

ICOM

HF/VHF/UHF ALL MODE TRANSCEIVER

IC-706MKIIIG



160m-70cm
HF+6m+2m+70cm



The amazing evolution of the '706' series...

Icom Inc.

THE AMAZING EVOLUTION OF THE '706' SERIES...

IC-706



This ground-breaking transceiver offered mobile-sized compactness—including a detachable front panel, with base station class performance and features. And all mode operation from the HF bands to VHF.



IC-706MKII

The IC-706MKII incorporated all of the wizardry of the IC-706 with refined features and user-friendliness, as well as enhanced performance.

The IC-706MKIIG carries on the '706' series tradition of base station performance and features in a mobile rig-sized package. Building on this legacy, frequency coverage is expanded to the 70 cm band and output power is increased for the 2 m band. A long list of enhancements, both to usability and performance, as well as added features and functions have produced the latest in the evolution of the '706' series.



160m-70cm

HF/VHF/UHF ALL MODE TRANSCEIVER

IC-706MKIIG



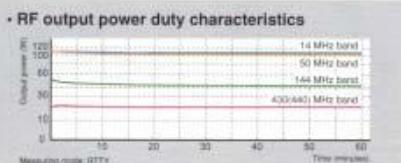


HF to 70 cm band coverage

Operating frequency range has been expanded to the 70 cm band. Of course, all mode operation (SSB, CW, RTTY, AM and FM) is possible and a full 100 W of output power is available for HF and 6 m operation; 50 W for 2 m and 20 W for 70 cm operation.

High stability transmitter

MOS-FET power amplifiers are employed at the PA unit for all HF, 6 m, 2 m and 70 cm bands. And, a one piece aluminum, die-cast chassis with a large cooling fan is employed. This combination provides stable, high quality output with low IMD and low spurious emissions even during full duty cycle and extended operation.



Illuminated keys and switches

Backlighting of keys and switches is a great help during nighttime operation—the intensity is even adjustable!

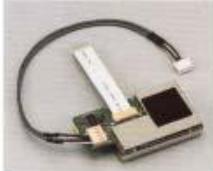


Tone squelch standard

Tone squelch operation is available in FM mode for basic signalling and quiet standby. Tone frequencies can be set independently for tone squelch (Tx/Rx) and repeater tones, and a range of 50 frequencies is available. A tone scan function is available to search for a repeater's access tone quickly and easily.

DSP features

DSP capabilities are available*. These include noise reduction and auto notch functions. Superior receive quality in your shack, vehicle or during DXpeditions.



*AF DSP; UT-106 DSP UNIT required for some versions.

Compact with detachable panel*

The IC-706MKIIG is very compact at 167(W) × 58(H) × 200(D) mm* and weighs a mere 2.5 kg*, making it ideal for DXpeditions, etc. A detachable front panel allows easy installation in your shack or in a wide variety of mobile applications.

*An optional separation cable is required;
*6 1/16(W) × 2 1/32(H) × 7 7/8(D) in; **5.5 lb.

Automatic repeater function*

An automatic repeater function is available and repeater frequencies can be programmed via a special operation. This eliminates the need for repeater settings for 6 m, 2 m or 70 cm repeater operation.

*Standard for USA version; programming required for others.

Optional high frequency stability

±0.5 ppm of high frequency stability is provided when an optional CR-282 HIGH STABILITY CRYSTAL UNIT is installed.

Simple operation

The individual band change key, a sub dial and quick band change capability provide simple operation. The individual band change key allows quick and easy QSY, the sub dial enhances mobile and memory operation, and the quick band change capability selects pre-set frequency bands with the last-used frequency and mode. Also, each band can store preamplifier/attenuator and tuner on/off settings.

Simple band scope function

This function sweeps ±14 steps from the displayed frequency and plots received signal strength on the function display. This function is useful not only for checking HF band conditions, but also seeking vacant frequencies during VHF or UHF FM operation.



Narrow FM capability

For FM operation on the 10 m or the 2 m (where narrow FM is required) bands, the IC-706MKIIG has narrow FM capability that allows you to take advantage of this operating mode.

107 memory channels with alphanumeric name capability

99 channels can memorize both transmit and receive frequencies separately; 6 channels are for programmed scan edges; and 2 channels are for call memory for the 2 m and 70 cm bands. And, up to 9-character alphanumeric names can be programmed into each memory channel.

And more...

- Up to 3 selectable passband widths
- Built-in electronic keyer
- CW reverse function
- Adjustable CW pitch
- Full break-in (QSK)
- IF shift
- Interference rejection
- Superior audio characteristics
- Continuously adjustable RF output power
- VOX
- AF speech compressor
- RF gain control
- Adjustable SSB carrier point
- 4 scan types
- Noise blower
- Receiver protection circuit
- RIT
- Selectable AGC time constant
- Optional voice synthesizer
- CI-V capability
- Digital, multi-function S/RF meter
- Optional antenna tuners (control circuit built-in)



SPECIFICATIONS

GENERAL

- Frequency coverage:

Receive	0.030–199.999 MHz*	400–470.000 MHz*
Transmit	3.5–3.999 MHz*	3.5–3.999 MHz*
	7.0–7.200 MHz	10.1–10.150 MHz
	14.0–14.350 MHz	18.068–18.168 MHz
	21.0–21.450 MHz	24.889–24.990 MHz
	28.0–29.700 MHz	50.0–54.000 MHz*
	144.0–148.000 MHz*	430.0–450.000 MHz*
- *Varies according to version.
- Mode: USB, LSB, CW, RTTY (FSK), AM, FM, WFM (FM only).
- No. of memory ch.: 107 (99 regular, 6 scan edges, 2 call channels).
- Antenna connector: SO-239×2 (for HF/50 MHz and 144/430 MHz)/50 Ω
- Power supply requirement: 13.8 V ±15% (negative ground).
- Frequency stability: Less than ±2 ppm from 1 min. to 60 min. after power on. After that rate of stability less than ±1 ppm/hr at +25°C (+77°F). Temperature fluctuations: 0°C to +50°C (+92°F to +122°F) less than ±5 ppm.
- Current drain:

Transmit	max. power	20 A
Receive	standby	1.8 A
	max. audio	2.0 A
- Usable temp. range: -10°C to 60°C (14°F to 140°F).
- Dimensions: 167(W) × 59(H) × 200(D) mm (projections not included). 6.15(W) × 2.36(H) × 7.9(D) in.
- Weight: 2.45 kg (5 lb 6 oz).
- CI-V connector: 2-conductor 3.5 (d) mm (1/8")
- ACC connector: 13-pin

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

OPTIONS



Covers all HF and 50 MHz bands, provides clean, stable 1 kW output. Automatic antenna tuner and compact detachable controller are standard. 2 exciter inputs are available. (An optional OPC-599 is required.) (Not available for EU countries)



• AH-2b ANTENNA ELEMENT
For mobile operation with the AH-4. All bands between 7–54 MHz can be matched.



• AH-4 HF+50 MHz AUTOMATIC ANTENNA TUNER
Covers 3.5–54 MHz with a 7 m (23 ft) or longer wire antenna.



• AT-100 HF+50 MHz AUTOMATIC ANTENNA TUNER
Style and size are matched to the IC-706MKIIIG.



• PS-86 DC POWER SUPPLY
Output: 13.8 V DC (20 A max.)
(Not available for EU countries)



• PS-125 DC POWER SUPPLY
Compact power supply with high current capability.
Output: 13.8 V DC (20 A max.)



• MB-62 MOBILE MOUNTING BRACKET
For mounting the IC-706MKIIIG main unit or the AT-100.



• MB-63 MOBILE MOUNTING BRACKET
For mounting the detached front panel in a vehicle. The MB-63 is required.



• MB-65 MOUNTING BASE
For mounting the detached front panel in a vehicle. The MB-63 is required.



• OPC-581/OPC-587 SEPARATION CABLES
Provides separate operation.
OPC-581: 3.5 m (11 ft)
OPC-587: 5 m (16 ft)



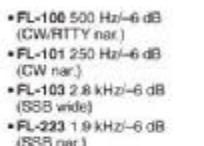
• SM-20 DESKTOP MICROPHONE
High quality desktop microphone.
(An optional OPC-589 is required.)



• UT-105 DSP UNIT
Provides AF/DSP functions such as noise reduction and auto notch. Built-in to some versions.



• 9 MHz FILTERS
Have good shape factor and provide you with better reception.



• FL-100 500 Hz/-6 dB (CW/RTTY nar.)

• FL-101 250 Hz/-6 dB (CW nar.)

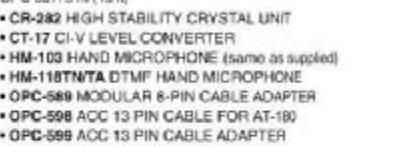
• FL-103 2.8 kHz/-6 dB (SSB wide)

• FL-223 1.9 kHz/-6 dB (SSB nar.)

• FL-232 350 Hz/-6 dB (CW/RTTY nar.)



• MB-72 CARRYING HANDLE
Convenient when for DXpeditions, operating in the field, etc.



• CR-282 HIGH STABILITY CRYSTAL UNIT
• CT-17 CI-V LEVEL CONVERTER
• HM-103 HAND MICROPHONE (same as supplied)
• HM-118/T/A DTMF HAND MICROPHONE
• OPC-589 MODULAR 6-PIN CABLE ADAPTER
• OPC-599 ACC 13 PIN CABLE FOR AT-100
• OPC-599 ACC 13 PIN CABLE ADAPTER
• OPC-742 ACC 13 PIN CABLES
• SP-7 EXTERNAL SPEAKER
• SP-10 EXTERNAL SPEAKER (Not available for EU countries)

• UT-102 VOICE SYNTHESIZER UNIT

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ISO 9001



Certificate Number Q14190

Icom Inc. (Japan) is an ISO9001 certification acquired company.

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