



FA-30

AIS RECEIVER



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

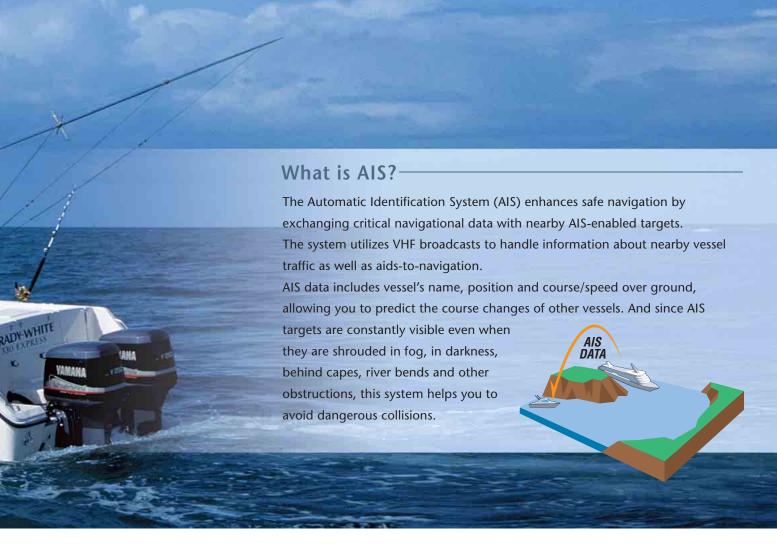
Acquisition and tracking of traffic around your vessel is absolutely necessary for safe and efficient navigation. FURUNO's FA-30 AIS Receiver provides navigational data about other AIS-equipped vessels, increasing your situational awareness and allowing you to navigate more safely.

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.

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



- ► 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

ormation to navigation systems of the systems of th



Information to be received

Dynamic Data

- Ship's position
- Coordinated universal time (UTC)
- Course over ground (COG)
- Speed over ground (SOG)
- Rate of turn (ROT)
- Heading
- Navigation status*

Static Data

- MMSI (Maritime Mobile Service Identity)
- IMO number*
- Ship's name
- Type of ship
- Call sign
- Length and beam
- Location of position-fixing antenna on the ship

Voyage Related Data

- Ship's draft*
- Hazardous cargo
- Destination and ETA*

Safety-related messages





AIS target

AIS information



Name COG/SOG BREEZE 270.0 *T/16.0 kt 14.80 nm/-32m44s 17.25 nm/210.1 "T



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 **MAV**net^{*}



AIS Viewer for PC (Standard supply)

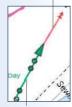
The software can be upgraded to a full version of MaxSea Navigation Software or MaxSea-NavNet Software.



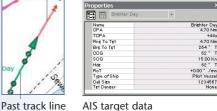
AIS info on NOAA chart

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

COG/SOG vector



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

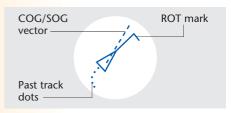


AIS information

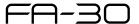
AIS target symbol

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.



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

156.025 MHz to 162.025 MHz **RX Frequency**

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

ENVIRONMENT

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

Waterproofing (IEC 60529) **IP20**

EQUIPMENT LIST

Standard

1. 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

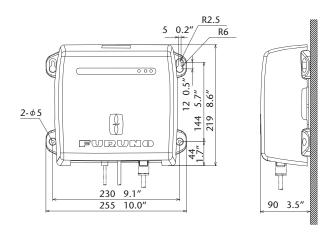
Option

- 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

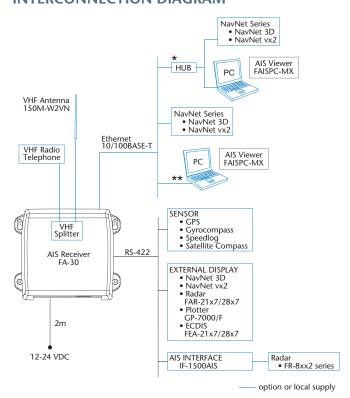
with NavNet vx2

AIS RECEIVER

1.5 kg 3.3 lb



INTERCONNECTION DIAGRAM



- 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

SOYINK

FURUNO ELECTRIC CO., LTD. FURUNO FRANCE S.A.

Nishinomiya, Hyogo, Japan Phone: +81 (0)798 65-2111 Fax: +81 (0)798 65-4200, 66-4622 **FURUNO U.S.A., INC.** Camas, Washington, U.S. Phone: +1 360-834-9300 Fax: +1 360-834-9400

FURUNO (UK) LIMITED Havant, Hampshire, U.K. Phone: +44 23 9244 1000

Fax: +44 23 9248 4316

Bordeaux-Mérignac, France Phone: +33 5 56 13 48 00 Fax: +33 5 56 13 48 01

FURUNO ESPAÑA S.A. Madrid, Spain Phone: +34 91-725-90-88 Fax: +34 91-725-98-97

FURUNO DANMARK AS

Hvidovre, Denmark Phone: +45 36 77 45 00 Fax: +45 36 77 45 01

FURUNO NORGE A/S

Ålesund, Norway Phone: +47 70 102950 Fax: +47 70 102951 **FURUNO SVERIGE AB**

Västra Frölunda, Sweder Phone: +46 31-7098940 Fax: +46 31-497093

FURUNO FINLAND OY Espoo, Finland Phone: +358 9 4355 670

Fax: +358 9 4355 6710

FURUNO POLSKA Sp. Z o.o.

Gdynia, Poland Phone: +48 58 669 02 20 Fax: +48 58 669 02 21

FURUNO DEUTSCHLAND GmbH

Rellingen, Germany Phone: +49 4101 838 0 Fax: +49 4101 838 111 LLC "FURUNO EURUS"

St. Petersburg, Russian Federation Phone: +7 812 767 15 92 Fax: +7 812 766 55 52



Catalogue No. N-867a World Wide

07105U Printed in Japan