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ICOM

RADIO PRODUCTS -
TRANSCEIVER

IC-78 HF Transceiver

Reliable Straight Forward HF Communications



The IC-78 is a high performance HF transceiver. Innovative features such as 99 memory channels, high C/N ratio, direct channel entering, data communication capabilities and more, offer easy operation for anyone. All these features come in a compact, rugged package that can be conveniently used in a base station or in a vehicle, as you prefer.

Durable, powerful construction

The IC-78 delivers a powerful 100 W of output power, providing the talk power you need to reach the most distant locations.

Its one-piece, die-cast aluminum construction combined with a large heat sink, helps keep internal temperatures down and ensures that operation is stable at high duty cycles. And its compact size of 240(W) × 95(H) × 239(D) mm* makes installation easy.

* 97/16(W) × 33/4(H) × 913/32(D) in.

Simple operation

The IC-78 is equipped with a large easy-to-read LCD. A minimum number of switches and controls allow for superior feature selectability. Keys access functions directly - there's no secondary function key. You can enter your operating frequency*, or memory channel number directly from the 10-key pad.

* depending on version

Ample 99 channels with 8-digit channel name capability

An affordable 99 duplex memory channels are available for storing individual transmit and receive frequencies, operating mode, filter setting, as well as 8-character channel names. You can enter channel assignments easily from the 10-key pad. In addition, an extra 1 call memory is available for storing the most often used, or most important frequency. An independent, one-touch recall switch is available.

Superior basic performance

A 4-element system is employed for the 1st receive mixer, providing superior receive IMD, especially from in-band, nearby interfering signals. A well-designed double-conversion system to help minimize image and spurious responses for better signal fidelity, is also built-in. A newly designed PLL circuit has been adopted to improve C/N ratio characteristics. The combination of the 4-element system mixer and new PLL circuit allows superior basic performance.

Front mounted loud speaker

With the speaker facing the operator, audio sounds can be clearly heard without impediment during operation. It is no longer necessary to manually increase the volume to try and capture audio sounds.

High frequency stability

When the optional CR-338 HIGH STABILITY CRYSTAL UNIT is installed, it allows up to ± 0.5 ppm of extremely high stable operation.

Flexible filter selection

An optional IF filter can be installed into the transceiver, providing 5 passband widths selectable in SSB, CW or RTTY modes.

VFO mode operation*

For continuous frequency operation, VFO mode operation* capability is available. It is convenient when searching for signals, around the programmed frequencies, such as short wave broadcasts, etc.

* depending on version

Superior features support serious communications

Direct channel selection

A 10-key pad has been adopted on the front panel. A channel number, or an operating frequency*, can be entered from the keypad directly. Also, memory channel editing is possible. A large channel selector and up/down keys are available to suit your operating style for your convenience. Total and simple operation is provided!

* depending on version

Cloning capability

Programmed data cloning capability between transceivers is available, so that an identical transceiver setting can be made immediately.

Built-in 2-tone alarm*

The 2-tone alarm for an emergency signal transmission is built-in*. Independent tone switch is adopted for quick and simple emergency calls.

* depending on version

Data communications

In addition to the current voice and key operation, FSK (First Shift Keying) type RTTY mode is available. By connecting a terminal unit or terminal node controller to the ACC socket on the rear

panel, data acquisition and text-base file transfers and other data communication can be made. On RTTY, shift width, tone frequencies and polarization are also selectable.

Noise blanker

To reduce pulse-type noise, a level adjustable noise blanker is built-in. Various levels of pulse-type noise, such as from car ignitions, etc., can be reduced.

Pre-amp. and attenuator

A pre-amplifier and an RF attenuator are adopted for more pleasant reception. Convenient when weak signals or extremely strong signals are received, to present better quality readability.

SQL/RF gain controller

In addition to the squelch control, an RF gain control is available, and the controller is combined with the squelch control.

The RF gain adjusts minimum response receiver gain, and ignores signals weaker than the pre-set level—providing pleasant stand-by, or scanning. The SQL/RF GAIN controller action is selectable from squelch only, RF gain only or combined, in the SET mode according to your operating style and mode.

Other features

Built-in mic. compressor increases average talk power

Complete CW features

Variety of scanning function types

IF shift interference rejection

Built-in antenna tuner control circuit and selectable antenna tuner

Hand microphone is supplied

VOX capability