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ICOM

RADIO PRODUCTS -
TRANSCEIVER

IC-7800 HF/50MHz Transceiver

From 40 Years of RF Design Expertise Comes the Masterpiece Ham Radio Transceiver



Icom is a pioneer in the amateur radio world. Starting with the first analog PLL circuit in the IC-200 to the ground-breaking 32-bit DSP technology used in the IC-756PRO, Icom's developed some of the most innovative radio equipment ever made.

Continuing with this tradition, Icom announces the groundbreaking IC-7800!

The IC-7800's somewhat familiar looks will remind many HF operators of the IC-781. The IC-781 set benchmarks back in the 1980's as that generation's ultimate HF transceiver. Some of today's operators still feel the IC-781 is the pinnacle in amateur radio design. They have not seen the IC-7800. It takes amateur radio to a whole new level of performance. The IC-7800 will be viewed as the pinnacle radio for years to come.

The IC-7800 is an artistic fusion of over 40 years analog RF circuit development expertise and cutting-edge digital technology. The result is TWO identical receivers with 110dB dynamic range, +40dBm 3rd order intercept point, and unmatched DSP technology in the HF bands something that has never been achieved in Ham radio! Simply put, Icom has developed the ultimate Amateur HF transceiver. No one else comes close!

+40dBm IP3

(3rd order Intercept Point) Icom's considerable analog RF circuit experience combined with cutting-edge digital technology results in an astonishing 110dB receiver dynamic range and a +40dBm IP3 in the HF bands. A first in Ham radio! To achieve this superior receiver performance, Icom's engineering team completely re-engineered the whole analog circuit and matched it to the DSP units. This allowed us to explore new technical dimensions.

Complete CW features

All of the following CW capabilities are included in the IC-7800:

DSP controlled CW keying waveform shaping

Multi-function electronic keyer with adjustable keying speed from 6–60 wpm, dot-dash ratio from 1:1:2.8 to 1:1:4.5 and paddle polarity

CW pitch control from 300 to 900Hz (5Hz pitch)

CW-Reverse mode operation with selectable normal (default) carrier point

Double key jack system (front and rear panel)

Full break-in and semi-break-in functions

CW/AM auto tuning function helps to zero in on intended signals within ±500Hz range

4 channels of memory keyer with 70 characters of transmit memory

Bug keyer and microphone up/down keyer

Other outstanding features

[Antenna line]

High speed automatic antenna tuner covers HF and 50MHz bands.

BNC type Rx In/Out connectors for receiver antenna or external attenuator, etc.

[Receiver]

General coverage receiver covers from 30kHz to 60MHz

(* Some frequency bands are not guaranteed. Depending on version.)

Two types of receive preamplifiers:

Preamp 1; Increase low level signal improving intermodulation characteristics

Preamp 2; High gain preamplifier

Built-in receive audio equalizer tweaks receive audio with the separate bass and treble controls

7-step attenuator (3, 6, 9, 12, 18, 21dB and OFF)

External speaker connectors for main and sub receiver

[Transmitter]

Tx monitor

50 CTCSS tone encoder and decoder

VOX capability (Voice operated transmission)

All mode power control

[Operation]

Set mode function for flexible and speedy setting

Memory pad stores up to 5 or 10 operating frequencies

Quick split function and frequency lock function for split operation

Triple band stacking register

SSB/CW synchronous tuning

Single knob control from squelch to RF gain

RIT and ∂Tx variable up to 9.999kHz

1Hz pitch tuning and indication

101 memories with 10-character alphanumeric

Auto tuning step function

Firmware update capability from your PC

Built-in voice synthesizer announces operating frequency, mode and signal strength

Programmed scan, memory scan, select memory scan, VSC scan and ∂F scan

Main dial tension control

CI-V interface capability

Optical digital audio input/output

FFT scope averaging function for both PSK and RTTY decoder

BNC type Transverter connector Offset frequency is user programmable and actual frequency is displayed.

UTC/Local Clock and timer function, Screen saver function