



ICOM

RADIO PRODUCTS -
TRANSCEIVER

IC-7000 HF/VHF/UHF All Mode Transceiver

The Superior IF DSP is Now Available on Mobile HF, 50MHz, 144MHz and 430/440MHz bands



IF DSP — First in its class

Digital IF filter, manual notch filter, digital twin PBT and more. The latest digital features are incorporated in this compact radio from two DSP chips that deliver superior processing performance. Of course, those features work on all ham bands, from HF to the 70cm band

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.

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.

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.

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 (25/32 in) of depth compared with the IC-706MKIIG. Its compact body is easy for carrying outdoors or mobile operation.

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