

Reliable Straight Forward HF Communications



100 W Output Power in a Durable Body

Powerful 100 W output provides the talk power you need to reach distant locations. Its one-piece, die-cast aluminum construction provides stability even at high duty cycles.

Simple Operation with Easy-to-Read LCD

The IC-78 is equipped with a large, easy-to-read LCD screen. A minimum number of buttons and knobs provide direct function access without the need for a secondary key function.

Prompt Operation with Memory Channels

Operating frequencies can be saved as memory channels. Each memory channel can be named with up to eight characters in the name. Additionally, you can enter frequencies directly or use the VFO mode*.

*VFO mode is available, depending on the transceiver version.

Front Mounted Speaker

With the speaker facing to the operator, you can clearly hear received audio during operation. The IC-78 provides more than 2 W audio output. Received voice can be heard in noisy environments.

And more

- Five user selectable IF filter widths
- Microphone Compressor increases average talk power
- VOX capability for hands-free operation
- RIT, Preamp and Attenuator functions
- Noise Blanker function reduces pulse type noise
- IF Shift for interference rejection
- CW mode and RTTY mode operation
- Scan function
- Built-in antenna tuner control circuit
- Data cloning between transceivers



SPECIFICATIONS

GENERAL		
Frequency range	Receiver	0.030 ~ 29.999999 MHz*1
	Transmitter	1.600 ~ 29.999999 MHz*2
*1 Guaranteed range: 0.5 ~ 29.999999 MHz. *2 Not guaranteed for some frequency bands.		
Modes		USB, LSB, CW, RTTY (FSK), AM
Number of memory channels		99 (Duplex) +1 (Call channel)
Frequency stability		Less than ±200 Hz from 1 min. ~ 60 min. after power ON. Less than ±30 Hz/hour at +25°C (+77°F) 1 hour later after power ON. Less than ±350 Hz between 0°C ~ +50°C (+32°F ~ +122°F)
Power supply requirement		13.8 V DC ±15 % (Negative ground)
Current drain (at 13.8 V DC)	Rx Max. audio Stand by	2.0 A 1.3 A
	Tx Max. power	21.0 A
Operating temperature range		−10°C ~ +60°C , +14°F ~ +140°F
Antenna connector		SO-239 (50 Ω)
Dimensions (Projections not included)		240 (W) × 95 (H) × 239 (D) mm, 9.4 (W) × 3.7 (H) × 9.4 (D) in
Weight (Approximate)		3.8 kg, 8.4 lb
TRANSMITTER		
Output power	SSB, CW, RTTY	2 ~ 100 W
	AM	2 ~ 35 W
Spurious emissions		Less than −46 dB below peak output power
Carrier suppression		More than 40 dB
Unwanted sideband		More than 50 dB
Microphone connector		8-pin connector (600 Ω)
RECEIVER		
Sensitivity (10 dB S/N)	SSB, CW, RTTY	0.16 μV (1.600 ~ 29.999999 MHz) (0.5 μV at 12 dB SINAD)
	AM	13 μV (0.5 ~ 1.599999 MHz) 2 μV (1.600 ~ 29.999999 MHz)
Selectivity	SSB, CW, RTTY	More than 2.1 kHz/−6 dB Less than 4.5 kHz/−60 dB
	AM	More than 6.0 kHz/−6 dB Less than 20 kHz/−40 dB
Spurious and image rejection ratio		More than 70 dB (1.600 ~ 29.999999 MHz)
Audio output power (at 13.8 V DC)		More than 2.0 W at 10% distortion with an 8 Ω load
PHONES connector		3-conductor 6.5 (d) mm (1/4")
External speaker connector		2-conductor 3.5 (d) mm (1/8") / 8 Ω

All stated specifications are subject to change without notice or obligation.

Supplied accessories:

- Hand microphone
- DC power cable
- Spare fuses

OPTIONAL ACCESSORIES

DESKTOP MICROPHONES



SM-50
Dynamic microphone. Includes [UP] / [DOWN] switches and low cut function.



SM-30
Compact, lightweight electric microphone.



SM-27
Dynamic microphone with PTT lock switch.

HAND MICROPHONE



HM-219
Same as supplied.

EXTERNAL SPEAKER



SP-41
Front mounted headphone jack.

AUTOMATIC TUNING ANTENNA



AH-740
Covers 2.5 ~ 30 MHz. OPC-2321 is required.

AUTOMATIC ANTENNA TUNER



AT-140
Covers 1.6 ~ 30 MHz with a 7 m (23 ft) or longer wire antenna. AT-130/E is also available.

FOLDED DIPOLE ANTENNA



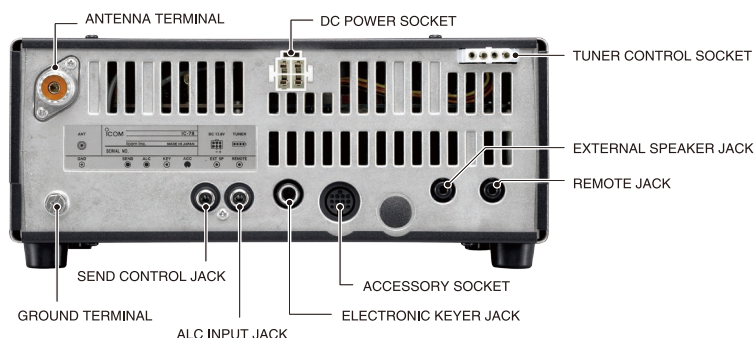
AH-710
Covers 1.9 ~ 30 MHz bands.

OTHER OPTIONS

- **OPC-599** ACC 13 PIN CABLE ADAPTER
- **OPC-2321** CONTROL CABLE FOR AH-740 6 m (19.6 ft)
- **MB-23** CARRYING HANDLE
- **MB-118** MOBILE BRACKET

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

REAR PANEL VIEW



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