

Mode 3

Cellular (LTE) + Marine Mode

Cellular and Marine modes can be used simultaneously (simultaneous reception is possible and audio is MIXED). PTT buttons for Main and Sub-mode make it possible to select the communication mode assigned to each with one touch. The communication mode can be selected quickly without having to switch modes. Simultaneous transmission on both channels is possible by pressing the PTT buttons for the Main and Sub-mode at the same time.

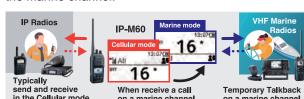


Four Sub-modes — Automatically Select Transmission Mode

Cellular + Marine Mode offers four sub-modes: "Cellular Main", "Marine Main", "Adaptive PTT with Cellular Main", and "Adaptive PTT with Marine Main". Below are examples of "Cellular Main" and "Adaptive PTT with Cellular Main" modes. The same settings can be swapped between Marine and LTE modes.

Cellular Main Mode

In the Cellular Main mode, the IP-M60 typically stands by in Cellular mode and initiates calls to cellular groups on pushing the Main PTT button. However, if a call is received on a marine channel, the radio temporary switches to the Marine mode to respond on



Adaptive PTT with Cellular Main Mode

In this mode, the radio remains in the Cellular mode by default and initiates calls to cellular groups when the Main PTT button is pressed. As the operator moves to preprogrammed marine area (GPS point), the radio automatically shifts to the Marine mode and transmits on



Mode 4

Relay Mode — Transfers Received Audio to Another Mode

The Relay Mode transfers received marine audio to the IP radio group, vice versa. When the IP-M60 is used in the Relay Mode, no received voice is heard from the speaker. * The Relay function may be prohibited in



HYBRID IP TRANSCEIVER (LTE + VHF MARINE)

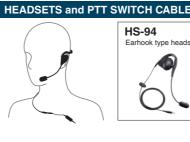
IP-M60

OPTIONAL ACCESSORIES

SPEAKER MICROPHONES and EARPHONES

HM-238MC























BELT CLIPS and HANGERS MB-133 Belt clip (Same as supplied)

03	Type		Li-ion, 7.2 V	
	Capacity		3350 mAh (typ.) 3200 mAh (min.)	
	Operating	Cellular	Up to 24 hours	
	Time*	Marine	Up to 13 hours (5 W	
	- TX : RX : st - Bluetooth a The operatin - The operati		e OFF shorter, depending on: such as Bluetooth, GP	

MB-136 Belt clip (Swivel type) MB-96N Belt hanger (Swivel type)

MB-96F Belt hanger (Fixed type) MB-96FL Belt hanger (Long type)

FA-S59V 150~174 MHz

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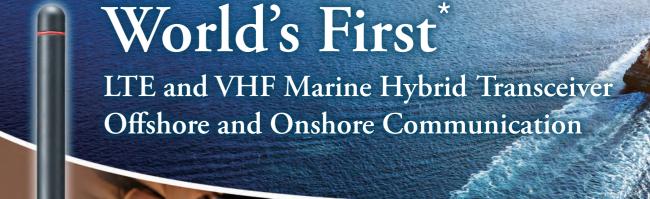
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IP-M60

HYBRID IP TRANSCEIVER (LTE + VHF MARINE)



VHF Marine











LTE and VHF Marine Hybrid Transceiver

Supports Communication at Sea and on Land

The IP-M60 is the world's first hybrid IP transceiver. Combining two modes in one, VHF marine and LTE communications. VHF marine transceiver, which is commonly used worldwide as a means of maritime safety, and a land-based LTE transceiver that can be used to make calls over any distance within a cellular (LTE) coverage area*. The IP-M60 can be used offshore, in ports, rivers, and canals where maritime and business communications are required. It can be used in situations such as rescue boats that need to coordinate with search and rescue agencies, as well as in the operation of yacht racing events.

* According to Icom research as of February 2024

Four Operating Modes

Mode 1

Cellular (LTE) Mode

Talk Listen

In Cellular mode, communication is through the carrier's LTE (or 3G). Calls can be made anywhere within the carrier's coverage area. In addition, Simultaneous TalkListen™ provides full-duplex communication in Cellular mode allowing users to talk and listen at the same time like a telephone conversation.

Mode 2

Marine Mode

This mode works as a VHF marine radio that has the same functions and performance as conventional VHF marine radios, such as Icom IC-M25 or IC-M25EURO. VHF Marine is used to ensure the safety of marine traffic between vessels or vessel-to-coast stations.

HYBRID IP TRANSCEIVER (LTE + VHF MARINE)

IP-M60





Bluetooth® Technology Enables Wireless Operation

The IP-M60 is tested to U.S. Military standard environmental

tests and dust-tight and waterproof rating of IP67*. It can be

The built-in Bluetooth® unit provides a wireless connection between the IP-M60 and an optional Bluetooth® headset. It also has a VOX function that enables automatic voice transmission in response to your voice, allowing hands-free operation.

used with peace of mind on decks

exposed to rain or splashing

as during ship repairs.

water, or in dusty conditions such

* 1 metre (3 feet) under water for 30 minutes.

MIL-STD-810 and IP67 Specifications



1500 mW Speaker Output, Provide Clear Loud Audio

Icom's custom high-power capacity speaker delivers a loud 1500 mW audio output with advanced acoustic sound clarity for noisy environments.



AquaQuake™ Draining Functions

Icom's unique AquaQuake™ function emits a buzzing sound, shedding water from the speaker grill. The IP-M60 provides clear sound even if it gets wet from rain or waves.



Other Features

- Noise Canceling function reduces background noise from transmitting voice
- The Automatic Firmware Update and Provisioning function works through an LTE connection



Marine Mode Functions

Dedicated Channel 16 Button

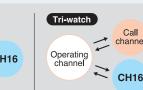
Channel 16 is the international Distress, Emergency and Calling channel. Push the Channel 16 button to monitor the channel.



Dualwatch and Tri-Watch Functions

For example, it is convenient for use in a yacht race, when race announcements are made on a designated channel, while you are monitoring

Channel 16 and using other channel.



- Favorite channel scan, Priority channel scan and Auto Scan Start functions
- Weather channel receiver with a Weather Alert function* * Depending on the transceiver version.

Cellular (LTE) Mode Functions

Emergency Call Functions*

Simply by pushing the Emergency button, an emergency call can be made with an audible warning to a pre-defined destination. In addition to pressing the Emergency button, the Emergency call can be triggered by the Man Down, Lone Worker, and Motion/Stationary functions. * Emergency call functions work in the Cellular mode.



Status Function Posts the Current Status

Current Status information such as "Break", "Working" and "Meeting" can be posted and referenced from other radios. In addition, predefined short message (up to 32 characters) can be sent to the talkgroup.



Status example

Vibration Alert Function Notifies You of an Incoming Call

The Vibration Alert function notifies the user that a call or text message is received with a strong vibration. This function can be configured for individual calls, group calls, all calls, or only when receiving text data, depending on how it is used.

Last Four Minutes Recording*

The IP-M60 has a recording and playback function, so that if you miss something, you can listen to it again immediately. *Maximum recording: 4 minutes or 10 recording

Other Features

- Priority call with high priority authority
- Dual SIM capability to install two SIM cards at the same time
- One Touch PTT function keeps transmitting while you are talking
- Address book for storing talkgroup IDs

SPECIFICATIONS

GENERAL		USA	EUR	AUS	
Audio output power	Internal SP		1500 mW typical		
(8 Ω load, 10% distortion)	External SP	1000 mW typical, 1500 mW typical (HM-222H)			
Operating temperature range		–20 °C to +60 °C, –4 °F to +140 °F	−15 °C to +55 °C	−10 °C to +55 °C	
Power supply voltage		7.4 V DC nominal			
Antenna impedance		50 Ω			
Current drain	Receive	Max. audio (INT SP) 520 mA, Stand-by 300 mA			
(approximate)	Transmit	(-)			
Dimensions (Projection	ns not included)	121.7 (H) × 53.7 (W) >	< 36.6 (D) mm, 4.8 × 2.1 >	< 1.4 in (with BP-303)	
Weight (approximate)		320 g, 11.3 oz (with BP-303)			
Bluetooth® technology		Version: 5.3, Output: Class 1, Protocol: HFP, HSP			
LTE (4G) / W-CDMA (3	BG)				
	LTE (4G)	B2, B4, B12	B1, B3, B7, B8, B20	B1, B3, B5, B7, B8, B28	
Network	W-CDMA	B2, B5	B1, B8	B1, B5	
Rated output power			0.25 W		
Receiver sensitivity (QPSK)		Less than –95 dBm at 5% BLER			
Compatibility		IP501H, IP503H, IP501M, IP500APP, IP730D, IP740D, VE-PG4			
VHF Marine					
GENERAL					
	TX	156.025 ~ 157.425 MHz	156.000 ~ 161.450 MHz	156.025 ~ 157.425 MHz	
Frequency range	RX		156.000 ~ 163.425 MHz		
Usable ch	annel groups	INT, USA, CAN, WX	INT, ATIS*, USA*	INT, USA, WX	
	e of emission	16K0G3E (FM)	16K0G3E (FM)	16K0G3E (FM)	
TRANSMITTER					
Rated output power		5 W, 1 W (Hi, Low)			
Maximum frequency deviation			±5 kHz		
Frequency stability		±10 ppm	±1.5 kHz	±10 ppm	
Spurious emissions		-68 dBc typ.	Less than 0.25 μW	0.25 μW typ.	
Adjacent of	channel power	More than 70 dB			
Audio harmonic distortion		Less than 10% (at 60% devitation)			
Residual modulation		More than 40 dB			
RECEIVER					
Sensitivity		–12 dBμ (0.25 μV) typ. (at 12dB SINAD)	–3 dBµ emf typ. (at 20 dB SINAD)	−3 dBµ emf typ. (at 20 dB SINAD)	
Squelch sensitivity(threshold)		-12 dBμ (0.25 μV) typ.	−3 dBµ emf typ.	–3 dBμ emf typ.	
Adjacent channel selectivity		70 dB typ.	More than 70 dB	More than 65 dB	
Spurious response		70 dB typ.	More than 70 dB	More than 65 dB	
Intermodulation		70 dB tvp.	More than 68 dB	More than 65 dB	

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810G		
Standard	Method	Procedure	
Low Pressure	500.5	I, II	
High Temperature	501.5	I, II	
Low Temperature	502.5	I, II	
Temperature Shock	503.5	I-C	
Solar Radiation	505.5	I	
Rain Blowing/Drip	506.5	I, III	
Humidity	507.5	II	
Salt Fog	509.5	_	
Dust Blowing	510.5	I	
Immersion	512.5	I	
Vibration	514.6	I	
Shock	516.6	I, IV	

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

ess Protection Standard

Supplied Accessories:

MB-133 Belt clip







More than 40 dB nents of the VHF marine specifications are in according with TIA/EIA-603 for USA, EN301-178 for EUR nts of LTE/3G specifications are in according with 3GPP TS-36. Mea and AS/NZS 4415.2-2003 for AUS version. All stated specifications are subject to change without notice or obligation. * Depending on the version