HF/VHF/UHF ALL MODE TRANSCEIVER

35W output in 70cm band
High power MOS-FET amps supply 35W output power on 430/440MHz band as well as 100W on HF/50MHz bands and 50W on 144MHz. It provides stable, high quality output with low IMD and low spurious emissions even during high duty cycle and extended operation.

Digital noise reduction
Noise reduction reduces background noise and improves signal-to-noise ratio. The noise reduction level is adjustable in 16 steps. It improves the readability of voice and data signals.

Digital noise blanker
The noise blanker reduces pulse-type noise such as engine ignition and sparking. The NB level and width (blanking duration) are adjustable in 100 steps.

High stability crystal unit
The IC-7000 incorporates a high-stability master oscillator, providing 0.5ppm (–0°C to +50°C). A must for data mode operation.

Compact, all in one package
The IC-7000 sheds 20mm (~0.78 in) of depth compared with the IC-706MKIIIG. It’s compact body is easy for carrying outdoors or mobile operation.

Digital IF filters
All the filters you want at your fingertips! You will never have to purchase “Optional” filters as the IC-7000 has adjustable digital filters. You just dial in the width you want and select whether you want a sharp or soft filter shape for SSB and CW modes. Then to pull-in the the weak ones, with a quick turn of the concentric twin PBT knobs, you can either narrow the IF passband, or shift the entire passband to eliminate the QRM.

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, medium, and narrow — and an auto-tuning notch filter is available, too.

AGC loop performance controlled by DSP
You will never experience AGC pumping from a signal filtered out by the DSP system. The digital IF filter and manual notch filter are inside the AGC loop, so you will not encounter AGC blocking. The AGC time constants are flexibly adjustable from slow, middle, fast (or AGC-off) for each operating mode.

Performance

First in its class, IF DSP model

The technical properties
DSP found in our leading products now offers its superior performance in HF, 50MHz, 144MHz and more.
User-friendly key allocation
Eight of the most-used radio functions such as NB, NR, MNF, and ANF are controlled by dedicated function keys grouped around the display for easy visibility. One quick touch turns the function on and off. A longer touch activates adjustment of the function’s setting.

Digital voice recorder (DVR)
Record your callsign, CQ, or other information in 4 transmit playback memories with alphanumeric labels. A total of 90 seconds is available for the four memories. A front panel REC control allows you to record incoming signals for up to 25 minutes (99 channels)*. The DVR makes portable contesting or mini-expeditions a breeze!

Built-in RTTY demodulator
The RTTY demodulator and decoder are built-in. External units and PC are no longer required for decoding. The twin peak audio filter reduces interfering signals overlapping the tones and the tuning indicator helps you zero-in with accurate tuning.

Remote control microphone, HM-151
The HM-151 has a 10-keypad for quick channel selection. The triple band stacking register memorizes the last three frequencies and modes used on each band. Push the band button once to three times to recall the channel setting. The F-1 and F-2 buttons are programmable as shortcut menus of your often used functions.

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, in addition to a large operating frequency readout. And more, the video output jack on the rear panel allows you to view a magnified display on an external monitor*.

SSB transmit bandwidth adjustable
The SSB transmit bandwidth is selectable from 100, 200, 300, 500Hz at the high-pass edge, and 2500, 2700, 2800, 2900Hz at the low-pass edge respectively. 3 types of high and low combinations can be set in the quick set mode.

2-mode band scope
The band scope function lets you watch conditions around the band and visually assists in finding other stations. In center mode the band scope range is centered on the receiving frequency (±10kHz to ±250kHz). In Fixed mode the band scope sweeps a fixed range.

Multi function meter and SWR graphic display
The IC-7000 displays power level, SWR*, ALC and compression level of the speech compressor. The SWR graphic display* is useful for tuning antennas. The measuring step is selectable from 10/50/100/500kHz steps and the number of measuring steps is adjustable from 3 to 13 steps. (* HF/50MHz band only)

Other outstanding features
- Front panel separation with optional 3.5m/5m separation cable
- Selectable main dial tension from heavy, light and click
- RF speech compressor controlled by the DSP
- CW full break-in
- CW pitch adjustable
- Tone squelch in FM mode
- 503 memory channels
- Built-in voice synthesizer announces operating frequency, mode and signal strength
- Duplex mode and automatic repeater function
- Transmit monitor
- DTMF monitor
- 1Hz tuning
- VOX
- CI-V interface
- RIT/ΔTX
- RF/SQL knob
- Large speaker
- Auto TS function
- Thermo control silent cooling fan
- Noise squelch and S-meter squelch
- Preamplifier
- Dial lock
- 20dB attenuator
- Thermo control silent cooling fan
- Noise squelch and S-meter squelch
- Preamplifier
- Dial lock
- 20dB attenuator

* 3.5(d) mm monaural cable is required for connection.
HF/VHF/UHF ALL MODE TRANSCEIVER

**SPECIFICATIONS**

### GENERAL

- **Frequency coverage (unit: MHz)**:
  - Receive: 0.030–199.999
  - Transmit: 1.800–1.999
- **Dimensions**: 167 (W) x 180 (D) x 448 (H) mm
- **Weight**: 2.3kg; 5.1lb
- **Power consumption**:
  - Tx Max. power: 22.0A
  - Rx Standby: 1.3A
- **Intermediate frequencies**:
  - HF: 5700
  - VHF: 455kHz
  - UHF: 16kHz
- **Sensitivity (Pre-amp: ON)**:
  - HF: Less than 0.1µV
  - VHF: Less than 1µV
  - UHF: Less than 1µV
- **Output power**:
  - HF: 100W
  - VHF: 50W
  - UHF: 5W
- **Modulation system**:
  - SSB: Digital P.S.N. modulation
  - AM: Digital low power modulation
  - FM: Digital phase modulation
- **Modulation deviation**:
  - HF: 7.3kHz
  - VHF: 7kHz
  - UHF: 5kHz
- **Selectivity (representative value)**:
  - HF: 3kHz/–60dB
  - VHF: 3kHz/–60dB
  - UHF: 3kHz/–60dB
- **Spurious emissions**:
  - Less than –50dB (HF bands)
  - Less than –60dB (VHF bands)
  - Less than –70dB (UHF bands)
- **Carrier suppression**:
  - More than 50dB (HF bands)
- **Spurious and image rejection**:
  - More than 70dB (HF/50MHz bands)
  - More than 65dB (144/440MHz bands)
- **Frequency stability**:
  - Less than ±0.5ppm
- **Mode**:
  - USB, LSB, CW, RTTY, AM, FM
- **Interchangeable bandswitch**:
  - HF/50MHz
  - SSB
  - CW
  - FM
- **Antenna**:
  - 144/440MHz
  - 0.5–1.8MHz
- **Interchangeable connectors**:
  - 23-pin PANEL
  - 2-pin EXT SP connector
- **Fuses**:
  - Spare fuses
- **Audio**:
  - AF output power: More than 2.0W at 10% distortion
  - V (76–108MHz): 0.12V (at 13.8V DC)
  - V (50–54MHz): 0.11V
  - V (144–146MHz): 0.11V
  - V (144–146MHz): 0.11V
- **RF connectors**:
  - 7-pin + 8-pin ACC connector for external speaker
  - OPC-599: 3.5m (11ft)
- **AC power sources**:
  - 100–240V, 50–60Hz
- **Optical output**:
  - More than 30dB
- **AF output power**:
  - More than 20W at 10% distortion
- **EXT SP connector**:
  - 2 conductor (3.5 d) mm (1/8) & 1/4"}

### OPTIONS

- **CM-151 REMOTE CONTROL MICROPHONE**
- **CM-152 CARRYING HANDLE**
- **OPC-1443/1444 SEPARATION CABLES**
- **OPC-589 MODULAR 8-PIN CABLE ADAPTER**
- **OPC-599 ADC 13 PIN LONG CABLE FOR AT-180**
- **BAT-62 MOBILE MOUNTING BRACKET**
- **MB-65 MOUNTING BASE**
- **SM-20 DESKTOP MICROPHONE**
- **MB-105 MOUNTING BRACKET**
- **OPC-722 ACC 13 PIN CABLE ADAPTER**

### SUPPLIED ACCESSORIES

- Hand microphone, HM-151
- DC power cable
- Spare fuses
- ACC cable (13-pin)
- Electronic keyer plug
- RTTY key plug
- Microphone hanger

**IC-7000**

Covers all HF and 50MHz bands, provides clean, stable 1kW output. Automatic antenna tuner and compact detachable controller are standard. 2 exciter inputs are available. (An optional OPC-599 is required.)

### READER INSTRUCTIONS

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

Icom Inc.

1-13-2, Kami-mimino, Hirano-ku, Osaki 257-0003, Japan

Phone: +81 (06) 6793 5302
Fax: +81 (06) 6793 0013

URL: http://www.icom.co.jp/world/index.html

Count on us!

**Your local distributor/dealer:**

- **Icom America Inc.**
  2380 116th Avenue NE, Bellevue, WA 98004, U.S.A.
  Phone: +1 (425) 454-8155
  Fax: +1 (425) 454-1509
  E-mail: sales@icomamerica.com
  URL: http://www.icomamerica.com

- **Icom Canada**
  1500: 61465 Highway 17,
  Delta, B.C. V4K 588, Canada
  Phone: +1 (604) 952-4866
  Fax: +1 (604) 952-0999
  E-mail: info@icomcanada.com
  URL: http://www.icomcanada.com

- **Icom (Australia) Pty. Ltd.**
  Unit 1/102 Garden Road
  Clayton, VIC 3168, Australia
  Phone: +61 (3) 9549 7500
  Fax: +61 (3) 9549 7565
  E-mail: sales@icom.net.au
  URL: http://www.icom.net.au

- **Icom New Zealand**
  144A Road, East Tamaki, Auckland
  Phone: +61 (09) 274-4062
  Fax: +61 (09) 274-4074
  E-mail: inquiries@icom.co.nz
  URL: http://www.icom.co.nz

- **Icom (Europe) GmbH**
  Himmelpfortstr. 100,
  D-60625 Frankfurt, Germany
  Phone: +49 (0111) 340647
  Fax: +49 (0111) 33309
  E-mail: info@icom-europe.com
  URL: http://www.icom-europe.com

- **Icom Spain S.L.**
  C/ Cugat del Valles, 8
  08190, Sant Cugat del Vallés, Barcelona, Spain
  Phone: +34 (93) 590 26 70
  Fax: +34 (93) 590 04 46
  E-mail: icom@icomspain.com
  URL: http://www.icomspain.com

- **Icom (UK) Ltd.**
  Unit 9, Sea St., Herne Bay,
  Kent, CT6 8LD, U.K.
  Phone: +44 (01227) 741741
  Fax: +44 (01227) 741742
  E-mail: info@icomuk.co.uk
  URL: http://www.icomuk.co.uk

- **Icom France s.a.s.**
  Zac de la Plaine
  51 Rue Brindisi, des Mouillans, BP 45804,
  31500 Toulouse Cedex 5, France
  Phone: +33 (5) 61 36 03 03
  Fax: +33 (5) 61 36 03 00
  E-mail: icom@icom-france.com
  URL: http://www.icom-france.com

- **Asia Icom Inc.**
  6F No.6, Sec. 1, Cheng-Teh Road,
  Telai, Taichung, R.O.C.
  Phone: +886 (02) 2559 1899
  Fax: +886 (02) 2559 1874
  E-mail: sales@asia-icom.com
  URL: http://www.asia-icom.com

- **Beijing Icom Ltd.**
  10001 Long Yuan Mansu, No.88, Yong Ding Rd.,
  Haidian District, Beijing, 100035, China
  Phone: +86 (010) 5889 5396
  Fax: +86 (010) 5889 5395
  E-mail: bjicom@bjicom.com
  URL: http://www.bjicom.com

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