


ICOM

MARINE PRODUCTS

SIMPLY THE BEST

2009 Edition



Icom Inc.

CLEAR VOICE BOOST

(Clear Voice + Voice Boost)



FLOATING

Submersible

1m depth for 30 minutes



“Clear Voice Boost”, Floating Radio

LOUD button

When you need an instant “boost” in the volume, a simple push of the “LOUD” button gives you full volume immediately.

Noise cancelling microphone

The sub-microphone on the rear panel inverts phase and reduces ambient noise (particularly high-pitched noise) from the main microphone.

Automatic volume adjustment

When in an engine room or other high noise environment, the sub-microphone detects the ambient noise and the IC-M36 automatically increases the volume output to suit the surrounding environment.

And yes, it floats too!

Continuing the legacy of the IC-M34, the IC-M36 floats back up to the surface if dropped overboard.

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.

6W RF output with low power consumption

Although the IC-M36 delivers a high 6W RF output and 700mW audio output, its current saving circuit offers a practical 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

Thanks to the large, easy-to-operate buttons, the IC-M36 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

- Submersible construction equivalent to IPX7 (1m depth for 30 minutes)
- Dual/Tri-watch functions
- 4-step battery life indicator
- Instant access to Ch 16 or Ch 9
- Auto WX alert function

VHF MARINE TRANSCEIVER
IC-M36

FLOATING

Submersible
1m depth for 30 minutes

Rugged
MIL-STD 810



The Original Floating VHF Radio!

Floating, submersible body

If you drop the IC-M34 into water, the radio comes up to the surface so that you can easily retrieve it from out of the water. As the radio has a rugged submersible body*, it will keep on working even after it has been submerged.



* Equivalent to IPX7 (1m depth for 30 minutes)

Easy to see LCD with large channel indication

The IC-M34 has an easy to see LCD (32x16 mm) with a clear 2-digit channel number indication. LCD and key backlighting is standard for night time operation.

Easy to use, easy to hold

9 large buttons on the front panel provide simple straight forward operation. It weighs only 305g (10.8oz), and the IC-M34's easy-to-hold rounded body fits comfortably in your hand.

Favorite channel function

The favorite channel function offers quick channel access to tagged channels by pushing the "FAV" button while ignoring untagged channels.

Other features

- Li-Ion battery and charger standard
- Dual/Tri-watch functions
- 2-step power saver
- Auto scan function
- Instant access to Ch 16
- Optional speaker-microphone, HM-165, also floats, when connected to the radio
- AquaQuake draining function



Powerful, Stylish, Submersible Plus More

Compact body, great "form factor"

A compact design, hourglass body-shape, and comfortable side grips give the IC-M72 an outstanding "form factor" – it's easy to use with just one hand!

6W RF output, long lasting battery

The IC-M72's 6W of transmit power can carry a conversation a long way. A large capacity 2000mAh Lithium-Ion battery allows for 15–16 hours of operation under normal conditions*.

* Tx:Rx:Stand-by=5:5:90 with BP-245N.

Impressive Force5Audio™

The M72's impressive audio output (600mW typ.*) is loud enough to hear in most any marine environment — even over loud engine noise. (* 10% distortion, 8Ω load)

Submersible PLUS (IPX8)

The IC-M72 offers Icom's best-ever protection against water intrusion. This radio has been tested to survive after being submerged in 1.5m (4.9ft) of water for 30 minutes.

Additional features

- Built-in voice scrambler compatible with other Icom fixed mount radios equipped with UT-112* *Depending on version
- Large, high resolution LCD display
- Auto scan function
- AquaQuake water draining function ejects water from speaker grill
- 4-step battery power indicator
- Dualwatch and Tri-watch functions
- Auto WX alert function • Auto power save
- Optional headsets plus OPC-1392 offers hands-free (VOX) operation

Rugged
MIL-STD 810

Submersible PLUS
1.5m depth for 30 minutes

FORCE5 AUDIO™





Compact size for commercial or recreational use

Tough and waterproof

The IC-M88 is built tough to withstand hazardous environments. Even if it is dropped into water, its waterproof construction* will protect it from harm.

* Equivalent to IPX7. (1m depth/30min.)

Simple operation

The volume/power knob combines with 6 clearly labeled front panel buttons to maximize simplicity of operation. A large, clear LCD with backlighting and backlit buttons make night time operation easy.

Li-Ion battery for long battery life

With the standard battery pack, the IC-M88 provides up to 15 hours of operating time.* Also, there's no worries about battery "memory" problems with Li-Ion technology.

* Tx:Rx:Stand-by= 5:5:90 with BP-227.

Intrinsically safe versions

Versions are available that conform to the intrinsically safe rating of FM Global. See the specification pages for the details.

22 programmable channels

The IC-M88 has 22 programmable channels reserved for land use (146-174MHz).* Wide/narrow channel spacing is programmable for each channel, and CTCSS and DTCS signaling is built-in.

* Appropriate license will be required.

Additional features

- Instant access to Ch.16 and Ch.9
- Simple add/delete TAG scanning
- Monitor button opens squelch
- Auto power save • Key lock function
- 4-step battery indicator
- Auto WX alert function (U.S.A. version only)



GMDSS portable for survival craft

Meets strict environmental requirements for GMDSS

The IC-GM1600 meets temperature, thermal shock, vibration and drop resistant (from 1 m height) requirements. After passing those environmental tests, the IC-GM1600 retains 1m depth waterproof construction as specified by IMO resolution A.809(19) and other related regulations.

Superior low temperature characteristic Lithium battery pack

For survival craft use, the optional BP-234 (non-rechargeable) 3300mAh lithium battery pack provides more than 8 hours* of operating time even at -20°C.

* Tx:Rx:Stand-by=6:6:48.

Large keypad with positive button action

Large buttons and knobs provide tactile feedback for positive operation.

Wide viewing angle LCD display

A wide viewing angle, high intensity LCD offers extra clear, easy to read characters. The bright LED indicator on the top of the panel shows the operating condition clearly.

Easy to operate for all operators

Operation instructions are printed on the rear panel. All operations can be made with one hand.

Additional features

- One touch access to Channel 16 and call channel
- Highly visible yellow colored body
- Optional VOX headset for on-board use
- Optional waterproof speaker microphone, HM-125





The ultimate VHF!



Available in black or gray.



Built-in ITU Class-D DSC

No matter what channel you're tuned to, a separate and independent receiver inside the IC-M604 continuously monitors Ch. 70.

Simultaneous connection of two COMMANDMICIII™s

See the COMMANDMICIII™ (HM-162B/SW) page for details.

NMEA Input/Output

NMEA output allows you to plot your own or another ship's position data on a PC or navigation equipment.

30 Watt 2-way Hailer capability

When connected to a hailer horn, communication with other boats, deck hands or marina officials is easy.

Other features

- Submersible; 1m depth for 30 minutes. Equivalent to IPX7 (except cables)
- Superior receiver performance
- Auto fog horn function
- RX speaker "receiver-repeater" function
- Large LCD with dot-matrix characters
- Front and rear panel Mic. connection
- Auto WX alert function (U.S.A. version only)
- AquaQuake draining function
- Optional Voice Scrambler, UT-112

Built-in ITU Class-D DSC

25W hailer/RX speaker and fog horn capability

When connected to a hailer horn, the IC-M504 (or optional COMMANDMICIII™) can call another ship or person. The RX speaker function allows you to monitor the radio audio from the hailer. Four fog horn patterns are available for the automatic fog horn.

Submersible PLUS

The IC-M504 has superior water tight protection and extends the limit to 1.5m depth for 30 minutes, equivalent to IPX8 water proof protection standard.

Optional COMMANDMICIII™

Allows 2nd station or intercom function and controls all IC-M504 functions including DSC, hailer and fog horn operations.

Large, full dot matrix display

Other features

- NMEA Input/Output
- Rear panel microphone version available
- Superior receiver performance
- Instant access to Ch.16 and Ch.9
- Big bass sound speaker
- Auto WX alert function (U.S.A. version only)
- Optional Voice Scrambler, UT-112

Feature rich with a user friendly focus!



COMMANDMICIII™ capable.



Available in black or gray.



Fully featured compact submersible radio



COMMANDMICII™ capable.

Submersible
1m depth for 30 minutes

FORCE 5 AUDIO™

Available in black or super white.

VHF MARINE TRANSCEIVER
IC-M422

Position request and position report

When connected to an external GPS receiver, the position request and position report functions allow you to exchange the ship's position information. The received position information can be plotted on navigation equipment that has NMEA input.

Public address (PA) and RX speaker functions

When connected to an external loud speaker or hailer, you can make an announcement to crew members on the boat via the hand microphone. The RX speaker function allows you to monitor the radio audio from the loud speaker or hailer.

Built-in DSC meets RTCM SC101

Submersible (1m depth for 30 min.)*

* Equivalent to IPX7. (Except cables.)

Optional COMMANDMICII™

Other features

- Force 5 Audio for superior speaker audio
- One touch access to Scan button
- Dualwatch and Tri-watch functions
- LCD backlighting and key illumination
- Auto WX alert function (U.S.A. version only)

Compact and submersible

Equivalent to IPX7 (1m depth for 30 minutes, except cables).

Large easy-to-see LCD

Shows full size channel number with 4-step backlighting.

Built-in DSC (RTCM SC-101)

For distress calls, or for position request/position report.

Force5Audio™ speaker

Delivers impressive audio output with powerful bass.

Favorite channel function

Offers quick channel selection from the microphone up/down buttons.

AquaQuake draining function

The vibrating "buzz" sound clears water away from the speaker grill.

Weather channel with WX alert

Listen for important weather broadcasts.

Dualwatch and Tri-watch functions

Monitors Ch.16 and/or call channel, while using another channel.

Submersible compact body with large LCD and powerful audio



Submersible
1m depth for 30 minutes

FORCE 5 AUDIO™

Rugged
MIL-STD 810

Available in black, white or gray.

VHF MARINE TRANSCEIVER
IC-M304

Full control 2nd/3rd station capability for IC-M604 and M504



COMMANDMICIII™



Available in black or super white.

**REMOTE-CONTROL MICROPHONE
HM-162B/SW**

Full control 2nd/3rd station capability for IC-M604 and M504

The COMMANDMICIII™ is full control remote control microphone for use with the radio from up to 18.3m (60ft) away. All functions of the radio, including distress call, DSC, fog horn, as well as transmission, reception and Intercom are available.

* IC-M504: 2nd station only.

IC-M604: Two units available.

Multi-function rotary dial

The multi-function rotary dial gives you quick and easy access to many settings, including operating channel, AF volume, squelch, menu settings and more.

Submersible PLUS (1.5m depth for 30 min.)

The COMMANDMICIII™ is tightly protected from water intrusion. (1.5 m depth for 30 minutes, equivalent to IPX8)

Extra large 45mm (d) speaker for superior audio

Other features

- DSC full control capability
- DSC "Distress" button on back of unit
- Full dot-matrix LCD
- 2.8W (typ.) external speaker terminal

2nd station capability*

The COMMANDMICII™ provides 2nd station capability to talk and listen to other station(s), control most of the radio settings (not DSC) and use as an intercom between the radio and COMMANDMICII™.

* IC-M422, M504.; 2nd station only.

IC-M604: Two units can be attached.

Up to 60ft remote extension

The COMMANDMICII™ comes with a 20ft (6.1m) extension cable and up to 2 optional extension cables, OPC-999 (20ft; 6.1m), can be attached for 60ft (18.3m) remote extension.

Remote power On/Off, PA and Rx speaker functions

When used with the IC-M422, the public address, Rx speaker and remote power on functions are available. The remote power on function allows you to turn on or off the IC-M422 from the COMMANDMICII™.

Submersible (1m depth for 30 min.)*

* Equivalent to IPX7. (Except cables.)

Other features

- 4-step LCD and keypad backlighting
- Slim dimensions (31.4mm depth)

2nd station capability for IC-M422

COMMANDMICII™



Available in black or super white.

**REMOTE-CONTROL MICROPHONE
HM-157B/SW**

Advanced DSP marine SSB with compact remote head



Photo shows the IC-M802 U.S.A. version.

HF MARINE TRANSCEIVER IC-M802

Digital Signal Processor

The digital IF filter provides flexible filter settings for narrow bandwidth signals without having to install an optional filter.

Built-in ITU Class E DSC*

The IC-M802 conforms to Class E DSC requirements, vital for your safety at sea.

* U.S.A. and Canadian versions only.

Alphanumeric readout

Seven characters can be programmed into each memory channel to conveniently display station names or ship names for simplified operation.

150W output power

A large cooling fan system, in combination with the aluminum chassis, allows conditions for transmission at a full 150W* (PEP) RF output power—even during demanding RTTY (radio teletype) operation.

* 60W (PEP) above 24 MHz bands.

Other features

- General coverage receiver
- Terminals for frequency/mode control via NMEA interfacing
- Automatic tuning function
- Large, front-mounted speaker
- Weather fax ready
- Backlight control
- CW full break-in and semi break-in
- 2-tone alarm built-in (Optional depending on version)
- 1136 channels available

One touch e-mail button*

The e-mail button allows quick access to the pre-programmed e-mail frequency list.

* U.S.A. and Canadian versions only.

Automatic antenna tuner, AT-140

The optional AT-140 easily connects to the radio without opening the casing. The tuner through function can be used with the AT-140.

Other features

- 4×8-inch remote controller and 4×4-inch external speaker
- Large LCD with dot matrix characters
- Channel and Group dials offer easy channel selection and operation
- Powerful 150W (PEP) output
- 0.5 to 29.9999MHz wideband receiver
- DIN and RS-232C connectors for external equipment
- NMEA 0183 interface included
- 1035 ITU, 160 programmable and 160 e-mail* channels are available
- * U.S.A. and Canadian versions only.
- Built-in 2-tone alarm function*
- * General version only.

Simple, reliable, worldwide communications



MF/HF MARINE TRANSCEIVER IC-M710

A favorite among SSB marine radio operators



SSB RADIO TELEPHONE
IC-M700PRO

Simplified operation

Channel selection is quick and easy to access with large, independent Group and Channel knobs. Each panel button has only 1 function. The large easy to read display shows channel (or frequency) and operating status at a glance.

Data operation capability

The powerful 150W* (PEP) transmitter provides long distance communication, and ensures that power is always available to you—even during demanding RTTY (radio teletype) or e-mail operation.

*60W (PEP) above 24MHz bands.

Other features

- Optional automatic antenna tuner, AT-140/AT-130, matches the radio to your antenna
- 0.5 to 29.9999MHz wide band general coverage receive
- Channel knob allows the user to tune specific frequencies around a memory channel
- 2 DIN connectors for external equipment connection—linear amplifier, FSK terminal, e-mail modem, etc.
- 2-tone alarm built-in (Optional depending on version)
- NMEA 0183 interface included

Dual channel receive capability

The MXA-5000 receives Ch 87B (161.975 MHz) and Ch 88B (162.025MHz) simultaneously and allows you to monitor Class A and Class B AIS data.

Dual mode data output

The MXA-5000 has two data outputs. One is RS-422 for connection with equipment such as marine radar or GPS chartplotter which accept the VDM sentence format. The second is RS-232C for PC connection*.

* AIS software is not supplied from Icom.

Built-in antenna splitter to share one antenna

The MXA-5000 has built-in antenna splitter to share a single antenna with a VHF radio*. When you transmit from the connected radio, the Tx signal bypasses the MXA-5000 to protect the internal circuit.

* Insertion loss : 3.5dB (approx.)

GPS data multiplex

When connected a GPS receiver to the MXA-5000, GPS position information such as RMC, GGA, GNS and GLL formats can be multiplexed with AIS data (VDM format).

Compact size

132(W)×34(H)×155(D)* mm dimensions.

* Mounting bracket is not included in the dimensions.

Advanced Collision Avoidance with Real-time Vessel Traffic Information



AIS RECEIVER
MXA-5000

Easy operation under all conditions

Up to 36 NM observation range

The 60cm (2ft) radome scanner provides up to 36 NM (nautical miles) of observation range with the powerful 4kW magnetron.



● Radome Scanner for MR-570R

High-contrast 5.7" LCD display

The compact 5.7" display is convenient for pleasure boats, where space is limited.

4 types of operating modes

The true motion,* North-up, Course-up and Heading-up modes are available.

* True motion requires additional bearing and position data.

Waypoint indication

When connected to a GPS or other navigation system,* the waypoint indication is shown on the screen (with ship's position in Lon/Lat and distance to the point).

* NMEA 0183, N+1, AUX data output required.

Multiple language selection

Menu indications can be selected from English, Spanish, Portuguese, Chinese, and Korean as per your preference.

And more features

- Automatic tuning and automatic GAIN
- Rain clutter and automatic sea clutter
- Switchable pulse-width
- Off-center function
- Interference Reduction
- Zoom function expands the targets
- NMEA 0183 format output

- Stretch function enlarges the echo images
- 2 EBLs and 2 VRMs
- Electrical Plotting Aid (EPA) allows you to plot 10 targets and forecast the courses
- CPA (Closest Point of Approach) and TCPA (Time to Closest Point of Approach) alarm
- Man Overboard point (MOB)



High resolution over a long range

MR-1000TIII : Powerful 6kW output power, 120cm open array scanner observes up to 72nm

MR-1000TII : 4kW output power, 120cm open array scanner observes up to 48nm

MR-1000RII : 4kW output power, 60cm radome scanner observes up to 36nm

8-level bright picture on 10-inch monochrome green CRT



Open Scanner for MR-1000TII/TIII (left) and Radome Scanner for MR-1000RII (right)

ATA (Automatic Tracking Aid)

The ATA function allows you to plot up to 10 targets and the radar continues to track the targets automatically. Used together with the CPA (Closest Point of Approach) and/or the TCPA (Time to CPA) alarm, reliable collision avoidance increases user's safety at sea.

Power saver function

Power saver function pauses the scanning for a preset time and conserves battery consumption. When used with the zone alarm function, the CRT display is turned off until an object enters the programmed alarm zone.

Other features









- Waypoint Indication
- Man Overboard (MOB) function
- Alarm zone setting

- Automatic calibration
- English and Korean indication for display
- 2 EBLs (Electronic Bearing Lines) and 2 VRMs (Variable Range Markers)
- Head-up, North-up, Course-up, and True motion*








* North-up and course-up require external bearing data. True-motion requires external bearing and position/speed data.











OPTIONS FOR VHF HANDHELD TRANSCEIVERS

MODEL NAME	BATTERY CASES		BATTERY PACKS					DESKTOP CHARGERS	
	BP-226 AA(LR6)×5 cells Water resistance, equivalent to IPX4	BP-251*1 AAA(LR03)×5 cells	BP-227 7.2V/1700mAh (Li-Ion)	BP-227FM 7.2V/1700mAh (Li-Ion)	BP-234 9.0V/3300mAh (Lithium: non- rechargeable)	BP-245N 7.4V/2000mAh (Li-Ion)	BP-252 7.4V/980mAh (Li-Ion) charge with BC-162 or BC-173.	BC-119N Rapid charger	BC-152 Regular charger
IC-M36									
IC-M36		✓					✓		
IC-M34		✓					✓		
IC-M72						✓		✓	
IC-M88	✓		✓	✓ (For intrinsically safe use)				✓ (Use with AD-100)	✓
IC-GM1600					✓ (For survival craft)		✓ (On-board use only)		

*1 The IC-M36 and M34 float when used with most common brand AAA batteries. Battery weight varies by manufacturer. Please check your IC-M36 or M34 for buoyancy in a shallow area first when using AAA batteries.










MODEL NAME	DESKTOP CHARGERS			MULTI-CHARGER	AC ADAPTERS		
	BC-162 Rapid charger	BC-166 Regular charger	BC-173 Regular charger	BC-121N Rapid charger	BC-145*2 16V/0.93A	BC-147*2 12V/200mA	BC-157 12V/7A
IC-M36							
IC-M36	✓		✓		✓ (Use with BC-162)	✓ (Use with BC-173)	
IC-M34	✓		✓		✓ (Use with BC-162)	✓ (Use with BC-173)	
IC-M72		✓		✓ (Use with AD-114)	✓ (Use with BC-119N)	✓ (Use with BC-166)	✓ (Use with BC-121N)
IC-M88				✓ (Use with AD-100)	✓ (Use with BC-119N)	✓ (Use with BC-152)	✓ (Use with BC-121N)
IC-GM1600			✓ (On-board use only)			✓ (Use with BC-173; On-board use only)	

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






MODEL NAME	CHARGER ADAPTERS		CIGARETTE LIGHTER CABLE	DC POWER CABLES		SPEAKER MICROPHONES		
	AD-100	AD-114	CP-17L	OPC-515L	OPC-656	HM-138 IPX7	HM-165 IPX7	HM-167 IPX8
IC-M36								
IC-M36							✓	
IC-M34							✓	
IC-M72		✓ (Use with BC-119N/BC-121N)	✓ (Use with BC-119N)	✓ (Use with BC-119N)	✓ (Use with BC-121N)			✓
IC-M88	✓ (Use with BC-119N/BC-121N)		✓ (Use with BC-119N/BC-152)	✓ (Use with BC-119N/BC-152)	✓ (Use with BC-121N)	✓		
IC-GM1600								

: Applicable : Not applicable

OPTIONS FOR VHF HANDHELD TRANSCEIVERS







MODEL NAME	SPEAKER MICROPHONES		HEADSETS			HEADSET ADAPTER CABLE	BELT CLIPS		
	HM-168 IPX7	HM-169 IP57	HS-94** Earhook type with boom microphone	HS-95** Behind-the-head type	HS-97** Throat microphone type	OPC-1392	MB-86	MB-98	MB-103
IC-M36									
IC-M34									
IC-M72			(Use with OPC-1392) ✓	(Use with OPC-1392) ✓	(Use with OPC-1392) ✓	✓	✓		✓
IC-M88	✓	✓					✓	✓	
IC-GM1600							✓		





** HS-94, HS-95, and HS-97 are not waterproof.

MODEL NAME	BELT CLIPS		LEATHER BELT HANGERS		VOICE SCRAMBLER FUNCTION	ANTENNAS		
	MB-103Y	MB-109	MB-96N	MB-96F	Equivalent to UT-112 Built-in to following models.	FA-S59V FA-S64V FA-SC55V FA-SC58V		
IC-M36								
IC-M34		✓				FA-SC58V		
IC-M72		✓	✓	(Use with MB-103) ✓	(Depending on version) ✓	FA-S59V or FA-S64V		
IC-M88			✓	(Use with MB-98) ✓	(IS version only) ✓	FA-S59V		
IC-GM1600	✓		✓	(Use with MB-103Y) ✓		Fixed type		

: Applicable : Not applicable

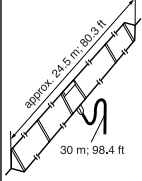








OPTIONS FOR VHF FIXED MOUNT TRANSCEIVERS







MODEL NAME	HAND MICROPHONES			COMMANDMIC™		EXTENSION CABLES			
	HM-126RB/RG Speaker microphone 	HM-150B/SW	HM-164B/SW/G	HM-162B/SW 	HM-157B/SW 	OPC-999 6.1 m; 20 ft cable for use with COMMANDMICII 	OPC-1000 6.1 m; 20 ft cable for use with HM-126RB/RG	OPC-1541 6.1 m; 20 ft cable for use with COMMANDMICIII 	OPC-1542 For rear panel Mic. connection 
IC-M604	✓			✓	✓	✓ (Use with HM-157B/SW)	✓ (Use with HM-126RB/RG)	✓ (Use with HM-162B/SW)	
IC-M504	✓			✓	✓	✓ (Use with HM-157B/SW)	✓ (Use with HM-126RB/RG)	✓ (Use with HM-162B/SW)	✓ (Use with HM-126RB/RG)
IC-M422		✓			✓	✓ (Use with HM-157B/SW)			
IC-M304			✓						

MODEL NAME	FLUSH MOUNT KITS		DUST COVER	VOICE SCRAMBLER				
	MB-69 	MB-75 	MB-92 	UT-112 Total of 32 voice scramble codes available 				
IC-M604		✓		✓				
IC-M504		✓		✓				
IC-M422	✓							
IC-M304	✓		✓					


: Applicable : Not applicable

OPTIONS FOR HF MARINE TRANSCEIVERS

MODEL NAME	FOLDED DIPOLE ANTENNA	ANTENNA MATCHERS		ANTENNA TUNERS		SHIELDED CONTROL CABLES		HAND MICROPHONES	
	AH-710 	MN-100 	MN-100L 	AT-130 	AT-140 	OPC-566 	OPC-1147/N 10m; 32.8ft 	HM-135 	HM-180 
IC-M802	✓	✓	✓	✓	✓	(Use with AT-130)	(Use with AT-140)	✓	
IC-M710	✓	✓	✓	✓	✓	(Use with AT-130)	(Use with AT-140)		✓
IC-M700PRO	✓	✓	✓	✓	✓	(Use with AT-130)	(Use with AT-140)		✓

MODEL NAME	EXTERNAL SPEAKERS	FLUSH MOUNT KIT	REMOTE CONTROLLER	SEPARATION CABLE	FILTER	2-TONE ALARM UNIT
	SP-24 	MB-75 	RC-25 	OPC-1106 5m; 16.4ft 	FL-100 CW/RTTY (FSK) NARROW FILTER 500Hz/-6dB 	UT-95 Provides an alarm function. 
IC-M802	✓	✓	✓	✓		
IC-M710					✓	(Already built-in to some versions)
IC-M700PRO					✓	(Already built-in to some versions)

: Applicable
 : Not applicable

GENERAL PURPOSE POWER SUPPLY
PS-300 
<ul style="list-style-type: none"> • Max. 30A output (25A continuous) • 1-15V variable output voltage • Transformer type • Voltage and current dual meters • 209(W)×120(H)×280(D) mm; 8⁷/₃₂×4²³/₃₂×11¹/₃₂ in dimensions (Not available in some countries)

SPECIFICATIONS

VHF HANDHELD TRANSCEIVERS

	IC-M36	IC-M34	IC-M72	IC-M88	IC-GM1600
Frequency range (Unit:MHz)	Tx: 156.025–157.425 Rx: 156.050–163.275	Tx: 156.025–157.425 Rx: 156.050–163.275	Tx: 156.025–157.425 Rx: 156.050–163.275	Tx: 156.025–157.425 Rx: 156.050–163.275 146–174 (LMR; Tx/Rx)	156.300–156.875 (Tx/Rx)
Dimensions (projections not included; W×H×D)	62×139.5×43 mm 2 ⁷ / ₁₆ ×5 ¹ / ₂ ×1 ¹ / ₁₆ in	62×141.5×43 mm 2 ⁷ / ₁₆ ×5 ⁹ / ₁₆ ×1 ¹ / ₁₆ in	52.5×125×30 mm 2 ¹ / ₁₆ ×4 ²⁹ / ₃₂ ×1 ³ / ₁₆ in	62×97×39 mm 2 ⁷ / ₁₆ ×3 ¹³ / ₁₆ ×1 ¹⁷ / ₃₂ in	65×145×44 mm 2 ⁹ / ₁₆ ×5 ²³ / ₃₂ ×1 ²³ / ₃₂ in
Weight (approx.)	295g; 10.4oz (With BP-252, MB-109 and FA-SC58V)	305g; 10.8oz (With BP-252, MB-109 and FA-SC58V)	280g; 9.9oz (With BP-245)	280g; 9.9oz (With BP-227)	385g; 13.6oz (With BP-234)
Current drain	Transmit (High)	1.5A typical	1.7A/1.5A typ. (6W/5W)	1.6A typical	1.0A/0.7A (2W/1W)
	Max. audio	300mA typ. (Internal SP)	200mA typical	400mA typ. (Internal SP)	200mA
	Power save	10mA typical	20mA typical	30mA typical	20mA typical
Sensitivity (at 12dB SINAD)	0.25µV typical	0.25µV typical	0.22µV typical	0.25µV typical	0.25µV typ. (USA version)
Intermodulation rejection	70dB typical	70dB typical	70dB typical	70dB typical	70dB (USA), 68dB (GEN)
Audio output power (10% dist./ 8Ω load)	700mW typ. (Internal SP) (16Ω load)	350mW typical	600mW typ. (Internal SP)	350mW typical	350mW typical
RF output power	6/1W (With BP-252)	5/1W (With BP-252)	6/3/1W	5/3/1W	2/1W
	2/1W (With alkaline cells)	2/1W (With alkaline cells)	5/3/1W (Aus version)		

Measurements made in accordance with TIA/EIA603 for IC-M36, M34, M72 and M88. TIA/EIA603 and FCC Part 80.271 or ETS300-225-3 for IC-GM1600.

VHF FIXED MOUNT TRANSCEIVERS and AIS RECEIVER

	IC-M604	IC-M504	IC-M422	IC-M304	MXA-5000
Frequency range (Unit:MHz)	Tx: 156.025–157.425 Rx: 156.050–163.275	Tx: 156.025–157.425 Rx: 156.050–163.275	Tx: 156.025–157.425 Rx: 156.050–163.275	Tx: 156.025–157.425 Rx: 156.050–163.275	Rx: 161.975, 162.025 Simultaneous receive
Power supply requirement	13.8V DC ±15%	13.8V DC ±15%	13.8V DC ±15%	13.8V DC ±15%	12.0V DC (10.8–15.6V)
Dimensions (projections not included; W×H×D)	220×110×109.4 mm 8 ² / ₃₂ ×4 ¹ / ₃₂ ×4 ⁵ / ₁₆ in	165×110×123.2 mm 6 ¹ / ₂ ×4 ¹ / ₃₂ ×4 ² / ₃₂ in	164×78×139.3 mm 6 ¹ / ₃₂ ×3 ¹ / ₁₆ ×5 ¹ / ₃₂ in	153×67×133 mm 6 ¹ / ₃₂ ×2 ⁵ / ₈ ×5 ¹ / ₄ in	132×34×155 mm 5 ³ / ₁₆ ×1 ¹ / ₃₂ ×6 ³ / ₃₂ in
Weight (approx.)	1.4kg; 3.1lb	1.45kg; 3.2lb	1.07kg; 2.4lb	825g; 1.8lb	460g; 1.0lb
Current drain	Transmit (High)	5.5A	5.5A	5.5A	–
	Max. audio output	1.5A	1.5A	1.5A	0.25A
Sensitivity (at 12dB SINAD)	0.22µV typical	0.22µV typical	0.22µV typical	0.22µV typical	–116dBm typical
Intermodulation rejection	80dB	80dB typical	70dB	70dB	65dB
Audio output power (10% dist. /4Ω load)	5W typical	4.5W typical	4.5W typical	4.5W typical	–
RF output power	25/1W	25/1W	25/1W	25/1W	–

Measurements made in accordance with TIA/EIA 603 for IC-M604, M504, M422 and M304. IEC62287-1 for MXA-5000.

HF MARINE TRANSCEIVERS

	IC-M802	IC-M710	IC-M700PRO	
Frequency range (Unit:MHz)	Tx: 1.6–2.9999, 4.0–4.9999, 6.0–6.9999, 8.0–8.9999, 12.0–13.9999, 16.0–17.9999, 18.0–19.9999, 22.0–22.9999, 25.0–27.5000 Rx: 0.5–29.9999			
Power supply requirement	13.6V DC ±15% (negative ground)	13.6V DC ±15% (negative ground)	13.6V DC ±15% (negative ground)	
Dimensions (projections not included; W×H×D)	Main unit: 240×94×238.4 mm; 9 ⁷ / ₁₆ ×3 ¹ / ₁₆ ×9 ³ / ₈ in Controller unit: 220×110×84.4 mm; 8 ² / ₃₂ ×4 ¹ / ₃₂ ×3 ⁹ / ₁₆ in	291.4×116.4×315 mm 11 ¹⁵ / ₃₂ ×4 ¹⁹ / ₃₂ ×12 ¹³ / ₃₂ in	291.4×116.4×315 mm 11 ¹⁵ / ₃₂ ×4 ¹⁹ / ₃₂ ×12 ¹³ / ₃₂ in	
Weight (approx.)	Main unit: 4.7kg; 10.4lb, Controller unit: 570g; 1.3lb	7.9kg; 17.4lb	7.9kg; 17.4lb	
Current drain	Transmit (High)	30A typ. at max. power	30A at max. power	30A at max. power
	Max. audio output	3.0A	2.5A	2.5A
Sensitivity (at 10dB S/N; 1.8–29.999MHz)	J3E, A1A, J2B, F1B : 0.5µV H3E : 3.2µV	J3E, J2B, F1B, R3E, A1A (12dB SINAD) : 0.5µV H3E : 3.2µV	J3E, J2B, R3E, A1A (12dB SINAD) : 0.5µV typ. H3E : 2.2µV typ.	
Selectivity	J3E, R3E, J2B, A1A : 2.4kHz/–6dB 3.6kHz/–60dB	J3E, R3E, J2B, A1A : 2.3kHz/–6dB 4.2kHz/–60dB	J3E, R3E, J2B, A1A : 2.3kHz/–6dB 4.2kHz/–60dB	
Audio output power (10% dist/ 4Ω load)	4.0W	4.5W	5W typical	
RF output power (PEP) (output power differs depending on version)	150/60/20W	150/60/20W (below 24MHz) 60/20W (above 24MHz)	150/60/20W (below 24MHz) 60/20W (above 24MHz)	

SPECIFICATIONS

MARINE RADARS

		MR-570R	MR-1000RII	MR-1000TII	MR-1000TIII	
General	Minimum range	25m (when measurement range is 1/8 NM)	25m (when measurement range is 1/8 NM)	25m (when measurement range is 1/8 NM)	25m (when measurement range is 1/8 NM)	
	Maximum range	36NM	36NM	48NM	72NM	
	Power supply requirement	10.2-42V DC	10.2-42V DC	10.2-42V DC	10.2-42V DC	
	Power consumption	47W	60W	70W	80W	
Display	Display (pixels)	5.7" monochrome LCD (320x240)	10" monochrome CRT (640x480)	10" monochrome CRT (640x480)	10" monochrome CRT (640x480)	
	Usable temperature range	-15°C to +55°C; +5°F to +131°F	-15°C to +55°C; +5°F to +131°F	-15°C to +55°C; +5°F to +131°F	-15°C to +55°C; +5°F to +131°F	
	Dimensions (W×H×D) (projections not included)	186×203×103 mm 7 ⁵ / ₁₆ ×8×4 ¹ / ₁₆ in	269×264×258 mm 10 ¹⁹ / ₃₂ ×10 ¹³ / ₃₂ ×10 ⁵ / ₃₂ in	269×264×258 mm 10 ¹⁹ / ₃₂ ×10 ¹³ / ₃₂ ×10 ⁵ / ₃₂ in	269×264×258 mm 10 ¹⁹ / ₃₂ ×10 ¹³ / ₃₂ ×10 ⁵ / ₃₂ in	
	Weight (approx.)	2kg; 4.4lb	6.5kg; 14.3lb	6.5kg; 14.3lb	6.5kg; 14.3lb	
Scanner	Type	60cm (2ft) slotted wave-guided array in radome	60cm (2ft) slotted wave-guided array in radome	120cm (4ft) slotted wave-guided array	120cm (4ft) slotted wave-guided array	
	Peak output power	4kW (PEP)	4kW (PEP)	4kW (PEP)	6kW (PEP)	
	Rotation speed	24/36/48rpm typ.	24/36/48rpm typ.	24/36/48rpm typ.	22/24/36/48rpm typ.	
	Beamwidth	Horizontal	4° typ.	4° typ.	2° typ.	2° typ.
		Vertical	22° typ.	22° typ.	25° typ.	25° typ.
	Intermediate frequency	60MHz	60MHz	60MHz	60MHz	
	Transmission frequency	9410MHz ±30MHz	9410MHz ±30MHz	9410MHz ±30MHz	9410MHz ±30MHz	
	Usable temperature range	-25°C to +70°C; -13°F to +158°F	-25°C to +70°C; -13°F to +158°F	-25°C to +70°C; -13°F to +158°F	-25°C to +70°C; -13°F to +158°F	
	Dimensions (projections not included)	607(diameter)×243(H) mm 23 ²⁹ / ₃₂ (diameter)×9 ⁹ / ₁₆ (H) in	607(diameter)×243(H) mm 23 ²⁹ / ₃₂ (diameter)×9 ⁹ / ₁₆ (H) in	1205(diameter)×381(H) mm*1 47 ⁷ / ₁₆ (diameter)×15(H) in	1205(diameter)×381(H) mm*1 47 ⁷ / ₁₆ (diameter)×15(H) in	
	Weight (approx.)	9kg; 19.8lb	8kg; 17.6lb	17kg; 37.5lb	17kg; 37.5lb	
Cables	Connection cable length between display and scanner	10m; 32.8ft (OPC-1075, standard) 20m; 65.6ft (OPC-1077A, option) 30m; 98.4ft (OPC-1078A, option)	15m; 49.2ft (OPC-1188A, standard) 20m; 65.6ft (OPC-1077A, option) 30m; 98.4ft (OPC-1078A, option)	20m; 65.6ft (OPC-1189A, standard*2) 20m; 65.6ft (OPC-1077A, option) 30m; 98.4ft (OPC-1078A, option)	20m; 65.6ft (OPC-1189A, standard*2) 20m; 65.6ft (OPC-1077A, option) 30m; 98.4ft (OPC-1078A, option)	



Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL-810 F Method, Proc.	IC-M34	IC-M72	IC-M88	IC-M604	IC-M504	IC-M304	HM-162
Low Pressure Storage (Altitude)	500.4 I		✓	✓	✓	✓		✓
Low Pressure Operation (Altitude)	500.4 II		✓	✓	✓	✓		✓
High Temp. Storage	501.4 I		✓	✓	✓	✓		✓
High Temp. Operation	501.4 II		✓	✓	✓	✓		✓
Low Temp. Storage	502.4-3 I		✓	✓	✓	✓		✓
Low Temp. Operation	502.4-3 II		✓	✓	✓	✓		✓
Temp. Shock	503.4 I	✓	✓	✓	✓	✓	✓	✓
Solar Radiation	505.4 I		✓	✓	✓	✓		✓
Rain Blowing	506.4 I	✓	✓	✓	✓	✓	✓	✓
Rain Drip	506.4 III	✓	✓	✓	✓	✓	✓	✓
Humidity	507.4	✓	✓	✓	✓	✓	✓	✓
Salt Fog	509.4	✓	✓	✓	✓	✓	✓	✓
Dust Blowing	510.4 I		✓	✓	✓	✓		✓
Immersion	512.4 I	✓	✓	✓	✓	✓	✓	✓
Vibration	514.5 I	✓	✓	✓	✓	✓	✓	✓
Shock Functional	516.5 I	✓	✓	✓	✓	✓	✓	✓
Shock Transit Drop	516.5 IV	✓	✓	✓	✓	✓	✓	✓

Also meets equivalent MIL-STD-810-C, -D and -E tests. The IC-M36 is under evaluation.

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

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia and/or other countries. COMMANDMIC and FORCE5AUDIO logo are registered trademarks of Icom Inc. (Japan) in the United States.

*1 Diameter of rotation × height *2 Peeled for connection with MR-1000TII/TIII



Approved intrinsically safe classifications for the IC-M88 intrinsically safe version.

Intrinsically safe : Class I, II, III, Division 1, Groups C, D, E, F, G

Non-incendive : Class I, Division 2, Groups A, B, C, D

Hazardous locations when used with Icom BP-227FM battery pack. *Max. Temp. T3C at 40°C". The HM-138 is an approved accessory for use with Intrinsically Safe versions.

Icom Inc.

1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

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.

Unit 9, Sea St., Herne Bay,
Kent, CT6 8LD, 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
Himmelgeister Str. 100,
D-40225 Düsseldorf, Germany
Phone : +49 (0211) 346047
Fax : +49 (0211) 333639
E-mail : info@icom-europe.com
URL : <http://www.icomeurope.com>

Icom France s.a.s.

Zac de la Plaine,
1 Rue Brindejonec 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 : icompolkska@icompolkska.com.pl
URL : <http://www.icompolkska.com.pl>