

ICOM

VHF TRANSCEIVER

IC-F30LT

(Marine version)

Intrinsically safe VHF MARINE transceiver

The IC-F30LT is Icom's first VHF marine transceiver designed to meet intrinsically safe specifications. It can be used in many hazardous marine environments such as petroleum tankers and bulk cargo carriers. It also meets requirements for use on off-shore oil rigs. Perfect for applications where there are Marine and Commercial frequencies being used: such as aboard tug boats.

Marine and commercial type accepted

The IC-F30LT is not only a marine transceiver, it is also a land mobile (commercial) transceiver. Simply pushing a switch toggles between the two operating bands. Independent control systems, a rotary knob for commercial channels and a keypad for marine channels, distinguish operations for marine and LMR.

Convenient operation

Up to 83 marine channels, including weather, are preprogrammed for direct entry using the keypad. Icom's "tag" scanning system allows quick and easy modification of the scan list. Commercial channels can be programmed for both conventional wide and the new narrow channel spacing. Channel spacing is programmable by channel for convenience during transition to new frequency spacing. In addition, up to 8-character alphanumeric channel names can be programmed into the commercial channels.

Rugged, dependable construction

A polycarbonate case over a one-piece die-cast aluminum frame and a durable screw-base antenna ensure reliability under demanding commercial operating conditions. The 1400 mAh battery has the largest capacity in this class of radio and ensures operation for a full eight hour shift.

Up to 7 dealer programmable switches/keys

(3 for marine operation)

- | | | |
|----------------|------------------|--------------------|
| • Marine/Land | • Talk around | • Memory channel |
| • Wide/narrow | • Scan | • DTMF autodial |
| • Priority A/B | • Re-dial | • Monitor |
| • Emergency | • Transmit power | • Call and more... |

Additional features

- Instant channel 16/9 (programmable call channel) access
- Dual watch/tri-watch
- Maintenance free EEPROM for memory backup
- CTCSS and DTCS signaling are standard
- Backlighting for the LCD and keypad
- Meets Mil Spec 810 C and D

Icom Inc.



SPECIFICATIONS

GENERAL

- Frequency coverage:

Marine Tx	156.025-157.425 MHz
Rx	156.025-163.275 MHz
LMR Tx/Rx	146-174 MHz
- Type of emission: 16K0F3E (wide)
8K50F3E (narrow)
- Number of channels: Up to 83 [Marine]
Up to 16 [LMR]
- Power supply requirement: 7.5 V DC (or supplied battery pack; negative ground)
 ± 5 ppm ($\pm 0.0005\%$)
- Frequency stability: ± 5 ppm ($\pm 0.0005\%$)
- Channel spacing: 25, 30 or 12.5 kHz
- Usable temperature range: -30°C to $+60^{\circ}\text{C}$
 -22°F to $+140^{\circ}\text{F}$
- Current drain: Receive standby 65 mA
max. audio 450 mA
Transmit at 5 W 2.5 A
- Dimensions (projections not included; mm/in):
60(W) \times 140(H) \times 42(D)
2 $\frac{3}{8}$ (W) \times 5 $\frac{1}{2}$ (H) \times 1 $\frac{7}{8}$ (D)
- Weight: 520 g (1.1 lb)

TRANSMITTER

- Output power: 5 W/1 W
- Modulation system: Variable reactance frequency modulation
 ± 5.0 kHz (wide)
 ± 2.5 kHz (narrow)
- Max. deviation: 70 dB
40 dB (wide)
34 dB (narrow)
- Spurious emissions: 70 dB
- FM hum and noise: 40 dB (wide)
34 dB (narrow)

RECEIVER

- Receive system: Double conversion superheterodyne
- Intermediate frequencies: 1st 45.15 MHz
2nd 455 kHz
- Sensitivity: 0.35 μV for 12 dB SINAD
- Squelch sensitivity: 0.35 μV (at threshold)
- Adj. channel selectivity: 70 dB (wide)
60 dB (narrow)
- Spurious response: 70 dB
- Intermodulation rejection: 70 dB

- Audio output power: 500 mW at 10% distortion with an 8 Ω load (at 7.5 V)

INTRINSICALLY SAFE TYPE APPROVAL



This transceiver conforms to intrinsically safe ratings of the FMRC (Factory Mutual Research Corporation). Ask your Icom Dealer for details.

Intrinsically safe: Class I, II, III, Division 1, Groups C, D, E, F, G
Nonincendive: Class I, Division 2, Groups A, B, C, D
Connected battery pack: CM-141

Supplied accessories:

- Antenna (FA-SC54V-1) ○ Battery pack (CM-141)
- Belt clip (MB-56)

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

OPTIONS

- **BC-119 DESKTOP CHARGER + AD-67 DESKTOP CHARGE ADAPTER**
For rapid charging a battery pack. An AC adapter is supplied with the charger. Charging time: 2 hrs. (included with the USA version)
- **BC-121 MULTI-CHARGER + AD-67 DESKTOP CHARGE ADAPTER**
For charging up to 6 batteries simultaneously. An AC adapter may be supplied depending on version. Six AD-67's are necessary. Charging time: 2 hrs.
- **CM-141 Ni-Cd BATTERY PACK**
7.2 V/1400 mAh. Same as supplied. Intrinsically safe battery.
- **CM-140/CM-142 Ni-Cd/Ni-MH BATTERY PACK**
7.2 V/1400 mAh (CM-140), 7.2 V/1600 mAh (CM-142). Not approved for intrinsically safe operation.
- **EM-81 SPEAKER-MICROPHONE**
Provides convenient, hands-free operation.
- **MB-56 BELT CLIP**
Allows you to attach the transceiver to your belt for convenient portability. Same as supplied.
- **UT-80 2-TONE UNIT**
Provides 2-tone decode capability.
- **UT-100 MAN DOWN UNIT**
Provides a measure of safety when working in hazardous environments, etc., automatically sending an emergency signal when the transceiver is left in the horizontal position for a pre-set time.

BC-121 + AD-67 (6 pcs)



BC-119 + AD-67



EM-81



UT-80



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