy than in the IC-7800.

Full Duty 200 W Output Power

The push-pull power amplifiers using power MOSFETs work on 48 V DC. They provide a powerful 200 W output power at full duty cycle. An effective cooling system maintains internal temperatures within a safe range and prevents thermal runaway.

Digital IF Filter

ICOM's digital IF filters give you performance that is not possible with crystal or mechanical filters. They allow the operator to adjust filter shape (sharp or soft), filter bandwidth, and center frequency characteristics, without miss-

Other Outstanding Features

[Antenna and receiver] Two completely inde-
pendent receivers • 15 kHz, 6 kHz, 3 kHz and 1.2 kHz 1st IF Roofing filters • Four antenna connec-
tors with automatic antenna selector • Automatic antenna tuner • 50 MHz 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

[Operation] Simplified remote control capabil-
ity with the optional RIG-PACK • High-
quality digital voice recorder memory • Built-in RTTY, PSK31 and PSK63 without needing a computer • Message memory for Visa, CW, RTTY and PSK31/3 • Digital video interface (DVII-1) 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
**IC-7610**

**HF/50 MHz TRANSCEIVER**

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

The RF direct sampling system directly converts the analog signals to digital signals, and collectively puts the data through FPGA (Field-Programmable Gate Array) processing. The master clock uses a high precision VXCO (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 Ratio).

* At 2 kHz frequency separation.

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**Other Outstanding Features**

- **[Antenna and receiver]** - BNC type RX IN/OUT connectors + Built-in automatic antenna tuner
- **[Tuner]** - TX monitor function + All mode
- **[Audio]** - VOX (voice operated transmitter) + RTTY (radio teletypewriter) + RIT (relative intercept point)
- **[Power control]** - TX variable up to 9.999 kHz + UTC/UTC + CTCSS (Continuous Tone Coded Squelch System) + DTMF (Dual Tone Multi-Frequency) + DTMF + CTCSS + MSK (Multichannel Subaud FM)
- **[Connectors]** - 7 -inch wide color TFT LCD
- **[Configuration]** - Two types of preamplifiers + 50 CTCSS + 3 dB – 45 dB
- **[Remote control]** - Optional RS-BA1

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**Base Station**
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.

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.

Audio Scope Function for AF Observation
The audio scope 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 drastically improve the signal purity.

Clarity of CW Keying Waveform
Thanks to these features, though it is a commercial transceiver, you can check the real-time spectrum scope and quickly move to an intended signal.

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

High Stability Transmitter
with Waterfall Function
The IC-7700 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.

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 optimised against signal distortion.

The IC-7300 is equipped with 15 discrete band-pass filters. The RF signal is only passed through one of the band-pass 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 baseband. Mathematical frequency conversions within the FPGA drastically improve the signal purity. Thanks to these features, the IC-7300 enjoys exceptionally high quality, and rich sound which normally can only be expected from a higher class radio.

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

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.

15 Discrete Band-pass Filters
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Base Station

HF/50 MHz TRANSCEIVER
IC-7700

HF/50 MHz TRANSCEIVER
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Large Touch Screen Color TFT LCD
The large 4.3 inch color 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  • 400W* power output  • A large and effective cooling fan system  • Multi-function menu  • 101 Memory channels (99 regular, 2 scan edges)  • Optional RS-BA1 interface for control software (the spectrum scope with the waterfall can be observed)  • CW functions: Full break-in, CW reverse, CW auto tuning
**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 stop function is activated when the dial is turned 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 USB Remote Encoder with Dual Spectrum Scopes

Optional UT-106

Easy and quick operation for setting and editing various functions and memories. Just touch the mode, filter, function etc., you need to change the transmit function meter indicator for 1 second will quickly change the transmit function meter.

Optional UT-106

- 12.5 kHz IF filter
- ±0.5 ppm frequency stability
- Auto tuning stop
- 495 regular, 4 call, 6 scan edge memories
- Multi-function meter
- Voice memory function
- Multi-plexer function
- CW full break-in
- A high-performance 32-bit floating point IF DSP delivers rich digital signal processing features, including digital IF filter, digital twin IFBT, noise reduction, CW auto tune, etc. Those digital features work on all bands from HF to VHF/UHF bands.

HF/VHF/UHF TRANSCEIVER

IC-7100

Digital Features Controlled by the IF DSPs

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

**Multi-Band**

**D-STAR**

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 MBI-1/RS-AS1A1 remote control software for an Android™ devices (Send and receive data) • Optional RS-BA1/KV (remote control software) • CW full break-in, CW receive reverse, CW auto tune • 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 memories • ±0.5 ppm frequency stability • Auto reply function* • Digital call sign squelch (DCS) and digital code squelch (DCSOL) • 1.25 kHz IF output for DMR (Digital Radios Mondiale) receive

* External GPS receiver or manual position data input required.
FPGA can instantly see the spectrum scope, you With the high-speed display comparable to an HF high tier transceiver. This is the first time for an Icom VHF/UHF transceiver.

**Real-Time Spectrum Scope**

The outcome is that the signal purity is very high, even when continuously transmitting for a long time. The IC-9700 has 96 satellite memory channels.

**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 100W/15W/10W). The cooling system prevents the PA from overheating, even when continuously transmitting. The IC-9700 includes water cooling when operating at high power levels.

**D-STAR Operation**

The IC-9700 has the D-STAR Repeat (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 Internet mode or Access Point mode without any software applications.

**Comprehensive Menus for Satellite Operation**

The Normal and Reverse Tracking Functions simultaneously increase or decrease both the downtick 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 96 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**

- Loud and clear audio: Compatible with the RS-BA1 keyer, built-in voice memo, and CI-V commands.
- Built-in server function: Digital Twin PBT, CW functions: Full break-in, CW memory keyer, CW reverse, CW auto tuning, SK-1000, and more.
- TX/RX audio recording: Screen capture and more.

**Lightweight & Compact Design**

The IC-9700 has a 1500 mW Powerful Audio output, which can be used for outdoor use. The battery pack has 2250 mAh (typical) capacity. You can use the radio up to 19 hours.*

**Class Leading 7 W Output Power**

The 7 W output power and the newly designed amplifier can increase the communication coverage. Compared to the previous model, IC-V80 (5.5 W), the coverage area is increased by 15 times.

19 Hours of Long Battery Life

The BP-206 battery pack has 2250 mAh (typical) capacity. You can use the radio up to 19 hours.*

**Built-in CTCSS/DTCS**

The CTCS and DTCS tone codes provide quiet stand-by and enable you to use tone-access repeaters. The tone scan detects the suitable tone that is used for repeater access.

**Internal VOX Function**

The IC-V86 has internal VOX (Voice Operated Transmit) function for convenient hands-free operation with a compatible optional headset and plug adapter cord. Also, the VOX gain and VOX delay time are adjustable.

**User selectable Volume Level, VFO/Memory Channel selection control • Supplied BC-240, battery charger with a charging control function that prolongs the life of the battery • Integrated VOX function • 200 memory channels, 1 Call channel and 6 scan edges Priority, program, memory, skip and tone scanning.
**SELECTABLE LCD/KEY BACKLIGHT COLOR**

For flexible installation, the latest Icom user interface is compatible with the optional MBF-1 Bluetooth® headset. Easy controller mounting with the optional MBF-1 reduces suppression from strong signals and three programmable keys and a PTT button. The Headset VS-3 provides easy tilt and swivel adjustments.

**DV/DV Dualwatch**

The DV-5100A can receive both PM/FM and FM/FM 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.

*Vehicle installation example:

DV/DV Dualwatch (DR function example)

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 and can be easily removed.

**Other Features**

- CTCSS and DTCS tones are built-in for cloning capability
- 65 W of output power
- Built-in CTSS and DTCS tones with split tone functions
- Repeatback is required.
- Selectable squelch backlight color (amber, yellow and green)
- Time-out timer
- Repeater lockout
- Automatic repeater function

**Stable 65 W of Output Power**

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

**Built-in CTSS and DTCS Encoder/Decoder**

The CTSS and DTCS tones are built-in for quiet stand-by and repeater access. The tone scan function detects the subaudible tone that is used for repeater access. The pocket beep function gives an audible and visual indicator of an incoming call. The DTCS encoder function (DTCS transmit only) is also available.

**Efficient Power Supply**

The 4.5 W audio output provides loud and clear audio.
**COMMUNICATIONS RECEIVER**

**IC-R9500**

**Superb Receiver Performance**

- **Frequency range:** 0.005–3335 MHz*1
- **Wideband Coverage:** 0.005–3335 MHz
- **SSB, AM, FM, WFM, CW, FSK and P25** features
- **Monitoring and listening activities**

**Dynamic Range**

- 109 dB dynamic range at 14.1 MHz.

**D-MOS FET Array**

- The IC-R9500 achieves its amazing performance by using a D-MOS FET array in the 1st stage.

**Superb Receiver Performance**

- The IC-R9500 covers 0.005–3335 MHz*1 in SSB, AM, FM, WFM, CW, FSK and P25** modes.
- It is suitable for a wide variety of radio monitoring and listening activities.

**Five Roofing Filters**

- The IC-R9500 has 5 independent roofing filters (24Ω, 50, 15, 6 and 3 kHz) for improved selectivity. In very crowded RF spectrum conditions, it is extremely important to prevent overload and strong signals. The 3 kHz roofing filter provides a 130 dB (approx.) blocking dynamic range.
- At 15 MHz reception, with 5 kHz separation signals, ±0.05 ppm High Frequency Stability
- The IC-R9500 uses an OCXO (Oven Control Crystal Oscillator) unit which provides ±0.05 ppm frequency stability from 0°C to 50°C. The 10 MHz reference frequency can either be supplied to or input from external equipment.

**Multi Function Spectrum Scope**

- The IC-R9500 has four different display modes such as normal/white and centered/boxed. The spectrum scope normally covers a range from ±2.5 kHz to ±25 kHz, while the wide band scope spectrum observes up to ±500 MHz (+10 MHz, +25 MHz, ±50 MHz, ±100 MHz, ±250 MHz and ±500 MHz selectable). When using the normal spectrum scope mode, the digital scope’s filter width can vary from 200 Hz to 20 kHz with a variable sweep speed. The peak search function automatically moves the display marker to the strongest signal on the scope screen. In addition to these features, the scope has 3 levels of attenuation (10 dB, 20 dB, 30 dB).
- The IC-R9500 includes a VGA connector allowing you to connect an external display with digital video signal. The multi-function spectrum scope is designed in vivid color. The background color is selectable from black or blue for your preference. In addition, the IC-R9500 has a VGA connector allowing you to connect an external monitor.

**Multiple R55**

- 5-meter, dBm, dBuV (emf) and dBm filter types are selectable in the IC-R9500. The dBuV, dBmV and dBm filter have ±3 dB of accuracy*. (* 10 to 70 dBμ signal from 100 kHz to 3335 MHz at 25°C)

**Other Features**

- [Receive assistant functions]
  - Digital voice recorder • Dual DSP • Digital IF filter • Digital twin PFT • Noise blanker • XN coercion • Synchronous AM detection • FSK demodulator and decoder • 10 VFOs • 1220 Memory channels • Multiple-scan functions • Voice synthesizer • USB connector • SSB/CW/WAM mode auto tuning function • AFSK function compensation for frequency shifts (FM/WFM mode only) • CW-R (reverse mode) • Preampl and attenuator • 1/4 tuning step function and dial function • IF filter (Audio Peak Filter) • AGC (Automatic Gain Control) • VSC (Voice Squelch Control) • Input overload protection (HF bands only) • Optional P25 digital mode reception • CI-V interface and RS-232C for remote control • 4 antenna connectors: an SO-239, a phono (RCA) connector and two type-N connectors
- 5-pin DIF output jack • Video output/output • Clock function • IF output jack (10.7 MHz) • CTGSS and DTCS tone squelch • Simplified frequency calibration using WWV or WWVH

**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-R8600 outputs I/Q data to the third-party software HDSDR, and the IC-R8600 can be controlled by the HDSDR.
- The remote control function requires firmware version 12 or later. Download the IC-R8600 USB I/Q package for HDSDR.

**IC-R8600**

**Decode Digital Protocols**

- P25 (Phase 1, 1200 bps, dPMR™, D-STAR, Japanese DCR (Digital Convenience Radio)). It also receives conventional analog signals such as USB, FSK, CW, AM, S-AM (Synchronous-AM), FM and WFM modes, covering 10 kHz to 3 GHz wideband in 1 Hz steps.
-Decode Digital Protocols
- 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 digital methods are used for analysis and processing of signals.

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

- The IC-R8600 scans up to 100 channels per second in the memory scan mode.
- Program scan/Fine program scan • Step scan • 1 kHz scan • Priority scan • Memory scan • Selected mode memory scan • Auto memory write scan

**Superb Receiver Performance**

- The IC-R8600 has 11 discrete RF bandpass filters in the HF bands and 13 bandpass 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 440 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/Frame program scan • Step scan • 1 kHz scan • Priority scan • 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, ±2.5 MHz wide scope display (display range) and 110 dB of dynamic range (at ±2.5 kHz scan). 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 color display, with touch screen function, is configured to collect operating information. By tapping icons and icons on the screen, the setting menu will pop up and parameters can easily be adjusted.

**Remote Control Software RS-R8600**

- The RS-R8600 remotely controls the IC-R8600 through an IP Network or a USB cable (direct PC connection), and provides high quality audio with low latency. Up to 256 network receivers can be registered (select one of these receivers to operate.) Record received audio using the PC Utility and save it on a PC storage device.

**Card slot for receiver recorder • Absolute Value of RSSI (Received Signal Strength Indicator) • 2000 regular Memory channels • Remote control function through IP network or USB cable (Select one of these receivers to operate.)**

- Record received audio using the PC Utility and save it on a PC storage device.

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IC-R30

**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 the WAV format. The recorded audio can be played back on the receiver or a PC.

- **Decodes Digital Protocols**
- The IC-R30 decodes various digital protocol signals including P25 (Phase 1), NXDN™, DMR™, D-STAR, IDAS, and Japanese Domestic DCR (Digital Convergence Radio).

- **0.1-3304.999 MHz Wideband Coverage**
- The IC-R30 covers a wide frequency range from 0.1 to 3304.999 MHz, and receives conventional analog signals such as AM, FM, WFM, USB, LSB, CW and CW as well as digital mode signals.

- **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, and other memory write scan and more.

- **Dualwatch screen**

- **Wireless Operation with an Optional Bluetooth® Headset**
- The optional VS-3 Bluetooth® headset offers wireless operation with an audio jack.

- **GPS**
- *At 50 mW output using external speaker.*

- **Decode Digital Protocols**
- **Wideband Coverage**
- 0.1–3304.999 MHz Coverage
- 0.1–1309.995 MHz Coverage

- **Other Features**
- 1300 Memory Channels with 22 Memory banks, Voice Squelch, Tri-watch, and other functions
- Auto memory scan, Tone scan, Programmed scan, Memory scan, priority scan, and other memory write scan and more.

- **Top Level Scan Speed**
- 200 Channels/Second
- The IC-R30 scans approximately 200 channels per second in the A band. You can quickly find and lock in to a desired signal. The IC-R30 has a variety of scan functions: VFO 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**
- RS-R30/RS-R30A
- The RS-R30 for iOS™ devices, and the RS-RD0A 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.

- **IC-R6**

- **Dualwatch and Dual Recording**
- The IC-R6 is energy-efficient, designed to provide many hours of listening enjoyment on a single charge. With the supplied rechargeable 2500 mAh cells (1400 mAh x2), the IC-R6 provides up to 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.**

- **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 2500 mAh cells (1400 mAh x2), the IC-R6 provides up to 15 hours of continuous receive capability.

- **At 50 mW output using external speaker.**

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**OPTIONS FOR BASE STATION TRANSCEIVERS AND RECEIVERS**

**HAND MICROPHONES**

- **SP-34**
- 4 audio filters

- **SP-33**
- 3 in cable: 6.5 ft cable

- **SP-38**
- For use with AH-4

- **SP-39AD**
- With 2 input lines

- **AD-55NS**
- 120°–240° V/A Output: 15 V/2 A

- **AH-2b**
- 7–54 MHz

- **AH-4**
- 3.5–54 MHz

**DESKTOP MICROPHONES**

- **CR-338**
- With DC power

- **MB-123**
- For use with AH-8000

- **MB-121**
- For use with AH-4

**EXTERNAL SPEAKERS**

- **SP-35**
- For use with AH-4

- **SP-41**
- 3.3 kHz/–6 dB

- **FL-53A**
- Covers 8.1–30 MHz

**CONTROL CABLES**

- **OPC-2321**
- For use with AH-740

- **OPC-420**
- 6 m cable; 19.6 ft

**FILTERS**

- **FA-135**
- Covers 8.1–30 MHz

- **FA-420**
- Frequency stability: ±0.5 ppm

**LINEAR AMPLIFIER**

- **IC-PW1**
- MB-23

**ANTENNAS**

- **OPC-599**
- For use with AH-2b

- **OPC-589**
- (Use with OPC-589)

**DESKTOP MICROPHONES**

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### Options for Base Station Transceivers and Receivers

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>OPTIONS FOR BASE STATION TRANSCEIVERS AND RECEIVERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-02</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>MB-118</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>MBF-1</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>MBA-1</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>OPC-2253</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>OPC-2254</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>OPC-2257</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>OPC-2257</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>OPC-2257</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
</tbody>
</table>

#### Programming Software
- **C1-9700**
- **C5-7100**
- **C5-86000**

A USB cable (Type A-B) is required for programming.

#### Remote Control Software
- **RC-28**
- **UC-122**

#### USB Remote Encoder / P25 Digital Unit
- **RS-M51**
- **RS-M53**
- **RS-86000**
- **RS-BA1(WIRE)**

### Options for Handheld Transceivers and Receivers

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>OPTIONS FOR HANDHELD TRANSCEIVERS AND RECEIVERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-R6</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>IC-R8</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>ICE-150</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
<tr>
<td>ID-51A</td>
<td>✔ ✔ ✔ ✔ ✔</td>
</tr>
</tbody>
</table>

#### Battery Cases
- **BP-373**
- **BP-362**
- **BP-295**
- **BP-264**
- **BP-262**
- **BP-271**
- **BP-272**
- **BP-287**
- **BP-298**

#### Battery Packs
- **BP-298**
- **BP-272**
- **BP-264**
- **BP-262**
- **BP-250**
- **BP-225**
- **BP-210**

### Desktop Chargers

#### Multi-Chargers

#### AC Adapters

#### Data Communication Cables
- **OPC-1529R**
- **OPC-2330UL**

### DC Power Cables

#### AC Adapters

#### Speaker-Microphones

#### Earphone-Microphones

#### Headsets
### OPTIONS FOR HANDHELD TRANSCEIVERS AND RECEIVERS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Headset Options</th>
<th>Earphone Options</th>
<th>PTT/Mic Adapter Cable Options</th>
<th>Plug Adapter Cable Options</th>
<th>Remote Control Software Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-R30</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>ID-510A</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>ID-510A</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>ID-510A</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>

#### OPTIONS FOR MOBILE TRANSCEIVERS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Hand Microphone Options</th>
<th>Bluetooth® Headset Options</th>
<th>Remote Control Software Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID-510A</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>ID-510A</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>ID-510A</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>

#### Additional Notes
- 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.
- 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.
- An optional free download software, RS-MS3W is required to be installed in a PC. An optional free download application, RS-MS3A is required to be installed in the Android™ device.

*For manual PTT operation, use with VS-4LA/OPC-2004LA.*

#### Headsets
- HS-95
- HS-95WP

#### Earphones
- SP-40
- SP-27

#### PTT/Mic Adapter Cable
- YS-4LA

#### Plug Adapter Cable
- OPC-2004LA
- OPC-2006LS
- OPC-2144
- VS-3

#### Remote Control Software
- OPC-1529R
- OPC-1529L

#### Carrying Cases
- LC-179
- LC-146A

#### Data Cable
- OPC-23300U
- OPC-474
- OPC-478
- OPC-478UC
- USB cable for an Android™

#### Programming Cables
- MB-124
- MB-133

#### Belt Clips
- MBA-2
- MBA-5
- MBA-8

#### Controller Brackets
- MF-8

#### Communication Cables
- OPC-1320W
- OPC-23300U
- OPC-478UC

#### Power Cables
- OPC-440A

#### USB Cables
- OPC-2350LU

#### Remote Control Software
- RS-MS3W

#### Optional Accessories
- Bluetooth® unit (UT-133A or UT-137)
- OPC-2350LU

#### Model Name
- ID-510A
- ID-510A
- ID-510A
- ID-510A

#### Options for Mobile Transceivers
- CS-2300H

#### Options for Handheld Transceivers and Receivers
- IC-R30
- IC-R30
- IC-R30

*1* Supplied with the ID-5100A, depending on the ID-5100A version.

*2* CS-5100, CS-4100 and CS-2730 are available for free download from Icom website:

*3* Free download software for Windows® PC. Download from the Icom website:

*4* Free download software for Android™ device. Download from Google Play™.

*5* Free download software for iOS™ app. Download from the App Store.

*6* Free download software for Windows® device. Download from the Icom website:

*7* Free download iOS™ app. Download from the App Store.

#### Remote Control Software
- OPC-1529R (for Android™ device) / OPC-1529L (for Windows® device)

#### Notes on Accessories
- 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-MSA 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 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.
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### SPECIFICATIONS FOR BASE STATION TRANSCEIVERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency coverage</th>
<th>Output power</th>
<th>Spurious and image rejection</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-7851</td>
<td>1.8–29.999 MHz</td>
<td>10 dB S/N (Differs according to version)</td>
<td>More than 70 dB (15 kHz), 800 Hz/–40 dB</td>
</tr>
<tr>
<td>IC-7610</td>
<td>1.8–29.999 MHz</td>
<td>10 dB S/N (Differs according to version)</td>
<td>More than 70 dB (15 kHz), 800 Hz/–40 dB</td>
</tr>
<tr>
<td>IC-7700</td>
<td>1.8–29.999 MHz</td>
<td>10 dB S/N (Differs according to version)</td>
<td>More than 70 dB (15 kHz), 800 Hz/–40 dB</td>
</tr>
<tr>
<td>IC-7300</td>
<td>1.8–29.999 MHz</td>
<td>10 dB S/N (Differs according to version)</td>
<td>More than 70 dB (15 kHz), 800 Hz/–40 dB</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS FOR HANDHELD AND MOBILE TRANSCEIVERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency coverage</th>
<th>Audio output power</th>
<th>Spurious and image rejection</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-51A</td>
<td>144–146 MHz</td>
<td>More than 100 mW (Hi, Mid-Hi, Mid-Lo, Low)</td>
<td>More than 70 dB (2.4 kHz), 3.6 kHz/–60 dB</td>
</tr>
<tr>
<td>IC-510A</td>
<td>144–146 MHz</td>
<td>More than 100 mW (Hi, Mid-Hi, Mid-Lo, Low)</td>
<td>More than 70 dB (2.4 kHz), 3.6 kHz/–60 dB</td>
</tr>
<tr>
<td>IC-410A</td>
<td>144–146 MHz</td>
<td>More than 100 mW (Hi, Mid-Hi, Mid-Lo, Low)</td>
<td>More than 70 dB (2.4 kHz), 3.6 kHz/–60 dB</td>
</tr>
<tr>
<td>IC-2730A</td>
<td>144–146 MHz</td>
<td>More than 100 mW (Hi, Mid-Hi, Mid-Lo, Low)</td>
<td>More than 70 dB (2.4 kHz), 3.6 kHz/–60 dB</td>
</tr>
<tr>
<td>IC-2300H</td>
<td>144–146 MHz</td>
<td>More than 100 mW (Hi, Mid-Hi, Mid-Lo, Low)</td>
<td>More than 70 dB (2.4 kHz), 3.6 kHz/–60 dB</td>
</tr>
</tbody>
</table>

* Depending on version. * Some frequency ranges are not guaranteed. All stated specifications are subject to change without notice or obligation.
### SPECIFICATIONS FOR RECEIVERS

#### IC-R9500

<table>
<thead>
<tr>
<th>Frequency coverage (other accounting as version)</th>
<th>USA version: Rx 0.005–821.999 MHz, 851–866.999 MHz, 896–3335 MHz</th>
<th>Exp version: Rx 0.005–3335 MHz</th>
<th>A band: Rx 0.1–821.999 MHz, 851–866.999 MHz, 896–3304.999 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode</td>
<td>USB, LSB, CW, FSK, AM, FM, WFM, P25**</td>
<td>**USB, LSB, CW, FSK, AM, FM, WFM, D-STAR (DV), P25, NXDN, dPMR, DCR, SCR</td>
<td>A band: (≤1300 MHz) FM, FM-N, FM-N AM, AM, AM N, SSB, CW, D-STAR (DV), P25, dPMR, NXDN, DCR</td>
</tr>
<tr>
<td>Frequency stability</td>
<td>±0.05 ppm (25°C after 5 min, warm-up)</td>
<td>Less than ±0.5 ppm (at 25°C after warm-up)</td>
<td>Less than ±2.5 ppm (at 0°C to 60°C)</td>
</tr>
<tr>
<td>Maximum current drain</td>
<td>100 VA (Power consumption)</td>
<td>2.0 A</td>
<td>330 mA typical at 3.6 V DC**</td>
</tr>
<tr>
<td>Antenna connector</td>
<td>SO-239 (50 Ω for HF), Phono (RCA: 500 Ω for HF), Type-N × 2**</td>
<td>SMA (50 Ω), SMA (50 Ω), SMA (50 Ω)</td>
<td>SMA (50 Ω)</td>
</tr>
<tr>
<td>Dimensions (Reproducible are not included)</td>
<td>220 (W) × 90 (H) × 230 (D) mm; 2.3 (W) × 5.6 (H) × 12 (D) in</td>
<td>58 (W) × 143 (H) × 30.5 (D) mm; 2.3 (W) × 5.6 (H) × 12 (D) in</td>
<td>58 (W) × 86 (H) × 24.8 (D) mm; 2.3 (W) × 3.4 (H) × 1.2 (D) in</td>
</tr>
<tr>
<td>Weight (approx.)</td>
<td>20 kg, 44.1 lb</td>
<td>4.3 kg, 9.5 lb</td>
<td>310 g, 10.9 oz with antenna and 5P-287 battery pack</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>SSB/CW: 0.8–1.9 MHz 0.5 μV</td>
<td>Less than 0.2 μV</td>
<td>Less than 0.2 μV</td>
</tr>
<tr>
<td></td>
<td>AM: 1.0–17.99 MHz 6.3 μV</td>
<td>Less than 1.8 μV</td>
<td>Less than 1.8 μV</td>
</tr>
<tr>
<td></td>
<td>FM (BW=15 kHz): More than 12 kHz/−60 dB</td>
<td>Less than 12 kHz/−60 dB</td>
<td>Less than 12 kHz/−60 dB</td>
</tr>
<tr>
<td></td>
<td>AM (BW=6 kHz): More than 6 kHz/−3 dB</td>
<td>Less than 2.4 kHz/−3 dB</td>
<td>Less than 2.4 kHz/−3 dB</td>
</tr>
<tr>
<td></td>
<td>FM (BW=30 kHz): More than 3 kHz/−60 dB</td>
<td>Less than 3 kHz/−60 dB</td>
<td>Less than 3 kHz/−60 dB</td>
</tr>
<tr>
<td></td>
<td>FM (BW=60 kHz): More than 1.5 kHz/−60 dB</td>
<td>Less than 1.5 kHz/−60 dB</td>
<td>Less than 1.5 kHz/−60 dB</td>
</tr>
<tr>
<td></td>
<td>AM (BW=2.4 kHz): More than 1 kHz/−60 dB</td>
<td>Less than 1 kHz/−60 dB</td>
<td>Less than 1 kHz/−60 dB</td>
</tr>
<tr>
<td></td>
<td>FM (BW=120 kHz): More than 0.3 kHz/−60 dB</td>
<td>Less than 0.3 kHz/−60 dB</td>
<td>Less than 0.3 kHz/−60 dB</td>
</tr>
<tr>
<td></td>
<td>FM (BW=480 kHz): More than 0.05 kHz/−60 dB</td>
<td>Less than 0.05 kHz/−60 dB</td>
<td>Less than 0.05 kHz/−60 dB</td>
</tr>
<tr>
<td></td>
<td>FM (BW=1800 kHz): More than 0.01 kHz/−60 dB</td>
<td>Less than 0.01 kHz/−60 dB</td>
<td>Less than 0.01 kHz/−60 dB</td>
</tr>
<tr>
<td>Selectivity</td>
<td>SSB/CW: More than 2.4 kHz/−3 dB</td>
<td>Less than 3.6 kHz/−60 dB</td>
<td>Less than 3.6 kHz/−60 dB</td>
</tr>
<tr>
<td></td>
<td>CW (500 Hz): More than 0.6 kHz/−3 dB</td>
<td>Less than 700 kHz/−60 dB</td>
<td>Less than 700 kHz/−60 dB</td>
</tr>
<tr>
<td></td>
<td>AM (6 kHz): More than 6.0 kHz/−3 dB</td>
<td>Less than 15 kHz/−60 dB</td>
<td>Less than 15 kHz/−60 dB</td>
</tr>
<tr>
<td></td>
<td>FM (15 kHz): More than 12 kHz/−60 dB</td>
<td>Less than 25 kHz/−60 dB</td>
<td>Less than 25 kHz/−60 dB</td>
</tr>
<tr>
<td></td>
<td>WFM: More than 180 kHz/−60 dB</td>
<td>Less than 180 kHz/−60 dB</td>
<td>Less than 180 kHz/−60 dB</td>
</tr>
<tr>
<td>Audio output power</td>
<td>2.6 W (0 Ω load)</td>
<td>More than 2.0 W (0 Ω load)</td>
<td>More than 1700 μW (Internal SP, 16 Ω load)</td>
</tr>
<tr>
<td></td>
<td>More than 200 mW (External SP, 8 Ω load)</td>
<td>More than 200 mW (External SP, 8 Ω load)</td>
<td>More than 200 mW (External SP, 8 Ω load)</td>
</tr>
</tbody>
</table>

**Depending on the receiver version. Guaranteed range: 0.1–3000 MHz. **FM mode single receive, voice recording OFF, GPS OFF, back light OFF. **External SP, backlight OFF.

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

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