

IC-706MKIIG



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-706MKHG carries on the '706' series tradition of base station performance and features in a mobile rig-sized package. Building on this legacy, frequency cover-

age 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













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, diecast 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 squeich 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 in-

clude noise reduction and auto notch functions. Superior receive quality in your shack, vehicle or during DX'pedi-



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

Compact with detachable panel*1

The IC-706MKIIG is very compact at 167(W) × 58(H) × 200(D) mm*c and weighs a mere 2.5 kg*s, making it ideal for DX'-peditions, 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%*e(W)×2%:e(H)×7%(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 STA-BILITY 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 blanker • 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)



IC-706MKIIG

SPECIFICATIONS

GENERAL

Tonor of the

5.5-5.550 MHz 1.6-1.003.684 10.1-10.150 MHz 16.068-16.166 MHz 7.0-7 300 Miles 21.0-21.450 MHz 28.0-29.700 MHz 24.89-24.990 MHz 144 D-145 000 Mess 430 0-450 000 MHz

Yarles according to version.
- USB, USB, CW, PITTY (FSK), AM, FM, WFM. - 15-6-

50-239-2 (for HF/50 MHz and 144/430 MHz/50 (3 * Antenna connector

· Proper margin measure

• Francisco etablika

rt. 13.8 V a15% (regative ground) Less than a7 ppm from 1 min. to 60 min. after power on. After that rate of stability less than a1 pprofits at +25°C (+77°F). Tempera-ture fluctuations 0°C to +50°C (+32°F to +122°F) less than a5 ppm.

Transmit max power 20 A Receive standary 1.6 A max audio 2.0 A -10°C to 80°C (14°T to 140°T) + Current drain 1.8A · Literature terrorio concer-

167(W) × 58(H) × 200(D) mm d) 61%(W) × 21%(H) × 71%(D) in 2.45 kg (5 in 6 mr) - Dimensions (projections not incl. + Weight

• CI-V connector • ACC connector 2-conductor 3.5 (d) mm ('n') 13-pin

ns are subject to change without notice or obligations

TRANSMITTER

	SSB/CW/PITTY/PM	AM
HF/50 MHz	5-100 W	2-40 W
144 MHz	5-50 W	2-20 W
eeu Minc	2-20 W	2-6 W

· Madulation souls Low level modulation -50 dll typ. (HF bands) · Specializate appropriate

Less than -60 dB rather bands - Carrier supplement More than 40 dB

 Unwanted adebard More than 50 dB 8-pin modular jack (600 G) 3-conductor 6.35 (d) mm ("ii") 3-conductor 5.5 (d) mm ("ii") Microphone communication - RTTV commonly

RECEIVER

SSB-CW-AMWFM Triplie is aperfusherochase

> 3rd 2nd 160 | 16 | 200 | 15 | 2011 | 2011 | 2011 | 2011 | 2011 | 2011 | 2011 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 | 2010 0.456

· Receive secretivity (preamp on except 4-4.5 and 5-5 MHz):

	SSB/CW 10 db S/N	10 (6 5/N	FM 12 dB SINAD	WFM 12 dB SINAC
0.5-1.8 MHz	-	13 pV	-	-
1.8-28 MHz	0.15 pV	20 //	-	100
29-29.7 MHz			0.5 µV	-
50 MHSt band	0.12 pr	1.0 pW	W(25.0	100
76-108 MHz	-	-	-	10.0 µV
144/440 MHz Band	9.11 W	1.0 y/	0.18 pV	-

· Smurick securivity Less than 5.6 µV

SSB, CW BITTY

ARREST AV More then E.O.Mitel & offi-PM More than 12 kHz/-6 dB Less than 30 kHz/-50 dB

Sportous and Image More than 70 dS More than 65 dB (secret IF through)

TARRESCHAFT SHOP More then 65 off. More than 2.0 W (at 13.8 V DC) Audio output power · FILT variable range +5.59 kHz

3-conductor 3.5 (d) mm (14'). A EXT SP connector 2-conductor 3.5 (d) mm/2's VR (2

Supplied accessories:

All stated specifical **OPTIONS**



* IC-PW1 HF+50 MHz 1 kW HF LINEAR AMPLIFIER vers all HF and 50 MHz bends, provides clean, stable 1 kW output Automatic antenna tuner and compact detachable controller are stan-dard. 2 exciter inputs are available. (An optional OPC-596 is required.)



- AH-2b ANTENNA ELEMENT For mobile operation with the Ari-4. All bands between 7-54 MHz



MATIC ANTENNA TUNER Covers 3.5-54 MHz with a 7 m



AT-180 HF+50 MHz AUTO-MATIC ANTENNA TUNER Style and size are matched to the



· PS-85 DC POWER SUPPLY



MB-62 MOBILE MOUNTING BRACKET For mounting the IC-706MKRG main unit or the AT-160.



- MB-63 MOBILE MOUNTING BRACKET For mounting the detached front

9 MHY FILTERS

wide you with butter reception.



- MB-65 MOUNTING BASE For incunting the detached front panel in a vetacle. The M6-63 is

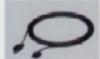
+ FL-100 500 Hz!-6 dB

(CW/RITTY nur.) *FL-101 250 Hz/-6 dB

+ PL 100 2.8 HHz 6 dB

(SSB wide) +FL-223 1.9 kHz:-6 dB

• FL-232 350 Hz/-6 dB (CW/RTTY ner.)



+ OPC-581/OPC-587 SEPARATION CABLES OPC-581: 3.5 m (11 ft) OPC-587: 5 m (16 ft)



* MB-72 CARRYING HANDLE tions, operating in the field, etc.



SM-26 DESKTOP MICROPHONE An optional CIPC Hate is required)



- SM-8 DESKTO MICROPHONE (An optional CPC-50% is required).

CB. 989 HIGH STABILITY CRIVSTAL UNIT + 07-16 DATELLITE INTERFACE UNIT CT-17 CI-V LEVEL CONVERTER

+ HM-103 HAND MICROPHONE (same

· CMC-400 MOOST AR R-PIN CABLE ADAPTER OPC-598 ACC 13 PIN CABLE FOR AT-180

OPC-599 ACC 13 PIN CABLE ADAPTER

· OPG-742 ACC 13 PIN GABLES • SP-7 EXTERNAL SPEAKER

· SP-10 EXTERNAL SPEAKER • SP-12 EXTERNAL SPEAKER

· UT-102 VOICE SYNTHESIZER UNIT

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Count on us!

Icom America Inc.

* UT-106 DSP UNIT

as noise reduction and auto notice.

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

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