SPECIFICATIONS OF



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

RECEIVING UNIT RX Frequency	156.025MHz to 162.025MHz	EQUIPMENT LIST
Channel Spacing	25kHz/12.5kHz	Standard 1. AIS Receiver FA-30
INTERFACE NMEA0183		with a Power/Serial combined cable 2. AIS Viewer Software FAISPC-MX
Input:	ACK, ACA, AIQ, DTM, GBS, GGA, GLL, GNS, HDT, OSD, RMC, VBW, VTG, DSC,	3. Installation Materials and Spare Parts
	DSE, ZDA, PFEC	Option
Output (38.4kbps):	VDM, VDO, ACA, ACS, ALR, TXT	1. VHF Antenna 150M-W2VN 2. LAN Cable (2/10m)
Ethernet	10/100BASE-T	3. VHF Splitter Kit
POWER SUPPLY	12-24 VDC, 1.2-0.6 A	





option or local supply

-15 to +55℃

IP20

+40℃, 93%RH

1 unit

1 set

1 set

* A crossing cable should be used.

ENVIRONMENT

Temperature (IEC 60945 Ed.4)

Humidity (IEC 60945 Ed.4)

Waterproofing (IEC 60529)

**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)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SOYINK 07045SS Printed in Japan



FA-30



NavNet vx2 can be interfaced with the FA-30





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AIS RECEIVER

Enhances safe navigation by receiving critical AIS target data and displaying it on a navigation system

Catalogue No. N-867

The FA-30 provides critical information that can be utilized for collision avoidance

- Enhances safe navigation by receiving critical navigation information from AIS-equipped vessels nearby
- Greatly improves the level of the situational awareness even in fog, darkness or congested waterways
- Dual channel receiver design provides automatic update of AIS information
- Optional VHF splitter allows the use of existing VHF antenna
- Outputs data to NavNet vx2 through Ethernet or Serial
- Flexible integration with various AIS compatible radar and chart plotters
- AIS Viewer software for PC (Standard supply)
- Sturdy design mounts easily on a bulkhead







AIS target AIS information

AIS target



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



Acquisition and tracking of vessels cruising around your vessel is absolutely necessary for conducting safe and efficient navigation. FURUNO's FA-30 AIS Receiver provides accurate data about other AIS-equipped vessels, allowing you to better operate and navigate your vessel.

The Automatic Identification System (AIS) improves the safety level of navigation by exchanging information about the status of AIS-targets nearby. The system utilizes VHF broadcasts to handle information about the surrounding area, including other vessels and aid-to-navigation, such as buoys.

The FA-30 incorporates real-time AIS information into radar, a chart plotter and other graphic display options such as a PC to improve situational awareness. Since AIS targets are constantly visible even when they are shrouded in fog, in darkness, behind capes, river bends and other obstructions, the FA-30 allows you to continually track AIS targets to help avoid a possible collision and grasp the situation even in congested waterways.

The received target data includes ship's position, course/ speed over ground, heading, rate of turn, etc. AIS targets on the chart plotter/radar screens are shown with SOG/COG vector, allowing you to predict the course changes of other vessels. Also, Closest Point of Approach (CPA) and Time to Closest Point of Approach (TCPA) can be computed and displayed on the radar/chart plotter screens.

The FA-30 outputs AIS data to the NavNet vx2 series or a PC with the AIS Viewer software through Ethernet. The FA-30 can also be interfaced with a FURUNO chart plotter and radar in NMEA 0183 format to supplement information to the onboard navigation system.





AIS Viewer for PC (Standard supply) The software can be upgraded to a full version of MaxSea Navigation

Additional charts can be installed into this viewer.

Information to be received

Software.

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 Call sign Length and beam Type of ship Location of position-fixing antenna on the ship



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



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.







Past track line

Properties	
E En Bratiler Day	
Name	Drighter Day
OPA	4.70 Nm
TOPA	+44s
Rng To Tet	4.70 Nm
Deg To Tgt	264° T
006	62 ° T
800	15.00 Kn
Hde	62 ° T
ReT	+0.00 * /mn
Type of Ship	Plipt Vessel
Call Sign	1234587
Tet Danear	Non-e

AIS target data for the selected vessel

Voyage Related Data Ship's draft* Hazardous cargo Destination and ETA*

Safety-related messages