# 

**AIS RECEIVER** 

# MXA-5000

# Advanced Collision Avoidance with Real-time Vessel Traffic Information



# **Dual Channel Receive Capability**

The MXA-5000 receives both Ch. 87B (161.975MHz) and Ch. 88B (162.025MHz) simultaneously. This dual channel receive makes the MXA-5000 more flexible for obtaining AIS information from AIS transponders that operate on only one channel. In addition, the MXA-5000 also receives both Class A and Class B AIS data.

# **Dual Mode Data Output**

The MXA-5000 has two data output. One is RS-422 for connection with equipment such as marine radar or GPS chartplotter. Those equipments which accept the VDM sentence format will show the AIS data on the display.

The second is RS-232C for PC connection. When using with AIS plotter software\*, the MXA-5000 allows you to monitor other vessel traffic on your PC.

\* Not supplied from Icom.

# Built-in Antenna Splitter to Share One Antenna

The MXA-5000 can be installed between a VHF antenna and a VHF radio. While receiving a VHF radio signal\*, the MXA-5000 receives AIS data. When you transmit from the connected VHF 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) and simplifies wiring.

### **Compact Size and Light Weight Body**

The MXA-5000 is only 132(W)×34(H)×155(D)\* mm and weighs only 400g\* for easy and flexible installation. \* Mounting bracket is not included.

The above background illustration shows AIS screen image only.

### What is AIS?

Icom's MXA-5000 AIS (Automatic Identification System) receiver will pick up real-time transmissions from vessels that use an AIS transponder. Such transponders are now required for SOLAS vessels by SOLAS regulations.

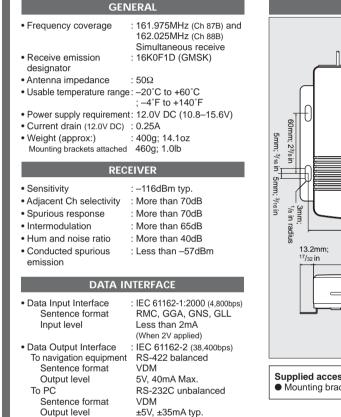
The AIS transponder sends accurate navigation information such as: Static Information — Vessel call sign, name, MMSI number, dimensions, type

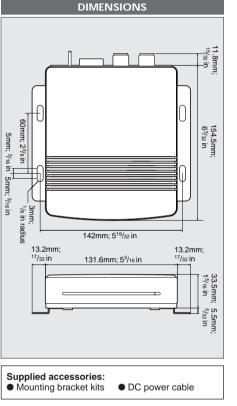
- Voyage-Related Information Draft, cargo type, destination and estimated time of arrival
- Dynamic Information Time in universal time, coordinated, latitude/longitude position, course over ground, speed over ground, heading, rate of turn, navigational status.

For more details, please refer to

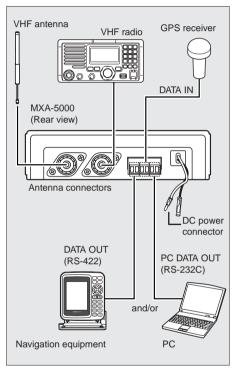
"http://www.navcen.uscq.gov/enav/AIS/default.htm"

## **SPECIFICATIONS**





### CONNECTION DIAGRAM



Measurements made in accordance with IEC 62287-1.

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

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