

ICOM

Count on us!

Marine SSB.

ICOM proudly introduce the IC-M700 150 watt marine solid state SSB transceiver, approved to MPT 1227. The IC-M700 is above and beyond the competition with ICOM's APC (automatic protection circuit) to protect final transistors, the full featured M700 is built to operate with confidence when others cannot.

A leader in the marine transceiver industry for years ICOM has a proven record of solid state transceiver design and now offers this all-channel, all-mode marine SSB for about half the price of others on the market.

Features include 48 memory channels that can be operated simplex or semi-duplex covering all ship to shore, high seas telephone and ship to ship SSB channels. Independent transmit and receive programming in 100Hz steps provides flexibility.

A quartz locked synthesized tuning system provides superb stability without ever having to purchase expensive crystals or PROMS. Memories are fully programmable from the front panel keypads.

All radio-telephone channels are accessible with the IC-M700. High seas transmission modes J3E (SSB suppressed carrier at least -40dB) and R3E (SSB reduced carrier at least -16dB) are provided for as well as H3E.

A heavy duty speaker provides 5 watts of superior receive audio. The IC-M700 features full transmit and receive coverage of all marine bands up to 23.999MHz, as well as general coverage reception between 1.6 and 23.999MHz.

Other features include a wide range clarifier, audio activated squelch (radio remains silent unless a human voice is detected), noise blanker to eliminate interference from shipboard electrical sources, modern

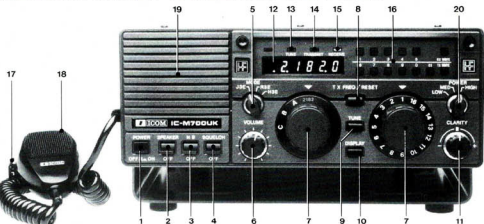
digital readout, noise-cancelling microphone, telephone style handset for privacy (optional) plus a heavy duty mounting bracket.

AT-120 Automatic antenna tuner. ICOM's versatile HF/MF automatic microprocessor-controlled antenna tuner easily matches the IC-M700 to your antenna system. Tune-up time is normally about 3 or 4 seconds by simply pressing the tune button on the M700. The AT-120 has a weatherproof casing and can therefore be installed anywhere on your vessel.

IC-M700/24/12, 24 volt regulator. This unit will enable you to use the IC-M700 transceiver on a 24 volt system. The regulator is rated at 25 amps (20 amps continuous).



ICOM IC-M700-UK Marine SSB transceiver.



Key:

- POWER switch:** Push ON/ Push OFF.
- SPEAKER switch:** Internal speaker ON/OFF. External speaker jack still active.
- NR switch:** Turns noise blanker ON/OFF.
- SQUELCH switch:** Turns audio squelch ON/OFF.
- MODE switch:** Selects one of the three operating modes: J3E (A3J), R3E (A3A), or H3E (A3H).
- VOLUME knob:** Controls the audio output level.
- ABC 2182/1-16 knob:** Channel selection switch. Channels A, B and C have 16 channel capacity each and 48 channels are available totally. Each channel can be used for any mode simplex, semi-duplex or full duplex. 2182 auto select (H3E is also automatically selected).
- TX FREQUENCY switch:** Checks transmit frequency of selected channel.
- TUNE switch:** Activates auto tune mode of external antenna tuner (optional).
- DISPLAY switch:** Turns illuminated display ON/OFF.
- CLARITY knob:** Fine tunes receive frequencies.
- FREQUENCY DISPLAY:** Displays transmit and receive frequencies.
- TUNE LED:** Illuminates when the TUNE switch is pressed and an antenna tuner is connected.
- TRANSMIT LED:** Lights during Transmit. The illumination of the LED increases with power output.

- RECEIVE LED:** When a signal is being received, the LED is lit. The LED is not lit under closed SQUELCH condition.
- TEN KEYS:** Frequencies can be entered onto any of the 48 channels by these keys. A. Select the desired channel - A, B or C, and 1 to 16. B. Enter a receive frequency by the TEN KEY pad (i.e. when 2182.0KHz is being entered). Press these key buttons in order: 2182RX WRITE (if wrong key button is pressed, press CE and enter the frequency from beginning). C. Enter a transmit frequency by the TEN KEY pad (i.e. when 2182.0KHz is being entered). Press these key buttons in order: 2182CTX WRITE (if the frequency is allocated only for receiving). Enter CTX WRITE). D. Press TX FREQUENCY button and confirm transmit frequency. NOTE: If attempt is made to enter other than authorized marine frequencies the FREQUENCY DISPLAY will be blank.
- PTT switch:** This switch on the microphone is for manually switching from receive to transmit and vice versa.
- MICROPHONE:** The voice should be sufficiently loud to light the TRANSMIT LED brightly.
- SPEAKER:** Audio output capability is more than 5 watts.
- RF POWER SELECTOR switch:**

IC-M700 specifications

GENERAL

Frequency Coverage	1.0MHz ~ 23.9999MHz
Receive	2.0MHz ~ 2.9999MHz
Transmit	4.0MHz ~ 4.9999MHz
	6.0MHz ~ 6.9999MHz
	8.0MHz ~ 8.9999MHz
	12.0MHz ~ 13.9999MHz
	18.0MHz ~ 19.9999MHz
	22.0MHz ~ 23.9999MHz
Frequency Control	CPU based 10kHz step Digital PLL synthesizer Independent Transmit/Receive Frequency Programmable on any band.
Frequency Readout	8 digit 10kHz readout.
Frequency Stability	Less than ±0.01% in the range of -30°C ~ +60°C
Memory Channel Capacity	48 Simplex or Semi-duplex Channels (owner Programmable)
Power Supply	DC 13.6V ± 1.5% Negative ground Current drain 25A max.
Requirements	AC power supply available for AC operation.
Current Drain Receiving	Stand by 1.2A
	Max audio output 1.6A
Transmitting	Average 100W 12A
	Two tone 18A
Antenna Impedance	50 ohms Unbalanced.
Weight	7.5kg (16.5lb)
Dimensions	113 (44.1mm) (H) x 287 (287mm) (W) x 136 (53.5mm) (D) () Shows the dimensions including projectors.

TRANSMITTER

Emission Modes	J3E (A3J) USB R3E (A3A) USB H3E (A3H) USB
RF Output Power	350 Watts PEP
Sigmas Emission	-45dB
Carrier Suppression	J3E (A3J) 40dB R3E (A3A) 16dB ± 2dB H3E (A3H) ± 4dB
Unwanted Sideband	-55dB
Microphone	800-ohms with push-to-talk button
Receiving System	Double conversion superheterodyne
Receiving Modes	J3E, H3E, R3E, A3E or FSK 45KHz
Intermediate	10.7MHz
Frequencies	2nd 9.015MHz (J3E)
Sensitivity	9.010MHz (A3E)
	J3E (A3J) 12dB SINAD at -43dBμ (0.5μV) input
	A3E (A3) 12dB SINAD at 30dBμ (1.4μV) input
	J3E (A3J) 2.3KHz SSB at 4.3KHz SSB
	A3E (A3) 4.0KHz SSB at 4.3KHz SSB
Spurious and Image	Rejection
Carrier Range	±10dB
Audio Output	5 watts (4-ohms, 10% distortion)
AF Output Impedance	2-8 ohms

IC-AT120 specifications

Number of Receivers	Two (up to 10 CPUs activated). Double 3P
Frequency Range	2 to 30MHz
Power Capability	100W PEP, 100W continuous
Input Impedance	50 ohms
Turn-up Power	100 W
Turn-up Time	Typically 2 to 3 seconds
Memory Capacity (VDR)	100 channels
Antenna Required	Microstrip type with suitable RF ground (More than 21 feet suggested)
Power Supply Required	13.6V DC (negative ground) 1A maximum (supplied by the IC-M700 or IC-M900P)
Usable Temperature Range	-30°C to +60°C
Dimensions	200mm x 300mm x 80mm
Case Construction	Weather proof
Weight	2.4kg
Control Cable	AWG 14 x 4 conductors

Your ICOM dealer is:

If no dealer is shown here contact

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