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.

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.

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.

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.

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.

Performance

Basic performance exceeds your expectations

DDS (Direct digital synthesizer) circuit
Icom’s original DDS (Direct digital synthesizer) circuit improves the C/N ratio, providing a clear, clean transmit signal in all bands.

Compact, all in one package
The IC-7000 sheds 20mm (¾ in) of depth compared with the IC-706MKIIIG. It’s compact body is easy for carrying outdoors or mobile operation.
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! * Up to 120 seconds per channel

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.

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 receive reverse • 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 • RTTY/set • RF/SQL knob • Large speaker • Auto TS function • Thermo control silent cooling fan • Noise squelch and S-meter squelch • Preamplifier • Dial lock • 20dB attenuator

Key illumination
Voice RX memory

Negative type
Color type
Positive type

Fixed mode band scope
Multimeter screen

Rear panel
Keyer jack
Data jack
Acc socket
Tuner socket
Microphone connector
External speaker jack
DC power socket
Antenna connector for 144/430/440MHz bands
RTTY jack
Antenna connector for HF/50MHz bands

Practical functions and operations
HF/VHF/UHF ALL MODE TRANSCEIVER

**IC-7000**

### SPECIFICATIONS

**GENERAL**
- Frequency coverage (unit: MHz): Received: 0.030–199.999*, Transmit: 1.800–1.999, 3.500–3.999
- 5.3305, 5.3465, 5.3665, 5.3715, 5.4035* 2 exciter inputs are available. (An optional OPC-599 is required.)
- Automatic antenna tuner and compact detachable controller are standard.
- Covers all HF and 50MHz bands, provides clean, stable 1kW output.
- All stated specifications are subject to change without notice or obligation.

**TRANSMITTER**
- Modulation system:
  - SSB: Digital P.S.N. modulation
  - AM: Digital low power modulation
  - FM: Digital phase modulation

**Output power**
- HF: 50MHz: 200W, 144MHz: 40W, 540MHz: 40W

**RECEIVER**
- Intermediate frequencies:
  - SS: 2–50W, RTTY: 10W, AM: 100W, CW: 50W
- FM: 2–35W
- WFM: 2–50W

### OPTIONS

- **IC-PW/L/IC-PW/EURO**
  - HF: 50MHz, 1kW
  - HF LINEAR AMPLIFIER

- **CABLE ADAPTER**
  - OPC-1443/OPC-1444 SEPARATION CABLES
  - OPC-589 MODULAR 8-PIN CABLE ADAPTER
  - OPC-599 ACK 13 PIN CABLE ADAPTER

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

- **SP-10 EXTERNAL SPEAKER**
  - Heavy duty speaker for mobile use.

- **MB-62 MOBILE MOUNTING BRACKET**
  - For mounting the IC-7000 main unit on the AT-180.

- **MB-65 MOUNTING BASE**
  - For mounting the detachable panel in a vehicle. The MB-105 is required.

- **MB-105 MOBILE MOUNTING BRACKET**
  - For mounting the detachable panel.

- **MB-74 ACC 13 PIN CABLE ADAPTER**
  - Converts 13-pin ACC connector to 7-pin or 8-pin ACC connector for connection with IC-PW/EURO.

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

- **SF-20**
  - Hand microphone, HM-151 – DC power cable
  - Spare fuses – ACC cable (13-pin)
  - Electronic keyer plug – RTTY key plug
  - Microwave hanger

### READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

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**Some options may not be available in some countries. Please ask your dealer for details.**

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**Count on us!**