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## Archive: IC-M126DSC - VHF Mounted Marine Transceiver

### Features

Reliable emergency communications.

#### DSC class C and optional SC-101 capabilities

The IC-M126DSC employs the latest in marine communications technology...DSC (**digital selective calling**). Class C digital selective calling allows you to transmit a distress call on channel 70, and when connected to a navigation receiver\*, positioning data is sent at the same time. Also, an **"all ships call"** function allows you to quickly and easily contact nearby ships for less urgent communications. Moreover, when an optional UX -112 is installed, the DSC capabilities are enhanced to meet U.S. Coast Guard SC -101 specifications. (\*NMEA0183 navigation equipment is required).

#### Durable water resistant body

The IC-M126DSC uses high quality rubber gaskets for all switches, controls and connectors providing water resistance you can count on in severe marine environments.

#### Sensor distress call

By connecting various sensors to the IC-M126DSC (eg. for fire, water intrusion, etc.), you can be automatically alerted to abnormal or dangerous conditions. When a sensor is triggered, an alert beep sounds after 25 seconds, if no controls or switches are activated, a DSC distress call is automatically sent on channel 70.

#### Automatic fog horn function

The IC-M126DSC includes an automatic fog horn function. Once the function is turned ON, the selected fog horn pattern automatically sounds in 100 sec. intervals until the function is turned OFF; even while operating other transceiver functions. Select one of 4 fog horn patterns depending on the requirements for the situation. In addition, the fog horn audio frequency can be selected from 200 to 850 Hz as desired.

#### Other attractive features

- \* All international and USA VHF marine channels plus 10 weather channels are available
- \* Optional voice scrambler function for communication privacy)
- \* Weather alert function
- \* Priority and normal scans can be selected to suit your preference
- \* Dual/tri-watch function between channel 16 and an operating channel or between channel 16, the call channel and an operating channel
- \* 2-way hailer function. With an optional UA -1 AUDIO AMPLIFIER, your voice can be amplified with 30 W
- \* Intercom function to communicate with a person remote from the transceiver. Intercom speakers can be placed in up to 2 locations
- \* Antenna mismatching indicator warns of abnormal antenna condition
- \* Low voltage indicator warns of a low battery voltage condition
- \* 4 levels of LCD backlighting brightness
- \* 3 levels of LCD contrast

### Detailed Specifications

## IC-M126DSC

### Quick Specs:

VHF mounted marine transceiver

RX/TX: all USA and international marine channels

RX only: 10 weather channels

Output power: 25 W

Modes: FM

Receiver sensitivity:  $\mu$ V (FM, 12 dB SINA

DSC capable (option

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## GENERAL

- | Frequency Coverage: Transmit 156.025-157.425 MHz, Receive 156.025-163.275 MHz
- | Mode: 16K0G3E, 16K0G2B
- | Number of Memory Channels: 24 + 1 call channel
- | Power Supply Requirement: 13.8 V DC +/-15%
- | Current Drain (at 13.8 V DC): Transmit, high power 6.3 A, low power 1.7 A; Receive, standby 400 mA, max. audio output 1.5 A
- | Frequency Stability: +/-0.0005%
- | Usable Temperature Range: -20°C to +60°C; -4°F to +140°F
- | Dimensions: 228(W) x 78(H) x 192(D) mm; 9.0(W) x 3.1(H) x 7.6 (D) in (projections not included)
- | Weight: 2.4 kg; 5.3 lb.

## TRANSMITTER

- | Output Power: High 25 W, Low 1 W
- | Modulation System: Variable Reactance Phase Modulation
- | Max. Frequency Deviation: +/- 5 kHz
- | Spurious Emissions: Less than -70 dB
- | Microphone Impedance: 600 ohms

## RECEIVER

- | Receive System: Double-conversion superheterodyne
- | Intermediate Frequencies: 1st 21.8 MHz, 2nd 455 kHz
- | Sensitivity: 0.3 µV for 12 dB SINAD
- | Squelch Sensitivity: 0.3 µV at threshold
- | Adjacent Channel Selectivity: -70 dB
- | Spurious Response Rejection: -70 dB
- | Intermodulation Rejection: -70 dB
- | Audio Output Power: 5 W with a 4 ohms load (10 W for the hailer function)
- | Audio Output Impedance: 4 ohms

## IC-M126DSC Options

- | **IC-HS2** HANDSET KIT (black): Provide good audibility and listening privacy.
- | **IC-HS3** HANDSET KIT (white): Provide good audibility and listening privacy.
- | **PS-66** DC-DC CONVERTER: Enables use of a 24 V boat battery. Input voltage: 19 to 32 V DC. Output voltage: 13.6 V DC.
- | **MB-33** FLUSH MOUNT: For mounting the IC-M126DSC to a panel. Available in white and black.
- | **UA-1** AUDIO AMPLIFIER: Boosts hailer output to 30 W. Can be used separately as a paging amplifier.
- | **UT-74** VOICE SCRAMBLER UNIT: Provides 128 analog voice scramble codes for private communications.
- | **UX-95** RELAY INTERFACE UNIT: Remotely controls the UA-1 power switch.
- | **UX-110** VOICE SCRAMBLER INTERFACE BOARD: Employs an SC - 20-450 voice scrambler unit for digital voice scrambling.
- | **UX-112** DSC DECODER UNIT: Enhances the IC-M126DSC's DSC capability and provides reception of DSC signals.

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