# ICOM IC-M700T



An innovator in marine communication technology, ICOM introduces the IC-M700TY... a full-featured HF SSB transceiver with CW and RTTY. The 150 watt PEP output combined with a 100% duty cycle makes the IC-M700TY ideal for the most demanding commercial applications.

CW and RTTY. The

IC-M700TY operates both CW and RTTY. The RTTY mode is formatted to the CCIR system with a center frequency of 1700Hz and utilizes easy-toconnect DIN connectors. The CW mode has full break-in capability and 1kHz sidetone. For superior selectivity, a 500Hz IF filter is installed at no additional charge.

High Stability, A high stability crystal provides superb frequency stability and meets commercial specifications world-

64 Memory Channels. The IC-M700TY can be operated semi-duplex or simplex Independent transmit and receive programming provides flexibility. The 64 memories are fully field programmable from the front panel keyboard.

2182kHz Alarm, The IC-M700TY is equipped with an automatic 2182kHz alarm generator, the international safety signalling system.

All Modes, Radiotelephone modes are accessible with the IC-M700TY including High

Seas transmission modes J3F (SSB suppressed carrier) and H3F

Full Coverage. The reliable IC-M700TY features full transmit and receive coverage of all marine bands 1.600MHz through 23.999MHz as well as general coverage reception of UPI/AP news broadcasts, weather charts and foreign shortwave broadcasts

Easy to Operate. With clearly labeled controls, convenient size and large tuning knobs, the IC-M700TY is simple to operate

More Features. Additional features include a transmit/ receive stand-by switch, a wide range clarifier with center detent, audio-activated squelch noise blanker, digital readout, noise-cancelling microphone, and a heavy duty mounting bracket.

Options. Also available is the optional AT-120 automatic microprocessor-controlled antenna tuner with eight memory channels and quick tune up. and an IC-HS2 telephone handset for privacy.

See the IC-M700TY and other ICOM marine communications products, including the IC-M700 marine SSB transceiver, at your local authorized ICOM marine dealer.

(Specifications on reverse side)

VHF/UHF AMATEUR, MARINE AND BUSINESS USE COMMUNICATION EQUIPMENT



ICOM ICOM INCORPORATED

PHONE: (06)793-5301

# HF TRANSCEIVER

# IC-M700TY

### **SPECIFICATIONS**

GENERAL				
Frequency coverage	Receive : 1.6MHz ~ 23.9999MHz			
	Transmit; 2.0MHz~ 2.9999MHz			
	4.0MHz~ 4.9999MHz			
	6.0MHz∼ 6.9999MHz			
	8.0MHz~ 8.9999MHz			
	/ 12.0MHz~ 13.9999MHz			
	16.0MHz~ 17.9999MHz			
	22.0MHz~ 22.9999MHz			
Frequency control	CPU based 100Hz step digital PLL synthesizer			
	Independent transmit/receive frequency programmable			
	on any band			
Frequency readout	6 digit 100Hz readout			
Frequency stability	Less than ±10Hz in the range −30°C~+60°C			
Memory channel capacity	64 simplex or semi-duplex channels			
	(owner programmable)			
Power supply requirements	DC 13.6V ±15% (negative ground)			
	Current drain 30A max.			
	AC power supply available for AC operation			
Current Drain	Receiving Stand-by ; 1.2A Max audio output ; 1.9A			
	Transmitting Maximum : 30A			
Antenna impedance	50 ohms unbalanced			
Weight	7.3kg (16.1 lb)			

Bracketed values include projections

Emission modes	J3E (A3J) USB, LSB				
	H3E (A3H) AM				
	A1A (A1) CW				
	F1A (F1) FSK				
RF output power	150W				
Spurious emissions	65dB below peak power output				
Carrier suppression	50dB				
Unwanted sideband	-55dB with 1000Hz AF input				
Microphone	600 ohm, noise cancelling microphone with				
	Push-To-Talk switch				
RECEIVER					
Receive system	Double conversion superheterodyne				
Receive modes	.(3F (A3.1) LISB LSB				

-55dB with 1000Hz AF input				
600 ohm, noise cancelling microphone with Push-To-Talk switch				
Double conversion superheterodyne				
J3E (A3J) USB, LSB A3E(A3) AM A1A(A1) CW F1A(F1) FSK				
1st 2nd SSB, CW, FSK 70.4515MHz 9011.5kHz AM 70.4500MHz 9010.0kHz				
SSB, CW, FSK 0.5 <sub>p</sub> V for 12dB SINAD AM 2.0 <sub>p</sub> V for 12dB SINAD				
SSB 2.3kHz/-6dB, 4.2kHz/-60dB AM 6.0kHz/-6dB, 20.0kHz/-60dB CW, FSK * 0.5kHz/-6dB, 1.6kHz/-60dB				
70dB				
±150Hz				
5W into 4 ohms with 10% distortion				
2~8 ohms				
	500 chm , roles cancelling microphone with			

### FRONT PANEL



- 1) POWER: Push ON/Push OFF.
- 2) T/R (TRANSMIT/RECEIVE)

\*B

- NB: Turns noise blanker ON/OFF. 4) SQUELCH:
- rurns audio squelch ON/OFF. MODE:
- MODE: Selects one of the four operating modes: J3E, H3E/A3E, A1A or F1A.
- VOLUME:
- the audio output level. 7) A.R.C.D:
- A, B, C, D: Channel selection switch. Channels A, B, C and D have 16 channel capacity each, and 64 chan-nate are available totally. Each channel can be used for simplex, semi-duplex or Rx only operation
- Checks transmit frequency of selected channel
- Activates auto tune mode of external tuner (op-
- 10) DISDI AV ns illuminated display ON/OFF.
- 11) CHANNEL:
- 12) CLARITY:
- 13) INTERNAL SPEAKER

- ALARM: Activates emergency two-tone alarm and au-tomatically goes to 2182.0kHz. 15) FREQUENCY DISPLAY: Displays both Rx and Tx frequency for easier

- When alarm is activated LED illuminates.
- TUNE LED:
  White coupler is tuning LED illuminates if antenna coupler cannot find a match it will stay illuminated.
- 18) TRANSMIT LED: Lights during transmit. The illumination of the LED increases with power output.
- 19) RECEIVE LED: When a signal is being received, the LED is it. The LED is not it under closed SQUELCH condition.
- TEN KEYS.
- Frequencies can be entered into any of the 64 channels by these keys.

  A. Select the desired channel A, B, C or D and 1 to 16. D 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:2182.0 RX WRITE (if wrong key button is pressed, press CE and enter the frequency from begin-
- To C. Enter a transmit frequency by the TEN KEY pad (i.e. when 2182.0kHz is being entered). Press these key buttons in order:2182.0 TX WRITE (if the frequency is allocated only for receiving\_enter 0 TX WRITE).

  D. Press TX FREQUENCY button and con-
- from transmit frequency.

  NOTE: If attempt is made to enter other than authorized marine frequencies the FRE-QUENCY DISPLAY will be blank.

# **ICOM**

### ICOM INCORPORATED 6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan Phone: (06)793-5301

ax (06)793-0013 Telex 05277822 ICOMTR J ICOM AMERICA, INC.

x (206)454-1509 lex :230-152210 ICOM AMER BVUE 3150 Premier Drive, Suite 126, Irving, TX 75063 ving, TX 75063 hone (214)550-7525 ax (214)550-7423 777 Phoenix Parkway, Suite 201, tlanta, GA 30349 hone: (404)991-6166 ax (404)991-6327

## ICOM CANADA

ICOM (EUROPE) GmbH Himmelgeister Strasse 100, 4000 Dusseldorf 1, West Germany Phone: 0211-346047 Fax: 0211-333639 Telex: 41-8588082 ICOM D

ICOM AUSTRALIA, PTY., LTD.

# ICOM FRANCE S.A. BP-4063, 120 Route de R 31029 Toulouse CEDEX, France

France Phone: 61.20.31.49 Fax: 61.34.05.91 Telex: 521515 ICOMFRA ICOM (UK) LIMITED Unit 9, Sea Street, Herne Bay, Kent, CT6 8LD England, U.K.

Your local agent/	uealer.		