

9 December 2008

PRODUCT INFORMATION

Market.: Marine

From: Ian Lockyer

Ref.: M35M00181108MIL

IC-M35 Buoyant VHF Marine Transceiver

Icom are pleased to launch the new IC-M35 buoyant VHF marine handheld transceiver. The IC-M35 is the latest in Icom's line-up of rugged marine handhelds and comes with a great new feature that all boat users will love – Clear Audio Boost!



CLEAR VOICE BOOST

NEW!

3-Year Warranty
 Register on-line:
www.icomuk.co.uk

MAJOR SELLING POINTS

- ❑ CLEAR VOICE BOOST
- ❑ Loud button for instant Maximum volume boost
- ❑ Noise cancelling microphone
- ❑ Automatic volume adjustment
- ❑ Floats in the water
- ❑ IPX7 waterproof protection (1m depth for 30 minutes)
- ❑ 6W RF output and 700mW audio
- ❑ Large buttons and slim design
- ❑ Easy to see LCD with large channel indication
- ❑ Optional speaker-microphone, HM-165

FEATURES

❑ CLEAR VOICE BOOST (Clear Voice + Voice Boost)

In marine environments there are many sources of noise that can affect the quality of your communications, such as engine noise, roar of the waves etc. The IC-M35 automatically adjusts the outgoing voice and the incoming audio to compensate for the ambient noise level: whether you're in a loud environment or in a quiet area, the IC-M35 ensures your radio conversation is sent and received as clearly as possible.

❑ 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.



9 December 2008

PRODUCT INFORMATION

Market.: Marine

From: Ian Lockyer

Ref.: M35M00181108MIL

Automatic volume adjustment

In a high noise environment, the sub-microphone detects the ambient noise and the IC-M35 automatically increases the volume output to suit the surrounding environment.

700mW audio output

The IC-M35 employs a bridge-tied load (BTL) audio amplifier to increase the audio output power. The internal speaker delivers a loud 700mW (typical) audio output with clear sound even in noisy environments.

And yes, it floats too!

Just like the IC-M33, the IC-M35 floats in the water. If the radio is dropped over the side, it will come to the surface so you can retrieve it. As the radio has a rugged, waterproof body, it will keep on working even after it has been submerged.

* 1m depth for 30 minutes, equivalent to IPX7. Please note that the IC-M35 is not designed to be used under the water.

6W RF output with low power consumption

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

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

Large buttons and slim dimensions

The IC-M35 has large, easy-to-operate buttons that provides intuitive operation. A slender design body makes it extremely natural to handle.

Easy to see LCD with large channel indication

The IC-M35 has an easy to see large LCD (32×16 mm) with a clear 2-digit channel number indication. The LCD is laid out on the top of the front panel not to be covered with your hand. LCD and key backlighting is standard for night time operation.

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.

OTHER FEATURES

- | | |
|---|--|
| <input type="checkbox"/> Keypad backlighting | <input type="checkbox"/> Auto scan function |
| <input type="checkbox"/> Waterproof construction equivalent to IPX7 (1m depth for 30 minutes) | <input type="checkbox"/> Instant access to Ch 16 or programmable call channel |
| <input type="checkbox"/> Optional battery case for use with alkaline cells (The IC-M35 floats flat when this battery case is connected) | <input type="checkbox"/> Soft flexible antenna supplied |
| <input type="checkbox"/> Dual/Tri-watch functions | <input type="checkbox"/> Quick channel selection with Favourite channel function |
| <input type="checkbox"/> 4-step battery life indicator | <input type="checkbox"/> AquaQuake draining function |

9 December 2008**PRODUCT INFORMATION****Market.: Marine****From: Ian Lockyer****Ref.: M35M00181108MIL****AVAILABILITY****Available:** January 2009, orders are being taken now!**Trade Price:** £135.62 (ex.VAT)**List Price:** £169.52 (ex.VAT)

£194.95 (inc.VAT)

SPECIFICATIONS

The specifications described below are target values. They may be subject to change.

■ GENERAL

- Frequency range :
Tx 156.000–161.450MHz
Rx 156.000–163.425MHz
- Type of emission : 16K0G3E (FM)
- Power supply requirement: 7.4V DC (Icom battery pack only)
- Current drain (at 7.4V DC, approx.)
 - Transmit : 1.5A (at 6W output)
1.0A (at 2W output)
0.7A (at 1W output)
0.6A (at 0.5W output)
 - Receive AF max. : 200mA typ. (External audio)
300mA typ. (Internal audio)
 - Power save 10mA typ.
- Operating temp. range : –15°C to +55°C
- Antenna impedance : 50Ω (STUD)
- Dimensions : 62(W)·139.5(H)·43(D) mm
(projections not included)
- Weight (approx.) : 295g (with BP-252, FA-SC58V and MB-109)
- MIC impedance : 2kΩ

■ TRANSMITTER

- Output power : 6W, 1W
2W (alkaline high power)

- Modulation system : Variable reactance freq. mod.
- Max. Freq. deviation : ±5kHz
- Frequency error : ±1.5kHz
- Spurious emissions : 0.25μW
- Adjacent channel power : 70dB
- Audio harmonic distortion: 10% (at 60% dev.)
- Residual modulation : 40dB
- Audio freq. response : +1dB to –3dB of 6dB octave from 300Hz to 3000Hz

■ RECEIVER

- Intermediate freq. : 1st 21.7MHz
2nd 450kHz
- Sensitivity (20dB SINAD) : –2dBμ typical (emf)
- Squelch sensitivity : –6dBμ typical (emf)(at threshold)
- Adjacent Ch. selectivity : 70dB
- Spurious response : 70dB
- Intermodulation : 68dB rejection ratio
- Hum and noise : 40dB
- Audio freq. response : +1dB to –3dB of 6dB octave from 300Hz to 3000Hz
- Audio output power : 0.2W (External SP, 8^Ω load)
(10% distortion) 0.7W typical (Internal SP, 16^Ω)

Measurements made in accordance with EN 301 178-2 for IC-M35.

OTHER INFORMATION

If you have any questions about this product or anything in the Icom Marine range please contact Virgil Parker on (01227) 741741 or via e-mail at virgil@icomuk.co.uk. To see our full range of marine products why not visit our website at www.icomuk.co.uk/marine

This product will be added to our website soon, together with images, leaflets and manuals for download.

10 December 2008

PRODUCT INFORMATION

Market: Marine

From: Ian Lockyer

Ref.: M35M00181108MIL

IC-M35 Buoyant VHF marine transceiver								
<i>BP-252 Li-Ion Battery Pack, BP-251 Battery case, BC-173 Battery Charger, BC-174UK AC Adapter, Belt Clip, Antenna, Handstrap and a handbook</i>								
	Trade	2-4 units	5-9 units	10-19 units	20-49 unit	50+ units	List	VAT
IC-M35	135.62	132.23	128.84	125.45	122.06	118.67	169.52	194.95
	<ul style="list-style-type: none"> • CLEAR VOICE BOOST • Loud button for instant Maximum volume boost • Noise cancelling microphone • Automatic volume adjustment • Floats in the water • IPX7 waterproof protection (1m depth for 30 minutes) • 6W RF output and 700mW audio • Large buttons and slim design • Easy to see LCD with large channel indication • Optional speaker-microphone, HM-165 							
Product	Description					Trade	List	VAT
Adapter & Charger								
BC-145	UK mains PSU for BC-162 fast charger					9.71	13.87	15.95
BC-162	Single desktop rapid charger. (BP-252 only)					20.06	28.65	32.95
BC-173	Regular trickle charger. Charges BP-252 (requires BC-174UK)					9.10	13.00	14.95
BC-174	AC adapter (std)					9.71	13.87	15.95
Battery								
BP-251	Alkaline battery case (5 alkaline cells are required)					10.32	14.74	16.95
BP-252	Li-Ion battery pack (7.4V/980mAh) (std)					33.45	47.78	54.95
Microphones								
HM-165	Waterproof speaker microphone**					54.15	77.35	88.95
Belt clips								
MB-109	Alligator type belt clip.					6.66	9.52	10.95
Cable								
OPC-478	Cloning Cable (PC to transceiver) requires OPC-1655					13.36	19.09	21.95
OPC-478UC	Cloning cable. (USB type) requires OPC-1655					30.40	43.43	49.95
OPC-1655	Cable adapter for use with OPC-478/UC					13.36	19.09	21.95
Other Accessories								
FA-SC58V	Antenna					10.32	14.74	16.95
Service	Service Manual (CD)					50.00		
CS-M36	Cloning Software requires OPC-478/UC and OPC-1655					50.00		

Please note.

The transceiver is guaranteed waterproof only when the antenna, connector screw-cap and BP-251 or BP-252 are attached to the transceiver.

** Equivalent to IPX7. When connected to the IC-M35, the HM-165 and radio also float in the water.