

 ICOM

VHF MARINE TRANSCEIVER  
**IC-M35**



“Automatic Volume Adjustment”

“Noise Canceling Mic”

“Loud: Instant Maximum Audio”

“Motor boats”  
“Engine noise”  
“Personal watercraft”  
“700mW Audio with BTL Amp”  
“Forklifts and wharf”  
“Landing and unloading”  
“Wharf Crane”  
“Gusts of wind”  
“Engine noise”  
“Personal watercraft”  
“Roar of waves”  
“Large cargo vessels and tug boats”

## 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

- Waterproof construction equivalent to IPX7 (1m depth for 30 minutes)
- Dual/Tri-watch functions
- 4-step battery life indicator
- Auto scan function
- Instant access to Ch 16 or programmable call channel

## 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

- 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)

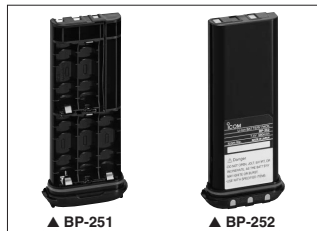
### Supplied accessories

- 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.)

Measurements made in accordance with EN301-178-2. 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 AAA (LR03)×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\*\* AC ADAPTER**  
Charges the battery pack, BP-252, in 10 hours (approx.).



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

\*1 BC-145/BC-147SA for 120V AC. SE for 230V AC. SV for 240V AC.  
BC-145SUK for 230V AC.



**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.

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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## Icom Inc.

1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

[www.icom.co.jp/world](http://www.icom.co.jp/world)

## Count on us!

### Icom America Inc.

2380 116th Avenue NE,  
Bellevue, WA 98004, U.S.A.  
Phone : +1 (425) 454-8155  
Fax : +1 (425) 454-1509  
E-mail : sales@icomamerica.com  
URL : <http://www.icomamerica.com>

### Icom New Zealand

146A Harris Road, East Tamaki,  
Auckland, New Zealand  
Phone : +64 (09) 274 4062  
Fax : +64 (09) 274 4708  
E-mail : inquiries@icom.co.nz  
URL : <http://www.icom.co.nz>

### Icom (UK) Ltd.

Blacksale House, Altira Park,  
Herne Bay, Kent, CT6 6GZ, U.K.  
Phone : +44 (0)1227 741741  
Fax : +44 (0)1227 741742  
E-mail : info@icomuk.co.uk  
URL : <http://www.icomuk.co.uk>

### Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,  
Taipei, Taiwan, R.O.C.  
Phone : +886 (02) 2559 1899  
Fax : +886 (02) 2559 1874  
E-mail : sales@asia-icom.com  
URL : <http://www.asia-icom.com>

Your local distributor/dealer:

### Icom Canada

Glenwood Centre #150-6165 Highway 17,  
Delta, B.C., V4K 5B8, Canada  
Phone : +1 (604) 952-4266  
Fax : +1 (604) 952-0090  
E-mail : info@icomcanada.com  
URL : <http://www.icomcanada.com>

### Icom (Europe) GmbH

Communication Equipment  
Auf der Krautweide 24  
65812 Bad Soden am Taunus, Germany  
Phone : +49 (6196) 76685-0  
Fax : +49 (6196) 76685-50  
E-mail : info@icom-europe.com  
URL : <http://www.icom-europe.com>

### Icom France s.a.s.

Zac de la Plaine,  
1 Rue Brindejone des Moulinais, BP 45804,  
31505 Toulouse Cedex 5, France  
Phone : +33 (5) 61 36 03 03  
Fax : +33 (5) 61 36 03 00  
E-mail : icom@icom-france.com  
URL : <http://www.icom-france.com>

### Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road,  
Clayton, VIC 3168 Australia  
Phone : +61 (03) 9549 7500  
Fax : +61 (03) 9549 7505  
E-mail : sales@icom.net.au  
URL : <http://www.icom.net.au>

### Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer"  
Bajos A 08174, Sant Cugat del Valles,  
Barcelona, Spain  
Phone : +34 (93) 590 26 70  
Fax : +34 (93) 589 04 46  
E-mail : icom@icomspain.com  
URL : <http://www.icomspain.com>

### Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland  
Phone : +48 (58) 550 7135  
Fax : +48 (58) 551 0484  
E-mail : icompolska@icompolska.com.pl  
URL : <http://www.icompolska.com.pl>