

 ICOM

VHF MARINE TRANSCEIVER
IC-M35



"Automatic Volume Adjustment"

"Noise Cancelling Mic"

"Loud, Instant Maximum Audio"

"Motor boats"
"Engine noise"
"Personal watercraft"
"Forklifts and wharf"
"Large cargo vessels and tug boats"
"Wharf Crane"
"Landing and unloading"
"Gusts of waves"
"Roar of waves"
"Engine noise"
"Personal watercraft"

CLEAR VOICE BOOST

(Clear Voice + Voice Boost)

In marine environments there are many sources of noise that can affect the quality of your communication, such as engine noise, roar of waves and more. The IC-M35 constantly transmits clear voice and provides boosted audio even in those circumstances and ensures your conversation is sent and received as clearly as possible no matter how noisy the background is!

And yes, it floats too!

Continuing the legacy from the IC-M33, the IC-M35 floats for you to be able to retrieve it if you should ever lose it overboard. The IC-M35 floats even when the optional speaker microphone, HM-165 is attached.



BUOYANT

Waterproof
1m depth for 30 minutes

Rugged
MIL-STD 810

LOUD button

When you need an instant "boost" in the volume, a simple push of the "LOUD" button gives you full volume immediately. In addition, holding the "LOUD" button mutes the audio output.

Noise cancelling microphone

The sub-microphone on the rear panel inverts phase and cancels out ambient noise from the main microphone. As a result, the IC-M35 reduces the affect of background noise (particularly treble noise) from the transmitted signal and makes it easier to catch voice communication.

Automatic volume adjustment

When in an engine room or high noise environment, the sub-microphone detects the ambient noise and the IC-M35 automatically increases the volume output to suit the surrounding environment.

Low power consumption

Although the IC-M35 delivers a high 6W*¹ RF output and 700mW audio output, its current saving circuit offers a practical 8 hours*² of operating time with the supplied 980mAh Lithium-Ion battery pack.

*¹ Depending on version.

*² Typical operation with Tx (Hi); Rx: standby=5:5:90

Large buttons and slim dimensions

Thanks to the large, easy-to-operate buttons, the IC-M35 provides intuitive operation. A pinched-waist slender body makes it easy to hold and carry the radio, and is surprisingly compact for a floating radio.

Other features

- IP57 dust protection and waterproof (1 m depth of water for 30 minutes) construction
- Dual/Tri-watch functions
- 4-step battery life indicator
- Auto scan function
- Instant access to Ch 16 or programmable call channel

• Audio output power (at 10% distortion) :

Internal speaker 700mW typical (with a 16Ω load)
External speaker 200mW (with an 8Ω load)

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Solar Radiation	505.4	I
Rain	506.4	I, III
Humidity	507.4	-
Salt fog	509.4	-
Dust	510.4	I
Immersion	512.4	I
Vibration	514.5	I
Shock	516.5	I, IV

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

Ingress Protection Standard	
Dust & Water	IP57 (Dust-protection and waterproof protection)

Supplied accessories

- Battery pack, BP-252
 - Battery charger, BC-173
 - Belt clip, MB-109
 - AC adapter, BC-147*
 - Antenna, FA-SC58V
 - Hand strap
 - Battery case, BP-251 (UK version only)
- (* Not supplied depending on version.)

SPECIFICATIONS

GENERAL

- Frequency range Tx : 156.000-161.450MHz
Rx : 156.000-163.425MHz
- Usable channels : INT, USA* channels;
70 programmable channels
(* Depending on version)
- Type of emission : 16K0G3E (FM)
- Current drain (at 7.4V DC) :
Tx 6W output 1.5A typical
5W output 1.3A typical
Rx AF max.
Internal speaker 300mA typical
External speaker 200mA typical
Power save 10mA typical
- Operating temperature range : -15°C to +55°C
- Antenna impedance : 50Ω (STUD)
- Dimensions (W×H×D) : 62×139.5×43 mm
(projections not included)
- Weight (approx.) : 295g (with BP-252, MB-109 and antenna)

TRANSMITTER

- Output power (Hi/Low) : 6/1W*
2/1W (with alkaline battery)
* Australia version 5/1W
* German version 1/0.5W
- Max. frequency deviation : ± 5.0kHz
- Frequency error : ± 1.5kHz
- Spurious emissions : 0.25μW
- Adjacent channel power : 70dB
- Audio harmonic distortion : Less than 10% (at 60% dev.)
- Residual modulation : 40dB

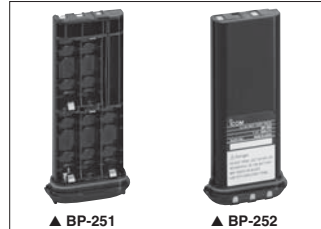
RECEIVER

- Sensitivity (20dB SINAD) : -2dBμ emf typical
- Squelch sensitivity : -6dBμ emf typical (threshold)
- Adjacent Ch. selectivity : 70dB
- Spurious response : 70dB*
* Australia version 65dB
- Intermodulation rejection : 68dB
- Hum and noise ratio : 40dB

Measurements made in accordance with EN301-178. All stated specifications are subject to change without notice or obligation.

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.



BP-251 BATTERY CASE
Battery case for LR03 (AAA)×5 alkaline cells. Output power: 2W.
BP-252 Li-Ion BATTERY PACK 7.4V, 950 mAh (min.) 980mAh (typ.). Provides 8 hours operating time (approx.).
(Typical operation with Tx (Hi); Rx: standby=5:5:90)



BC-173 DESKTOP CHARGER
+ **BC-147***¹ AC ADAPTER
Charges the battery pack, BP-252, in 10 hours (approx.).



BC-162 DESKTOP CHARGER
+ **BC-145/BC-123***² AC ADAPTER
Rapidly charges the battery pack, BP-252, in 2 hours (approx.).



HM-165 SPEAKER-MICROPHONE
Waterproof construction equivalent to IPX7 (1 m depth for 30 min.).



MB-109 BELT CLIP
Alligator type. Same as supplied.



FA-SC58V ANTENNA
Soft flexible antenna. Same as supplied.

*¹ BC-147SA for 120V AC. BC-147SE for 230V AC. BC-147SV for 240V AC.

*² BC-123SA for 120V AC. BC-145SE for 230V AC. BC-145SV for 240V AC. BC-145SUK for 230V UK plug.

Please note : The noise cancellation can produce little or no effect in some conditions depending on type of noise, or the position and distance between the noise source and the microphone, etc.
The noise cancellation does not work when an optional external speaker-microphone is connected.

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