



# AIS RECEIVER



# The FA-30 delivers "Real-Time" AIS inf providing critical collision avoidance in

Acquisition and tracking of traffic around your vessel is absolutely necessary for safe and efficient navigation. FURUNO's FA-30 AIS Receiver provides navigational data about other AIS-equipped vessels, increasing your situational awareness and allowing you to navigate more safely.

The FA-30 incorporates real-time AIS information into your radar, chart plotter or a PC. AIS targets are displayed with SOG/COG vector, which aids you in recognizing possible collisions and grasp the navigational situation at a glance,

even in congested waterways. Closest Point of Approach (CPA) and Time to Closest Point of Approach (TCPA) can be computed and displayed on-screen.

RECEIVER

RADY-WHITE

The FA-30 outputs AIS data to NavNet 3D and NavNet vx2 series as well as to PC with AIS Viewer software via an Ethernet connection. The FA-30 can also be interfaced with a FURUNO radar or chart plotter via NMEA0183 format to supplement those systems.

# rmation to navigation systems formation in all weather conditions

## What is AIS?

The Automatic Identification System (AIS) enhances safe navigation by exchanging critical navigational data with nearby AIS-enabled targets. The system utilizes VHF broadcasts to handle information about nearby vessel traffic as well as aids-to-navigation. AIS data includes vessel's name, position and course/speed over ground, allowing you to predict the course changes of other vessels. And since AIS targets are constantly visible even when they are shrouded in fog, in darkness, behind capes, river bends and other obstructions, this system helps you to avoid dangerous collisions.

- Enhances safe navigation by receiving critical navigation information from local AIS-equipped vessels
- Vastly improves situational awareness in any weather conditions including dense fog, darkness, and congested waterways
- Dual parallel channel, "Full Duplex" receiver design receives AIS contact messages up to 100% more often than dual channel "Multiplexing" receivers
- High sensitivity, synthesized receiver automatically switches between international and local AIS channels
- > Optional amplified VHF splitter allows the use of a single antenna for VHF radio and AIS Receiver
- Network output to NavNet 3D/vx2 and PCs for added redundancy and installation flexibility
- Serial Output for integration with various radar and chart plotter systems
- AIS Viewer Software included for on-board PC or land based installations
- Bulkhead mounting and low power, flexible DC input voltage design for simplified installations

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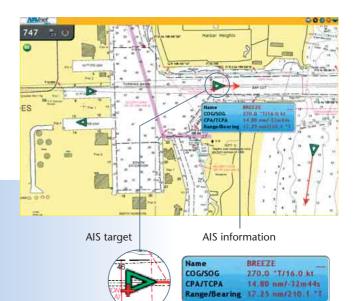
mormation to be received		
Dynamic Data	<ul> <li>Ship's position</li> <li>Coordinated universal time (UTC)</li> <li>Course over ground (COG)</li> <li>Speed over ground (SOG)</li> <li>Rate of turn (ROT)</li> <li>Heading</li> <li>Navigation status*</li> </ul>	
Static Data	<ul> <li>MMSI (Maritime Mobile Service Identity)</li> <li>IMO number*</li> <li>Ship's name</li> <li>Type of ship</li> <li>Call sign</li> <li>Length and beam</li> <li>Location of position-fixing antenna on the ship</li> </ul>	
Voyage Related Data	<ul> <li>Ship's draft*</li> <li>Hazardous cargo</li> <li>Destination and ETA*</li> </ul>	

### Safety-related messages

Information to be received

\* Class-A AIS only







When placing a cursor onto the AIS target, an AIS data window will pop up to display the following data of the target: Ship's name, COG, SOG, CPA, TCPA, Range and Bearing.

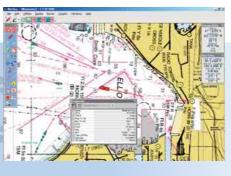


NavNet vx2 can also be interfaced to the FA-30



## AIS Viewer for PC (Standard supply)

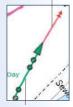
The software can be upgraded to a full version of MaxSea Navigation Software or MaxSea-NavNet Software.



## AIS info on NOAA chart

Rough raster chart is already installed. Also, additional charts can be installed into this viewer.

COG/SOG vector





Past track line

AIS target data for the selected vessel



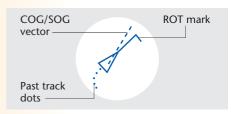
**Radar FR-8xx2 series** When interfacing with FR-8xx2 series, AIS interface IF-1500AIS is needed.



## AIS target symbol

COG/SOG vector changes its length according to SOG.

ROT mark is viewable when the target vessel sends the information. Past track dots enables you to evaluate the target's action.



AIS information

SPECIFICATIONS OF =\_\_\_

#### STANDARDS REFERRED

IMO Res. MSC.74 (69) Annex 3, ITU-R Rec. M.1371-2 IEC 61993-2 Ed.1 (Class-A AIS), IEC 62287-1 (Class-B CS-TDMA AIS), IEC 60945 Ed.4, IMO Res. A.917 (22)

#### **RECEIVING UNIT**

<b>RX</b> Frequency	156.025 MHz to 162.025 MHz
Channel Spacing	25 kHz/12.5 kHz

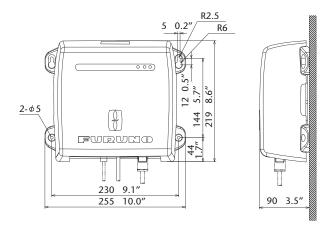
#### **INTERFACE**

**NMEA0183** ACK, ACA, AIQ, DTM, GBS, GGA, GLL, Input: GNS, HDT, OSD, RMC, VBW, VTG, DSC, DSE, ZDA, PFEC Output (38.4kbps): VDM, VDO, ACA, ACS, ALR, TXT

- Ethernet 10/100BASE-T
- **POWER SUPPLY** 12-24 VDC, 1.2-0.6 A

#### AIS RECEIVER

1.5 kg 3.3 lb



#### **ENVIRONMENT**

Temperature (IEC 60945 Ed.4)	-15 to +55 °C
Humidity (IEC 60945 Ed.4)	+40 °C, 93%RH
Waterproofing (IEC 60529)	IP20

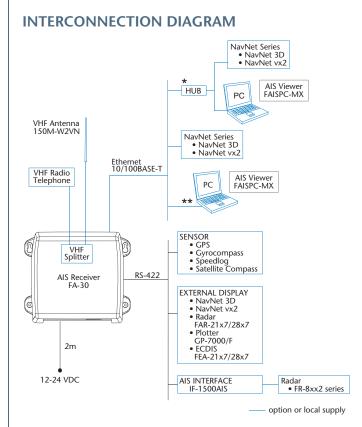
#### **EQUIPMENT LIST**

#### Standard FA 20

I. AIS RECEIVER FA-30	
with a Power/Serial combined cable	1 unit
2. AIS Viewer Software FAISPC-MX	1 set
3. Installation Materials and Spare Parts	1 set

#### Option

- 1. VHF Splitter Kit OP05-106
- 2. VHF Antenna 150M-W2VN
- 3. LAN Cable (2/10 m) for the connection with a PC
- 4. LAN Cable (1/5/10/20/30 m) for the connection with NavNet vx2



- When using a hub that is not compatible with AUTO MDI/MDI-X, a straight cable will be needed for connection. (Most hubs available are compatible with AUTO MDI/MDI-X).
- \*\* A crossing cable should be used.

#### TRADEMARK REGISTERED MARCA REGISTRADA SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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