

NEW!
ICOM HF Transceiver

IC-735



Ultra Compact

The new ICOM IC-735 is what you've been asking for...the most compact and advanced full-featured HF transceiver with general coverage receiver on the market. Measuring only 3.7 inches high by 9.5 inches wide by 9 inches deep, the IC-735 is well suited for mobile, marine or base station operation.

More Standard Features

Dollar-for-dollar the IC-735 includes more standard features...FM built-in, an HM-12 scanning mic, FM, CW, LSB, USB, AM transmit and receive, 12 tunable memories and lithium memory backup, program scan, memory scan, switchable AGC, automatic SSB selection by band, RF speech processor, 12V operation, continuously adjustable output power up to 100 watts, 100% duty cycle and a deep tunable notch.

Superior Performance

It's a high performer on all the ham bands, and as a general coverage receiver, the IC-735 is exceptional. The IC-735 has a built-in receiver attenuator, preamp and noise blanker to enhance receiver performance. PLUS it has a 105dB dynamic range and a new low-noise phase locked loop for extremely quiet rock-solid reception.

Simplified Front Panel

The large LCD readout and conveniently located controls enable easy operation, even in the mobile environment. Controls which require rare adjustment are placed behind a hatch cover on the front panel of the radio. VOX controls, mic gain and other seldom used controls are kept out of sight, but are immediately accessible.



Options. A new line of accessories is available, including the AT-150 electronic, automatic antenna tuner and the switching PS-55 power supply. The IC-735 is also compatible with most of ICOM's existing line of HF accessories.

See the IC-735 at your authorized ICOM dealer. For superior performance and innovative features at the right price, look at the ultra compact IC-735.

Muir Communications Equipment
737 Goldstream Avenue
VICTORIA, B.C. V9B 2X4
Phone 478-6119



First in Communications

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FEATURES AND SPECIFICATIONS: IC-735

GENERAL

Frequency Coverage

Ham Band	13.9MHz - 14.5MHz
1.8MHz - 2.0MHz	17.9MHz - 18.5MHz
3.4MHz - 4.1MHz	20.9MHz - 21.5MHz
6.9MHz - 7.5MHz	24.40MHz - 25.1MHz
9.9MHz - 10.5MHz	27.9MHz - 30.0MHz

General Coverage (receive only)
0.1MHz - 30.0MHz (continuous)

Frequency Control

Dual VFO CPU based 10Hz step digital PLL synthesizer. Independent transmit/receive frequency available on same band (using split function).

Frequency Readout

6 digit 100Hz LCD

Frequency Stability

Less than ±200Hz after switch on 1 min. to 60 mins., and less than ±30Hz after 1 hour. Less than ±500Hz in the range of 0°C to +50°C.

Power Supply Requirements

DC (3.8V ±15% negative ground current drain 20A max. (at 200W input). External AC power supply is available for AC operation.

Antenna Impedance

50 ohms unbalanced

Dimensions

3.7"(H) x 9.5"(W) x 9"(D)

Weight

11.1 lbs.

TRANSMITTER

RF Power

SSB (A₃J) — 200 watts PEP input
CW (A¹) — 200 watts input
FM (F³) — 200 watts input
AM (A³) — 40 watts output
Adjustable output power

Emission Modes

A₃J (J₃E) — SSB (upper sideband and lower sideband)
A¹ (A³A) — CW
A³ (A³E) — AM
F³ (F³E) — FM

Harmonic Output

More than 40dB below peak power output

Spurious Output

More than 50dB below peak power output

Carrier Suppression

More than 40dB below peak power output

Unwanted Sideband

More than 50dB down at 1000Hz AF input

Microphone

Impedance 600 ohms

Tx Third Order IMD

-38dB

RECEIVER

Receiving Mode

A¹, A₃J (USB, LSB), A³, F³

IF Frequencies

1st: 70.4515MHz (SSB, AM, FM); 70.4506MHz (CW)
2nd: 9.0115MHz (SSB, AM, FM); 9.0106MHz (CW)
3rd: 455KHz

Sensitivity

SSB, CW, 0.1 - 1.6MHz less than 1.0uV for 10dB S/N
1.6 - 30MHz less than 0.15uV for 10dB S/N
AM; 0.1 - 1.6MHz less than 6uV for 10dB S/N
1.6 - 30MHz less than 1uV for 10dB S/N
FM, 1.6 - 30MHz less than 0.3uV for 12dB SINAD

Selectivity

SSB, CW, 2.3KHz at -6dB, 4.0KHz at -60dB
AM, 6.0KHz at -6dB, 18KHz at -50dB
FM, 15KHz at -6dB, 30KHz at -60dB

Spurious Response Rejection Ratio

More than 80dB

Audio Output

More than 3 watts @ 10% distortion with 8 ohm load

Audio Output Impedance

4 to 16 ohms

RIT Variable Range

±800Hz

Dynamic Range

105dB (preamp off)

Options and Accessories:

- IC-PS15 AC Power Supply
- IC-PS30 System Power Supply
- PS-55 Matching AC Power Supply
- IC-SP3 External Speaker
- AT-150 Matching Electronic, Automatic Antenna Tuner
- AT-100 Automatic 100W Antenna Tuner
- AT-500 Automatic 500W Antenna Tuner
- IC-2KL Linear Amplifier
- IC-MB5 Mobile Mounting Bracket
- IC-SM6 Desk Mic - (electret condenser type)
- SM-8 Desk Mic - two cables
- IC-HPI Headphones
- OPC-118 Adapter Cable
- EX-243 Electronic Keyer
- FL-32 500Hz 9MHz CW Filter
- FL-33 250Hz 9MHz CW Filter
- EX-241 Marker
- UT-30 PL Tone Encoder

