

Icom's flagship HF transceiver

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

Three hi-spec 1st IF filters (roofing filters)

Two completely independent receiver circuits

Four 32-bit DSP units and 24-bit AD/DA converters

Digital IF filter

200W output power and high-stability transmitter

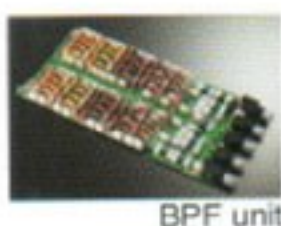
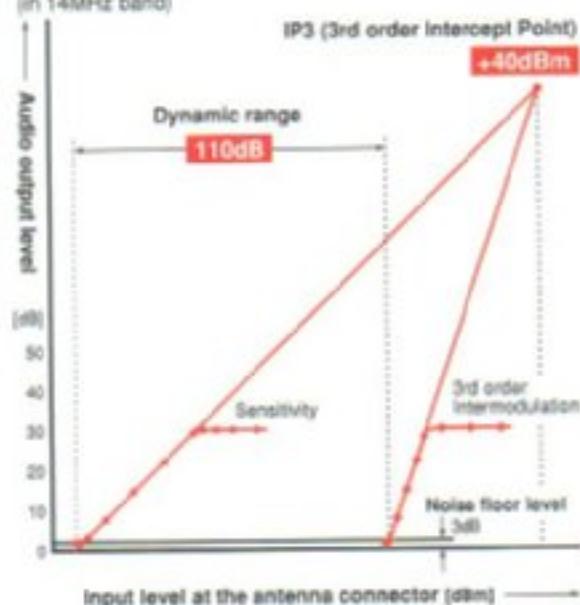


## HF/50MHz TRANSCEIVER IC-7800

### +40dBm IP3 (3rd order Intercept Point)

Icom's considerable analog RF circuit experience combined with cutting-edge digital technology results in an astonishing 110dB receiver dynamic range and a +40dBm IP3 in the HF bands – the first in ham radio! To achieve this superior receiver performance, Icom's engineering team completely re-engineered all of the analog circuitry to match the DSP system.

#### Dynamic range characteristics (in 14MHz band)



BPF unit



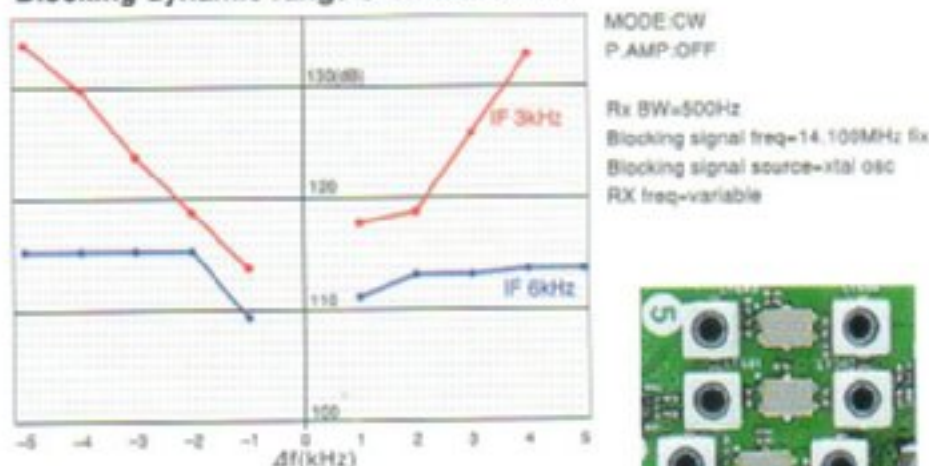
DIGI-SEL unit

### Three hi-spec 1st IF filters (Roofing Filter)\*1

In addition to selectable 6kHz and 15kHz roofing filters, the IC-7800 has a 3kHz roofing filter before the 1st IF amplifier. It provides 134dB\*2 (approx.) of blocking dynamic range and allows you to pull out a weak signal while blocking strong adjacent signals. (The FM mode filter is fixed at 15kHz.)

\*1 Icom calls the roofing filters "hi-spec 1st IF filters", because their performance is much better than regular IF filters. \*2 At 14.1MHz receive, with 5kHz separation of interference signal.

#### Blocking dynamic range characteristics



Hi-spec 1st IF filters (Roofing filters)

### Two completely independent receiver circuits

Dual receivers allow you to receive on two different bands simultaneously in different modes, without the receivers affecting each other.

### Quad processing

The IC-7800 incorporates four independent, 32-bit DSP units and 24-bit AD/DA converters. By having four independent DSP units, the radio responds to operator changes in an instant, as each DSP unit is dedicated to a single function. While each receiver has its own dedicated DSP unit, there is a DSP unit for transmit as well as a DSP unit for the spectrum scope.

### Digital IF filter

Icom's digital IF filters give you performance that is not possible with crystal or mechanical filters. They allow the operator to adjust filter shape (sharp or soft), filter bandwidth, and center frequency characteristics, without missing the action. Multiple filter memories store the most-recently used filter settings for each operating mode.



Filter preset screen

### Ultra high stability OCXO unit

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



## 200W output power, built-in

The power amplifier uses push-pull power MOS-FETs with a 48V DC supply. They provide a powerful 200W of output at 100 percent duty cycle. An effective cooling system maintains internal temperatures within a safe range and prevents thermal runaway.



PA Unit and heat sink

## Real-time spectrum scope

With its own dedicated DSP unit, the IC-7800's spectrum scope provides excellent sensitivity and 80dB of dynamic range. This scope rivals many of today's commercial test instruments. The display spans  $\pm 2.5\text{kHz}$  to  $\pm 250\text{kHz}$  in 7 steps, covering up to 500kHz of spectrum!



Example of spectrum scope centered on the receiving frequency.



Example of fixed spectrum scope range.

## 7-inch wide color TFT LCD

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

## Other outstanding features

**[Antenna and receiver]**

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

**[CW mode]**

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

**[Operation]**

- High-quality digital voice memory
- Triple band stacking register
- Built-in RTTY and PSK31 modulator and demodulator
- Message memory for CW, RTTY and PSK31 operations
- Twin peak audio filter for RTTY operation
- CF memory card for storing customized personal settings
- 101 memory channels
- AGC control for fine tuning of the AGC time constant
- Microphone equalizer and adjustable transmit bandwidth
- FFT scope averaging function for PSK and RTTY decode
- Screen saver function



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

**2nd order intercept point higher than +110dBm**

**Excellent inband IMD specifications**

**Three hi-spec 1st IF filters (roofing filters)**

**7-inch wide color TFT LCD**

**32-bit DSP units and 24-bit AD/DA converters**

**200W output power and high-stability transmitter**

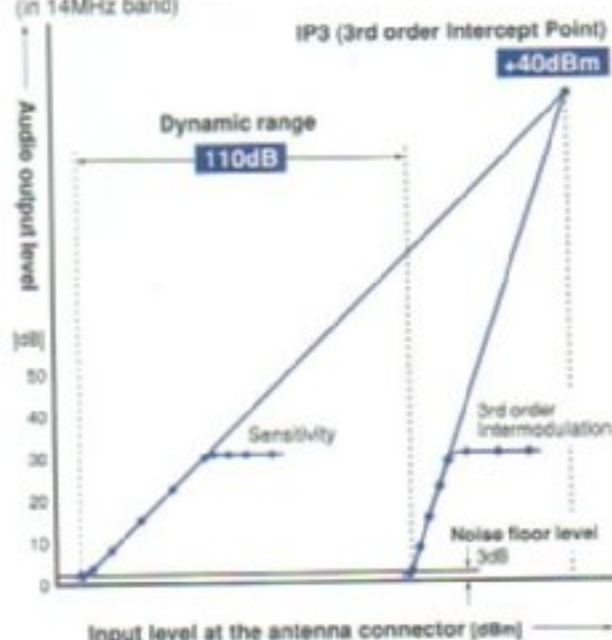


## HF/50MHz TRANSCEIVER IC-7700

### +40dBm IP3 (3rd order Intercept Point) and 110dB dynamic range

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

Dynamic range characteristics (in 14MHz band)



DIGI-SEL unit

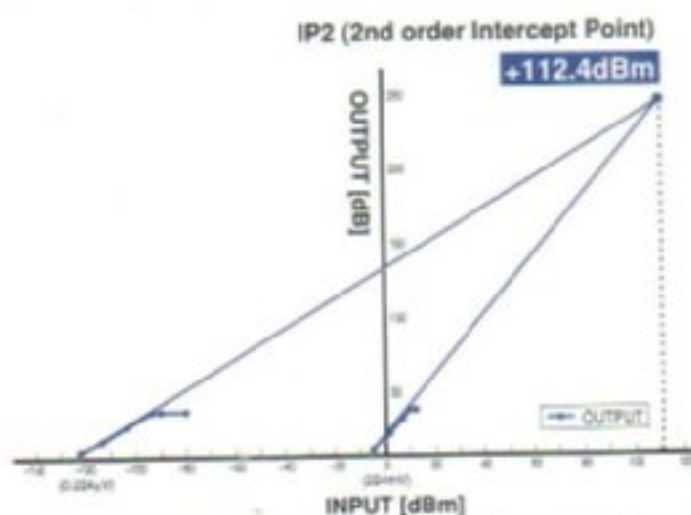


BPF unit

### More than +110dBm IP2 (2nd order intercept point)

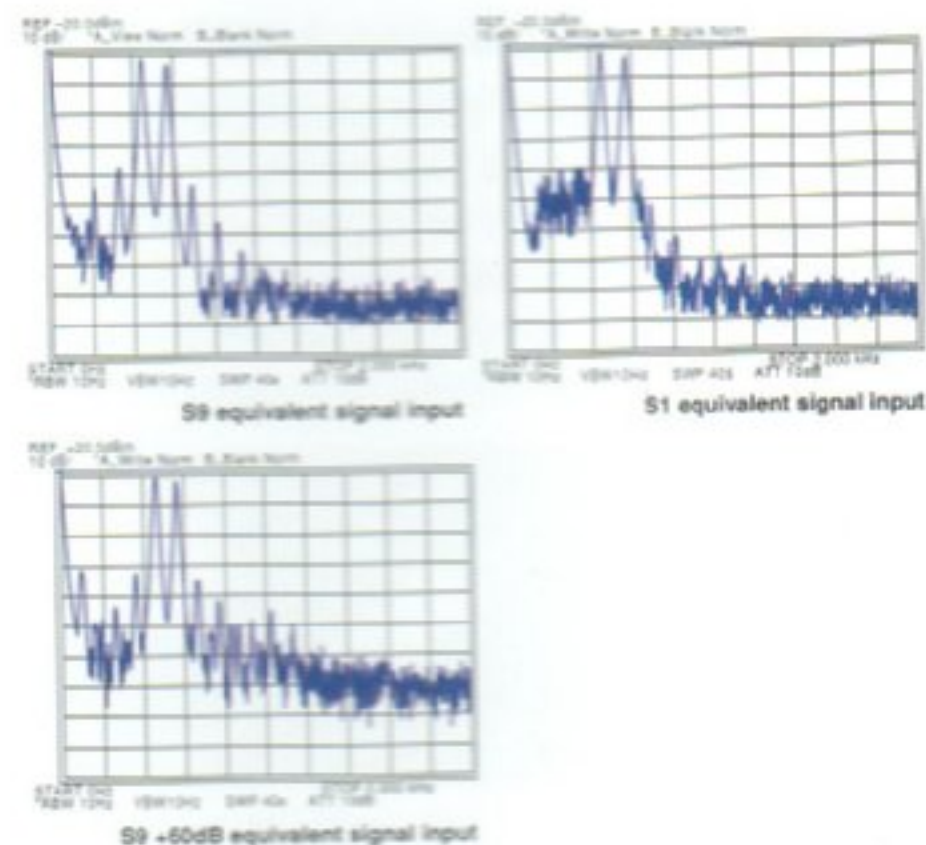
An IP2 point of more than +110 dBm\* means 2nd order distortion from strong broadcast stations will be completely eliminated. The continuous pursuit of leading analog circuit engineering makes it possible to achieve this leading edge level of performance.

\* The IP2 figure is a typical value.  
\*\* Measurements were made using custom equipment, due to the limits of normal signal generators (SG) and duplexers to +85 dBm.



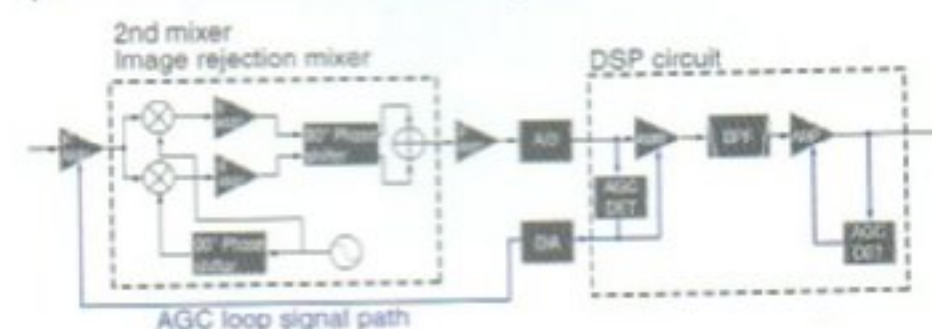
### High specification in-band IMD

In-band IMD (Intermodulation Distortion) creates undesired spurious signals as a consequence of non-linear processing of multiple signals. All (2nd, 3rd or even higher) orders of IMD performance are superior in the IC-7700. The improvement will be especially evident in CW mode. You'll notice the difference as you copy weak signals without internal distortion or noise.



### Two AGC Loops

The IC-7700 has two AGC loops. The AGC voltages are derived both before and after the digital IF filter in the DSP unit. The first AGC loop prevents the saturation of the 1st IF amplifier from strong signals outside the pass-band filter. The second AGC loop detects the AGC voltage at the digital IF filter output which contains only the desired signal, obtaining full performance from the digital IF filter.

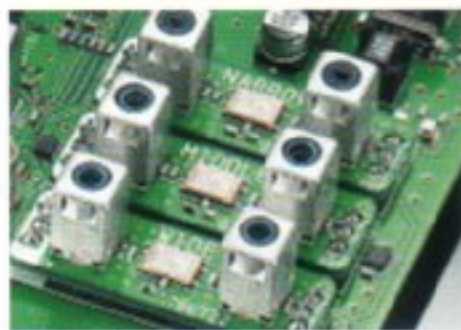




### Three hi-spec 1st IF filters (Roofing filter)

Now a proven formula, the IC-7700 employs custom three hi-spec 1st IF filters (roofing filters) to achieve approximately 134dB\*1 of blocking dynamic range.

\*1 At 14.1MHz receive, with 5kHz separation of interference signal.



Hi-spec 1st IF filters (Roofing filters)

### 7-inch wide color TFT LCD

An active matrix 7-inch (800x400 pixel) TFT color display shows main and sub-band frequencies, settings, and operating parameters, as well as the spectrum scope, S-meter, and RTTY/PSK31 decoded messages in vivid color. The "virtual" S-meter needle swings smoothly and accurately, like an analog meter.

### Real-time spectrum scope

With its own dedicated DSP unit, the IC-7700's spectrum scope provides excellent sensitivity and 80dB of dynamic range. The display spans  $\pm 2.5\text{kHz}$  to  $\pm 250\text{kHz}$  in 7 steps, covering up to 500kHz of spectrum!

### USB connectors on the front panel

Two USB connectors on the front panel allows you to easily connect a USB keyboard or USB flash drive to save transceiver settings, update firmware, or transfer settings to another IC-7700.



Two USB connectors

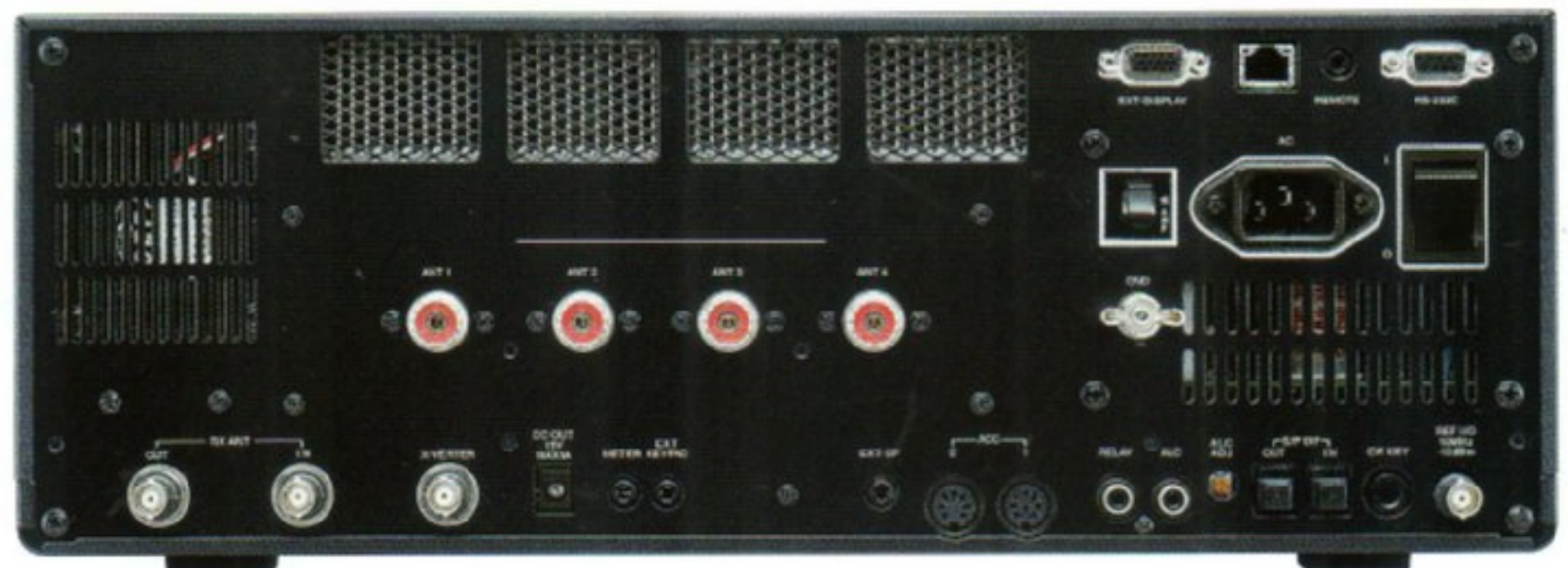
### Other outstanding features

**[Antenna and receiver]** • 4 antenna connectors with automatic antenna selector • BNC type RX IN/OUT connectors • Automatic antenna tuner • Preamp for 50MHz band • 3-step manual notch filter • Digital twin PBT

eliminates interference from adjacent signals  
• 16-step noise reduction

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

**[Operation]** • Built-in power supply • High quality digital voice memory • Message memory for CW, RTTY and PSK31 • Built-in RTTY and PSK31 modulator and demodulator • Twin peak audio filter for RTTY operation • Triple band stacking register • 101 memory channels • AGC control for fine tuning of the AGC time constant • Microphone equalizer and adjustable transmit bandwidth • FFT scope averaging function for PSK and RTTY decode • Screen saver function





## HF/50MHz TRANSCEIVER **IC-7600**

**+30dBm IP3**

**Improved inband IMD**

**5.8 inch ultra-wide viewing angle TFT display**

### Dual DSP for transmitter/receiver and spectrum scope

Two separate 32-bit DSP units power the transmitter/receiver and spectrum scope. These processors give the IC-7600 high performance comparable to our top-of-the-line IC-7800 and IC-7700, thanks to the combination of dual DSP and our analog RF design expertise.

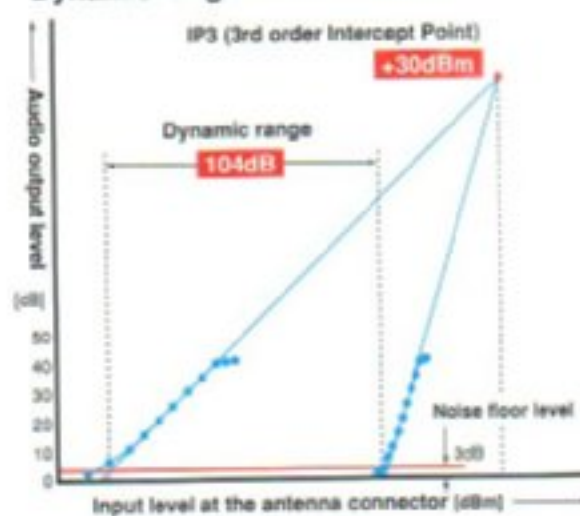


Dual DSP

### 104dB dynamic range and +30dBm IP3 (3rd order Intercept Point)

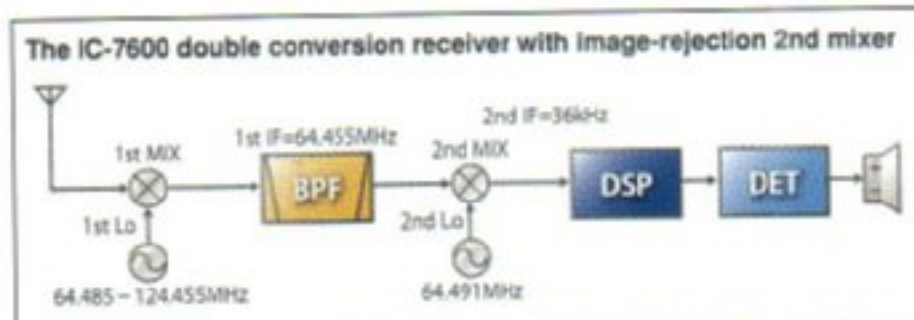
An astonishing 104dB receiver dynamic range and +30dBm IP3 in the HF bands without sacrificing receiver sensitivity is a standard specification by fitting the IC-7600. Even a weak signal adjacent to strong signals is clearly received by the IC-7600.

Dynamic range characteristics



### Double conversion superheterodyne improves inband IMD

The IC-7600 employs a double conversion superheterodyne system which has an image rejection mixer for the 2nd mixer stage. When compared to a typical triple conversion system, the double conversion system is more difficult to implement but it dramatically reduces signal distortion and provides a high-linearity RF signal to the DSP processor.



### Dual AGC loops controlled by DSP

The IC-7600 has dual AGC loops, one analog and one digital, both under DSP control. This architecture prevents strong adjacent signals from "pumping" the AGC and allows maximum dynamic range in the DSP.

### Three built-in 1st IF (roofing) filters, including 3kHz

The IC-7600 has three built-in 1st IF (roofing) filters ahead of the 1st IF amplifier stage. The 3kHz filter is especially effective in CW and SSB modes, eliminating overloading caused by strong signals just outside the passband.

### 5.8 inch ultra-wide viewing angle TFT display

The IC-7600's ultra-wide viewing angle display has excellent color rendering and high contrast ratio with fast response time. These features allow the spectrum scope and simulated analog meters to move smoothly and naturally. White LED backlighting offers fast start-up, stable brightness and long life.



Ultra-wide viewing angle display

### Spectrum scope

The dedicated spectrum scope DSP with built-in digital filtering greatly improves dynamic range, response time, and frequency accuracy of the spectrum scope. The scope automatically selects the optimum resolution based on the sweep bandwidth. In addition, the spectrum scope range can be set independently from the receiving frequency. You can monitor band conditions between the selected sweep edges (Max. 500kHz) in the fixed mode, as well as sweep a selected band width centered on the receiving frequency in center mode.

## USB connectors on the front and rear panel

The IC-7600 has a type A USB receptacle on the front panel and a type B receptacle on the rear panel. Connect a USB keyboard or flash drive on the front panel and a PC on the rear panel.

## RTTY/PSK31 operation with a USB keyboard

Simply plug in a USB keyboard to operate RTTY and PSK. The digital twin peak filter greatly reduces interference and a tuning indicator helps you zero beat the signals. Eight RTTY and PSK transmit memories store up to 62 characters per channel.



## Other features

**[Antenna and receiver]** • 2 TX/RX antenna connectors and RX antenna connector • Automatic antenna tuner • Auto notch filter and manual notch filter • Digital twin PBT • 16-step noise reduction • Dual watch

**[Transmitter]** • Tx monitor function • Tone encoder • VOX operation • All mode power control

**[CW mode]** • CW Waveform controlled by the DSP • Multi-function electronic keyer with adjustable keying speed, dot-dash ratio and paddle polarity • APF selection (soft/sharp) • Double key jack system

**[Operation]** • Dual AGC loops controlled by DSP • 2 clocks show local and UTC time • High quality digital voice memory • Triple band stacking register • Message memory for CW, RTTY and PSK31 operations • 101 memory channels • Microphone equalizer and adjustable transmit bandwidth • FFT scope averaging function for PSK and RTTY decode • Programmable band edge beep • Screen saver function



## HF/50MHz TRANSCEIVER IC-7200

IF DSP

Rugged design for outdoor use

100W output power

### IF DSP

The latest IF DSP technology is employed in the IC-7200. While the IC-7200 is an entry-class transceiver, advanced digital features such as flexible filter width and shape setting, digital noise reduction and auto notch filter are comparable to higher class models.

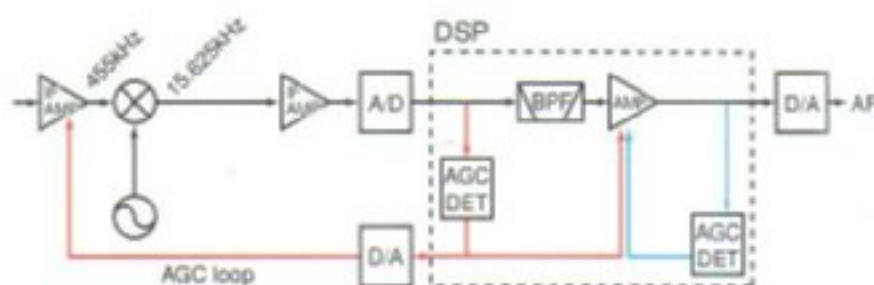
### Rugged design for outdoor use

The rugged design of the IC-7200 means your enjoyment of this rig is not limited only to your shack. Waterproof protection technologies used in Icom's marine radios are applied to the buttons and knobs on the front panel to provide a basic measure of protection against water intrusion\*.

\* IC-7200 is NOT waterproof.

### AGC loop management

Distortion and blocking from strong nearby signals are prevented by placing DSP functions inside the AGC loop. The AGC time constants are selectable from fast, slow and off for each operating mode.



### High stability transmitter

The DDS (Direct digital synthesizer) creates a clear, clean transmit signal and improves the carrier-to-noise ratio. With a dual-fan cooling system, the IC-7200 provides stable high quality output even during high duty cycle operation.

### USB connector for PC control

The IC-7200 can be controlled via the USB by a PC using the data format of the Icom CI-V interface. In addition, modulator and received audio can also be transferred over the USB interface. By using appropriate external software, you can record incoming audio and/or transmit preprogrammed messages from your PC.

### Digital Twin PBT

Only Icom brings you Twin Passband tuning! Tailor your IF passband with the Twin PBT by electronically shifting the upper and lower edges of the IF filter. By using the concentric front-panel knobs, you can either narrow the IF passband, or shift the entire passband to eliminate interfering signals.

### Manual notch filter

The manual notch filter delivers more than 70dB of attenuation. Strong interfering tones will be eliminated without adversely affecting the AGC loop performance. On the bottom right of the front panel, a dedicated control knob adjusts the notch filter frequency.

### Other features

- RIT • VOX •  $\pm 0.5$ ppm frequency stability
- LCD backlight (Hi/Lo/Off) • CI-V interface
- 201 memory channels • Built-in 20dB attenuator • Pre-amplifier • Dial lock • Auto tuning step function • 1Hz step tuning • Band stacking register • Built-in voice synthesizer
- Quick split • Front facing speaker





## HF/50MHz/144MHz TRANSCEIVER IC-746PRO

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

51 types of passband width,  
soft and sharp filter shapes

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

### 32-bit DSP technology

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

### IF filter shapes

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

### RTTY demodulator and decoder

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



RTTY decode screen

### Other features

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



## HF TRANSCEIVER IC-718



Simple, straightforward  
operation with keypad

General coverage receive with  
superior performance

Optional DSP capability

### Simple operation

The IC-718 is equipped with a minimum number of buttons and controls for simple feature selection. The 10-key pad on the front panel allows direct entry of an operating frequency or a memory channel number. The auto tuning step function is activated when turning the dial quickly and helps speed up tuning. The band stacking register is convenient when changing operating bands.

### Front mounted loud speaker

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

### Optional DSP capability, UT-106

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



Optional UT-106

### General coverage receiver

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

\*Guaranteed range: 0.5–29.999999 MHz

### Other features

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

Rugged  
MIL-STD 810



Optional LC-156

## HF/50MHz TRANSCEIVER IC-703

QRP

Built-in automatic antenna tuner  
for portable operation

Optional multi-bag,  
battery pack for field use

Built-in DSP Capabilities  
(Optional depending on version)

### Maximum portable convenience

The IC-703 is designed for outdoor, portable operation. At 9.6V<sup>\*1</sup>, this QRP rig provides 0.1–5W variable output (0.1–2W in AM) and 7 hours<sup>\*2</sup> operating time. All the necessary equipment including an antenna, can be packed in the optional multi-bag LC-156.

<sup>\*1</sup> With optional battery pack BP-228 <sup>\*2</sup> Tx:Rx:Stand-by=0.5:0.5:9 in SSB mode with optional BP-228

### Built-in automatic antenna tuner

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



Built-in antenna tuner

### DSP capabilities

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

<sup>\*</sup> UT-106 DSP unit required for some versions.

### Other features

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

Rugged  
MIL-STD 810



## HF/VHF/UHF TRANSCEIVER IC-7000

IF DSP — First in its class

2-point Manual Notch Filter  
more than 70dB attenuation

2.5-inch color TFT display

### IF DSP — First in its class

Digital IF filter, manual notch filter, digital twin PBT, AGC loop management, digital noise reduction and more. The latest digital features are incorporated in this compact radio by two DSP chips that deliver superior processing performance. Of course, those digital features work on all ham bands — HF, 50, 144MHz to the 430/440MHz band.

### 2-point MNF (Manual notch filter)

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

### 2.5-inch color TFT display

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

<sup>\*</sup> 3.5(d) mm monaural cable is required.

### Other outstanding features

- 35W output on 430/440MHz band
- ±0.5 ppm high stability crystal unit
- 8 direct access buttons for user-friendly operation
- Digital voice recorder for transmit and receive
- Built-in RTTY demodulator
- Remote control microphone, HM-151
- Fixed-mode and center-mode band scope
- Multi-function meter and SWR graphic displays
- Front panel separation with optional separation cable
- Built-in voice synthesizer





VHF/UHF FM TRANSCEIVER

## IC-208H

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

**Wideband receiver (Depending on version)**

**Compact, detachable front panel with separation cable**

### Wideband receiver

The IC-208H receiver covers 118–173, 230–549 and 810–999 MHz\* as standard. Listen to amateur bands, as well as aviation, marine, weather and other utility communications in a compact mobile package.

\* Receiver range differs depending on version.

### Detachable front panel

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

\* 111(W)×40(H)×26.3(D) mm; 4<sup>3</sup>/<sub>8</sub>×1<sup>9</sup>/<sub>16</sub>×1<sup>1</sup>/<sub>32</sub> in.

### Other features

- 55W/50W (VHF/UHF) output power
- 512 memory channels with 10 memory banks
- 16 DTMF memory channels
- 50 CTCSS, 104×2 DTCS encoder/decoder
- Pocket beep and tone scan
- Squelch attenuator
- Weather channel with weather alert\*
- 9600bps packet data terminal
- Easy to manage bank link scan system
- Microphone sensitivity setting
- Amber, green and yellow, triple color LCD

\* U.S.A. version only.



144MHz FM TRANSCEIVER

## IC-V8000

**Unbeatable 75W output power with efficient cooling fan**

**Total 200 memory channels with 10 memory banks**

**Remote control microphone, HM-133V**

### 75W of output power

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

### Dynamic Memory Scan (DMS)

With 200 alphanumeric memory channels, Icom's exclusive DMS system gives you flexibility over your scanning lists never offered before in a 2m mobile, fully customizable into 10 memory banks.

### Other features

- Front mounted speaker
- 10 DTMF memory channels
- DTMF pager/code squelch function with optional UT-108
- 50 CTCSS and 104×2 DTCS encoder/decoder
- Pocket beep and tone scan
- Squelch attenuator
- Weather channel with weather alert\*
- Narrow band FM mode\*
- Cooling fan control
- Squelch delay
- Amber and green, dual color LCD

\* U.S.A. version only.



**DIGITAL**  
With optional UT-118



144MHz FM TRANSCEIVER

## IC-2200H

**Stable 65W output power**

**Optional digital unit, UT-118**

**User-friendly interface and durable construction**

### 65W\* of output power

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

\* Depending on version.

### Optional digital unit, UT-118

The optional UT-118 provides D-STAR DV mode operation compatible with other D-STAR radios.

### And more...

- 207 memory channels with 10 memory banks
- 16 DTMF memory channels
- DTMF pager/code squelch function with optional UT-108
- 50 CTCSS and 104×2 DTCS encoder/decoder
- Pocket beep and tone scan
- Squelch attenuator
- Weather channel with weather alert function\*
- FM narrow mode
- Data jack for connecting with PC or GPS
- ALC (Automatic Level Control)
- Squelch delay
- Easy to manage bank link scan system
- Amber and green, dual color LCD

\* U.S.A. version only.



Rugged  
MIL-STD 810

6W\*<sup>1</sup> powerful output for both  
144 and 430(440) MHz bands

MIL-standard durable  
construction

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

### Other Features

- 70 memory channels • Up to 8 hours\*<sup>2</sup> of operating time with BP-172 battery pack • 9 DTMF memories • 50 CTCSS encoder/decoder • Pocket beep and tone scan • Automatic repeater function\*<sup>3</sup> • Backlit LCD • Mic simple mode with optional HM-75A • Thumb-touch lock switch • Large, easy-to-push PTT switch • Auto power off • Auto power save

\*<sup>1</sup> Typical; with 13.5V DC. \*<sup>2</sup> VHF band at 2W output power. Typical operation with Tx:Rx:Stand-by=1:1:8

\*<sup>3</sup> USA version only

### VHF/UHF FM TRANSCEIVER

## IC-T7H

158 -



Rugged  
MIL-STD 810

110mm height - compact body  
with IPX4 water resistance

7W high output power

External DC power jack

### Other features

- 107 memory channels with 10 memory banks • Up to 7 hours\*<sup>1</sup> of operating time with BP-227 battery pack • 16 DTMF memories • DTMF pager/code squelch function with optional UT-108 • 50 CTCSS and 104x2 DTCS encoder/decoder • Pocket beep and tone scan • Automatic repeater function\*<sup>2</sup> • Weather channel receive with weather alert\*<sup>2</sup> • Reversible control knob and up/down buttons assignment • Backlit LCD • Mic simple mode with optional HM-75A

\*<sup>1</sup> Typical operation with Tx:Rx:Stand-by=1:1:8

\*<sup>2</sup> USA version only

### 144MHz FM TRANSCEIVER

## IC-V85

DIGITAL  
With optional UT-118

Rugged  
MIL-STD 810

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

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

200 alphanumeric memories  
with 10 memory banks

### Other features

- Up to 7 hours\*<sup>1</sup> of operating time with optional BP-210N battery pack • 16 DTMF memories • DTMF pager/code squelch function with optional UT-108 • 50 CTCSS and 104x2 DTCS encoder/decoder • Pocket beep and tone scan • Automatic repeater function\*<sup>2</sup> • Weather channel receive with weather alert\*<sup>3</sup> • Reversible control knob and up/down buttons assignment • Backlit LCD • Mic simple mode with optional HM-75A

\*<sup>1</sup> IC-U82 Typical operation with Tx:Rx:Stand-by=1:1:8 Up to 6 hours for IC-V82. \*<sup>2</sup> USA/CSA versions only

\*<sup>3</sup> IC-V82 USA/CSA versions only

IC-V82

### VHF AND UHF TRANSCEIVERS

## IC-V82 • IC-U82

144MHz

430(440)MHz

Rugged  
MIL-STD 810

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

Military-grade tough construction

Reversible up/down buttons  
and rotary selector

### Other features

- Up to 11 hours\*<sup>1</sup> of operating time with optional BP-210N battery pack • 5 DTMF memories • DTMF pager/code squelch function with optional UT-108 • 50 CTCSS and 104x2 DTCS encoder/decoder • Pocket beep and tone scan • Automatic repeater function\*<sup>2</sup> • Reversible control knob and up/down buttons assignment • Backlit LCD • Mic simple mode with optional HM-75A • Fast scanning speed 40 channel per second (Program scan mode). \*<sup>1</sup> Typical operation with Tx:Rx:Stand-by=1:1:8 \*<sup>2</sup> USA version only



### 144MHz FM TRANSCEIVER

## IC-V8