



HF ALL BAND TRANSCEIVER

IC-707



Discover the fun of HF

Operating simplicity and convenient size

The IC-707's portable size provides operating versatility in a variety of locations. Moreover, the front panel-mounted speaker enables installation into a panel with no loss in audio quality.

Well spaced switches help avoid accidental input and to provide the simplest of operation, functions have been kept to a minimum. The large, easy-to-read function display shows all necessary information such as frequency, mode, memory channel, etc. And a bar meter indicates S/Rf levels. If you're new to HF operation, this is the transceiver for you. If you're not new to HF, don't feel left out: convenient size* and simple operation make a great combo for portable or mobile operators and veterans can have a second transceiver at a great price.

*240(W) x 95(H) x 239(D) mm; 9.4(W) x 3.7(H) x 9.4(D) in.

32 memory channels (including 5 split memories)

The IC-707 has a total of 25 regular, 5 split, plus 2 scan edge channels. Each memory channel can store frequency, band, mode, etc. for easy recall. In addition, the 5 split memory channels are available for repeater operation. This allows you to communicate with nearby stations who may fall into a band's skip zone.

Stable output power and high sensitivity

A stable 100 W of output power is available. And a large cooling fan ensures that output power remains stable at all times. In addition, the receive circuit offers 0.16 μ V* of high sensitivity. Performance and dependability you wouldn't expect at such an economical price.

*For 10 dB S/N, 1.8000 to 30.0000 MHz, preamp ON.

Band stacking register

This is very convenient when frequently changing bands. The last used frequency in each band is automatically memorized in the register. When you change bands, the last used frequency on that band automatically appears. This feature is great for contesters, DX-peditioners as well as for multi-banders.

Additional features

- Covers all ham bands
- 500 kHz to 30.0 MHz general coverage receiver
- 10 dB preamplifier and 20 dB attenuator
- RIT control that shifts the receive frequency
- Noise blanker that reduces pulse-type noise
- The HM-36 HAND MICROPHONE is supplied
- 2 VFO system
- 2 types of scan
- Affordable price

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SPECIFICATIONS

GENERAL

- Frequency coverage : Receive 0.50000–30.00000 MHz
guaranteed range 500 kHz–30 MHz
Transmit 1.80000–1.99999 MHz
3.50000–3.99999 MHz
7.00000–7.30000 MHz
10.10000–10.15000 MHz
14.00000–14.35000 MHz
18.06800–18.16800 MHz
21.00000–21.45000 MHz
24.89000–24.99000 MHz
28.00000–29.70000 MHz
- Mode : USB, LSB, CW, AM, FM*
*An optional UI-9 FM UNIT is required.
- Number of memory channels: 32 (25 regular, 2 scan edges, and 5 split)
- Antenna impedance : 50 Ω nominal
- Usable temperature range : -10°C to +60°C (+14°F to +140°F)
- Frequency stability : Less than ±200 Hz from 1 min. to 60 min. after power ON. After that, the rate of stability change is less than ±30 Hz/hr. at +25°C; +77°F.
With temperature fluctuations (0°C to +50°C; +32°F to +122°F) less than ±350 Hz.
- Power supply requirement : 13.8 V DC ±15% (negative ground)
- Current drain (at 13.8 V DC) : Transmit 20 A
Receive squelched 1.3 A
max. audio output 2.1 A
- Dimensions : 240(W) × 95(H) × 239(D) mm
9.5(W) × 3.7(H) × 9.4(D) in
(projections not included)
- Weight : 4.1 kg (9.0 lb)

TRANSMITTER

- Output power : SSB, CW, FM 5 to 100 W continuously adjustable
AM 5 to 25 W continuously adjustable
- Modulation system : SSB Balanced modulation
AM Low power modulation
FM Variable reactance frequency modulation
- Spurious emissions : 50 dB below peak output power
- Carrier suppression : -40 dB
- Unwanted sideband : -50 dB
- Microphone impedance : 600 Ω

RECEIVER

- Sensitivity (preamp ON) : SSB, CW (1.8 to 30 MHz) 0.16 μV
AM (0.5 to 1.8 MHz) 12.6 μV
(1.8 to 30 MHz) 2 μV
FM (28 to 30 MHz) 0.5 μV
- Squelch sensitivity (preamp OFF) : SSB/CW 5.6 μV
FM 1 μV
- Selectivity : SSB, CW More than 2.1 kHz/-6 dB
Less than 4.0 kHz/-60 dB
AM More than 6.0 kHz/-6 dB
Less than 20.0 kHz/-40 dB
FM More than 12 kHz/-6 dB
Less than 30 kHz/-50 dB
- Spurious and image rejection response : -70 dB
- Audio output power : More than 2.6 W with an 8 Ω load
- RIT variable range : ±1.2 kHz

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

OPTIONS

Some options may not be available due to local regulations.

■ LINEAR AMPLIFIERS

- **IC-4KL** 1kW LINEAR AMPLIFIER
All solid-state linear amplifier. The amplifier/power supply unit and remote control unit are separated.
- **IC-2KL** 500 W LINEAR AMPLIFIER
All solid-state linear amplifier. The power amplifier unit can be separately set-up from the power supply unit.
(An optional OPC-118 is required.)

■ AUTOMATIC ANTENNA TUNERS, ANTENNA ELEMENT AND ANTENNA SELECTOR

- **IC-AT500** 500 W AUTOMATIC ANTENNA TUNER
Best match for the IC-707 with the IC-2KL. Includes an automatic antenna selector for 4 separate antennas.
(An optional OPC-118 is required.)
- **AT-160** 100 W AUTOMATIC ANTENNA TUNER
Can be attached to the IC-707 side panel. Power and tuning are controlled through the IC-707.
- **AT-150** 100 W AUTOMATIC ANTENNA TUNER
Style and size are matched with the IC-707. Includes an automatic antenna selector for 3 separate antennas, moreover, a long wire antenna can be tuned.
- **AH-3** 100 W AUTOMATIC ANTENNA TUNER
Matches the IC-707 to a long wire antenna for portable or mobile operation. Matches a more than 12 m long wire to all bands between 1.8 to 30 MHz.
- **AH-2b** ANTENNA ELEMENT
A 2.5 m long antenna element for mobile operation with the AH-3. All bands between 3.5 to 30 MHz can be matched.
- **EX-627** AUTOMATIC ANTENNA SELECTOR
Automatically selects the antenna. 9 separate antennas

can be connected. Manual selection is also possible.
Max. input power: 1000 W PEP

■ DC POWER SUPPLIES

- **IC-PS30** DC POWER SUPPLY
A system power supply for the IC-707. 3 extra output connectors are included. (13.8 V DC/25 A)
- **PS-85** DC POWER SUPPLY
Style and size are matched to the IC-707. (13.8 V DC/20 A)

■ EXTERNAL SPEAKERS

- **IC-SP3** EXTERNAL SPEAKER (8 Ω/4 W)
- **SP-7** EXTERNAL SPEAKER (8 Ω/5 W)
- **SP-20** EXTERNAL SPEAKER (8 Ω/5 W)
- **SP-21** EXTERNAL SPEAKER (8 Ω/5 W)

■ MICROPHONES

- **SM-6** DESKTOP MICROPHONE
- **SM-8** DESKTOP MICROPHONE
- **SM-20** DESKTOP MICROPHONE
- **HM-36** HAND MICROPHONE

■ BEST MATCH OPTIONS FOR THE IC-707

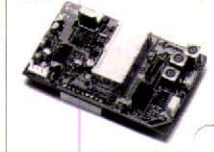
• PS-85



• AH-3 or AT-160



• UI-9



■ INTERNAL UNITS AND FILTERS

- **UI-9** FM UNIT
Provides FM transmission/reception. Easily installed.
- **UT-30** PROGRAMMABLE TONE ENCODER UNIT
Provides 38 programmable subaudible tones.
- **CR-338** HIGH-STABILITY CRYSTAL UNIT
For improved frequency stability.
Frequency stability: 0.5 ppm (-30°C to +60°C)
- **FL-52A/FL-53A** CW NARROW FILTERS
Passband width FL-52A: 500 Hz/-6 dB
FL-53A: 250 Hz/-6 dB

■ OTHERS

- **CT-16** SATELLITE INTERFACE UNIT
Easy tuning for instant satellite communications.
- **CT-17** CI-V LEVEL CONVERTER
For remote transceiver control using a personal computer.
Equipped with an RS-232C output port.
- **IC-MB5** MOBILE MOUNTING BRACKET
- **MB-23** CARRYING HANDLE

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