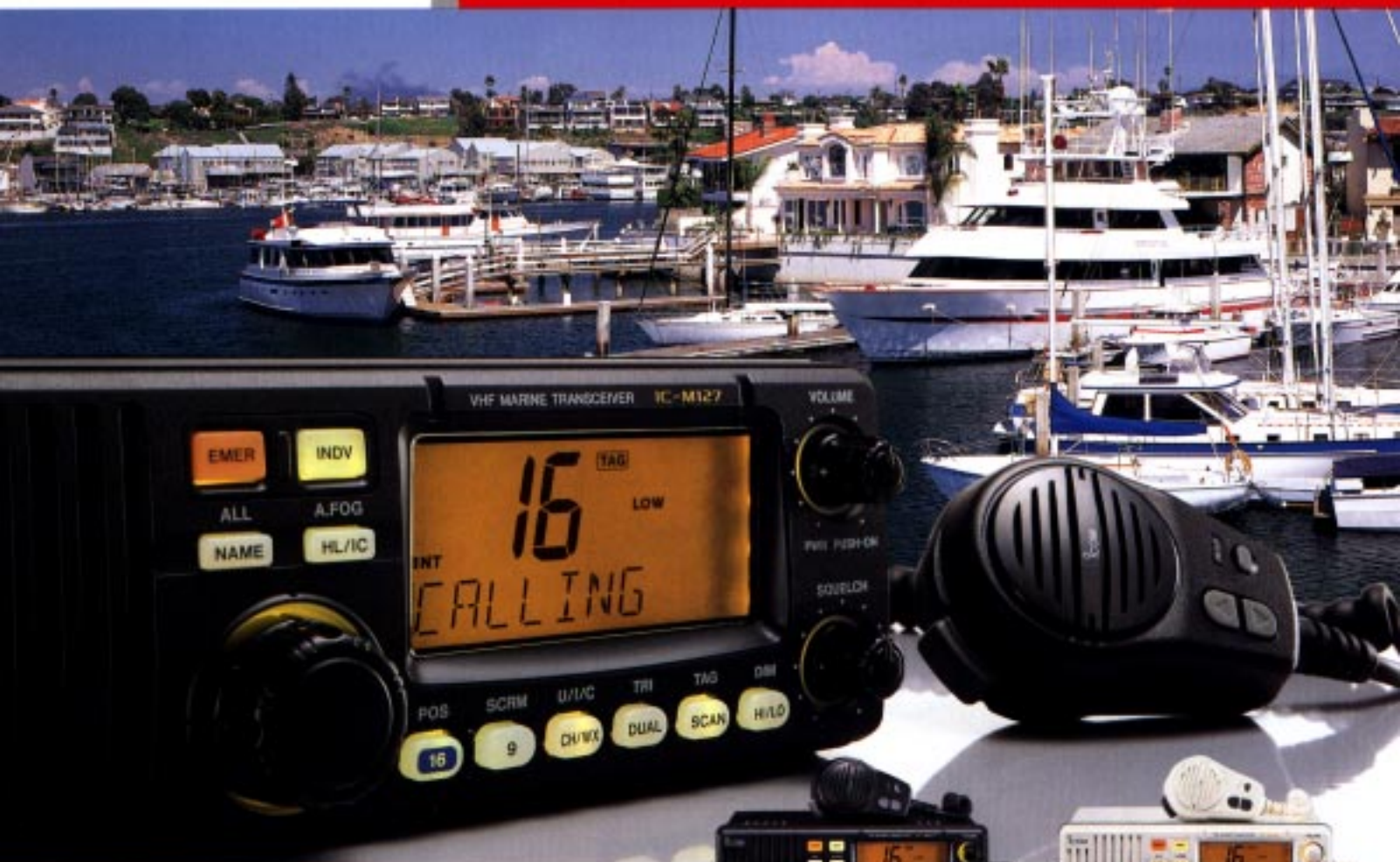




VHF MARINE TRANSCEIVER

# IC-M127



## **Rugged, reliable communications**

### **Large, easy-to-read LCD with alphanumeric labels**

The IC-M127 features a large display that shows operating status at a glance. Easy-to-read—even under direct sunlight. Alphanumeric labels of up to 10 characters show channel names for easy recognition as well as NMEA data\* (latitude and longitude), DSC categories, and more. Alphanumeric labels are displayed simultaneously with the operating channel.

\*When a GPS receiver is connected.

### **'Smart' microphone**

The microphone allows you to access a number of functions directly. You can conveniently control channel up/down as well as output power directly from the microphone.

### **Durable, water-resistant construction**

Built tough to withstand the punishing marine environment, the IC-M127 is constructed with high quality rubber gaskets for all switches, controls and connectors, including the microphone—providing water resistance you can count on.

### **Optional DSC capabilities**

Prepare now for the future of marine VHF. When an optional UX-130 DSC UNIT is installed, the IC-M127 has DSC capabilities that meet either the U.S. Coast Guard's SC-101 proposal or the GMDSS class F requirements. In the near future, if you want to expand the communications capability of your transceiver, the IC-M127 can be upgraded by installing the UX-130. Preserve your investment, with technology designed for the future.

### **And more...**

- Easy-to-use "Tag" scan system allows you to add/delete channels in the scan list quickly and easily with the push of a button
- 2-way hailer function with 10 W amplifier built-in. An optional UA-4 AUDIO AMPLIFIER gives you a maximum of 30 W output.
- Auto fog horn function with 4 selectable patterns
- Intercom function—up to 2 remote speakers
- Antenna-mismatching and low voltage indicators

**Icom Inc.**

- LCD, keypad and knobs are backlit and can be adjusted to 8 different lighting levels
- Dual/tri-watch functions between channel 16
- Weather alert function
- Optional UT-98 voice scrambler unit with 128 front panel programmable codes for communications privacy
- All International, USA and Canadian\* VHF marine channels plus 10 weather\* channels are available (\*USA version only)
- RF attenuator linked to the squelch control—switch the attenuator off for high seas operation; on for harbor operation
- PC programming software is available
- Superior receive characteristics

## SPECIFICATIONS

### GENERAL

- Frequency range: Tx 156.025–157.425 MHz  
Rx 156.025–163.275 MHz
- Usable channels:  
All International, U.S.A and Canadian channels: plus 10 weather channels (depending on version)
- Mode: FM (16K0G3E)  
DSC (16K0G2B; with optional UX-130)
- Power supply requirement:  
13.8 V DC  $\pm$ 15% (negative ground)
- Current drain (at 13.8 V DC):  
Tx high 6.3 A  
low 2.0 A  
Rx max. audio 1.5 A  
standby 0.5 A
- Usable temperature range:  
-20°C to +60°C (-4°F to +140°F)

- Frequency stability:  $\pm$ 5 ppm
- Antenna connector: SO-239 (50  $\Omega$ )
- Dimensions: 229(W)  $\times$  78(H)  $\times$  220(D) mm (proj. not included)  
9.0(W)  $\times$  3.1(H)  $\times$  8.7(D) in
- Weight: 2.5 kg (5.5 lb)

### TRANSMITTER

- Output power: High 25 W  
(at 13.8 V DC) Low 1 W
- Modulation system: Variable reactance phase modulation
- Spurious emissions: -70 dB
- Max. freq. deviation:  $\pm$ 5.0 kHz
- Microphone impedance: 600  $\Omega$

### RECEIVER

- Receive system:  
Double conversion superheterodyne
- Intermediate frequencies:  
1st 21.8 MHz 2nd 455 kHz
- Sensitivity (for 12 dB SINAD): 0.25  $\mu$ V typ.  
1.0  $\mu$ V (tight)
- Squelch sensitivity: 0.32  $\mu$ V (threshold)  
1.0  $\mu$ V (tight)
- Adjacent channel selectivity: 75 dB
- Spurious response rejection ratio: 75 dB
- Intermodulation rejection ratio: 75 dB
- Audio output power:  
More than 5 W at 10% distortion with a 4  $\Omega$  load (10 W for the hailer function)
- Audio output impedance: 4  $\Omega$

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

## OPTIONS

- **MB-66 FLUSH MOUNT**  
For mounting the IC-M127 to a panel. Available in black or white.
- **OPC-457 NMEA CABLE**  
Allows you to connect NMEA equipment such as a GPS receiver.
- **PS-60 DC POWER SUPPLY**  
For coastal station operation.  
Output voltage: 13.6 V DC  
Max. current drain: 30 A
- **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
- **UA-4 AUDIO AMPLIFIER**  
Boosts hailer output to a max. of 30 W. Power is controlled via the IC-M127.
- **UT-98 VOICE SCRAMBLER UNIT**  
Provides 128 analog voice scramble codes for communications privacy.
- **UX-130 DSC UNIT**  
Provides DSC capabilities.



UA-4



PS-66



MB-66



UT-98

UX-130

Icom Inc. 6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan Phone: 06 793 5302 Fax: 06 793 0013

Count on us!

### Icom America Inc.

<Corporate Headquarters>  
2390 118th Avenue N.E., Bellevue, WA 98004, U.S.A.  
Phone: (425) 454-6155 Fax: (425) 454-1509  
Telex: 152210 ICOM AMER BVUE

<Customer Service>  
Phone: (425) 454-7619

### Icom Canada

A Division of Icom America Inc.  
3075 45 Road, Unit 9, Richmond, B.C., V6X 2T4, Canada  
Phone: (604) 273-7400 Fax: (604) 273-1900

### Icom (Australia) Pty. Ltd.

A.C.N. 006 092 575  
290-294 Albert Street, Brunswick, Victoria, 3056, Australia  
Phone: 03 9387 0666 Fax: 03 9387 0022

### Icom (Europe) GmbH

Communication Equipment  
Himmelsgasse Str. 105, D-40225 Düsseldorf, Germany  
Phone: 0211 349947 Fax: 0211 333639

### Icom Telecomunicaciones S.L.

"Edificio Can Castanyer" Crta. Gracia a Manresa km. 14,750  
08190 Sant Cugat Del Valles Barcelona, SPAIN  
Phone: 131 589 46 82 Fax: 131 589 04 48

### Icom (UK) Ltd.

Unit 9, Sea St., Hems Bay, Kent, CT6 8LD, U.K.  
Phone: 01227 741741 Fax: 01227 741742  
Telex: 317210 BUREAU G

### Icom France S.a

Zac de la Plaine, Rue Bréjeon des Moulins  
BP 5804, 31505 Toulouse Cedex, France  
Phone: 561 36 03 03 Fax: 561 36 03 00  
Telex: 521515 ICOM FRA

Your local distributor/dealer: