SI-TEX®

SAS-300 Class B AIS System

- Complete information from all AIS vessels
- Radar Style Display
- Heads Up, North Up, and True Motion Chart Orientations
- Plot targets on detailed C-Map Charts
- Bright 6.5" TFT LCD Display
- 5 track memories totaling 50,000 pts
- Programmable CPA and TCPA alarms
- Display vessels by selectable color and icon
- Filter vessels by type of transmission
- Built in Class B AIS Transceiver
- Transceiver easily programmed via keypad
- Transmitter easily silenced via keypad

Displays the following information:

- Class A vessels
- Class B vessels
- Base Stations
- Aids to Navigation
- AIS SARTs
- Search & Rescue

The SAS-300 is a complete Class B AIS system designed for simple to use management, control and display of all AIS targets within VHF range. AIS data can be received from all types of Class B or Class A transponders, and can be displayed either on a "radar" type display, with chart overlay or without. The vivid graphics and the simple menu structure on the 6.5 inch, high resolution displays make the unit easy to use. The data is easy to access and the information easy to analyze, enabling the user to quickly move from screen to screen and gain access to the information specifically required.

- Tracks the movement of up to 5 vessels with 50,000 point track history and optional live details on individual vessels.
- Monitors position, speed and heading of vessels on a background chart or on detailed C-Map cartography (optional).
- Allows variable parameters to be set for CPA and TCPA alarms.
- Listing of all vessels with name, MMSI, range and bearing, with full details on each vessel, and instant GOTO function.
- Ability to display different types of vessels by color, and different types of transmission by icon shapes.
- Built-in 50 channel GPS receiver w/ external antenna included.

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SAS-300 Class B AIS System

GENERAL SPECIFICATIONS:

Power Supply: 10.8 to 35vdc

Power Consumption: 1 Amp

Display Screen: 6.5 inch color TFT LCD(750 X 480 pixels)

Operating Temperature Display Unit -15°C ~ 50°C Antenna Unit -25°C ~ 70°C

Performance Standard IMO Resolution MSC.112(73)

Back-up: SD Card (Option) C-Map Card Slot: C-Map Max C-Card

Data I/O: NMEA-0183

GPS RECEIVER TYPE:

L1 frequency(1575.42MHz), C/A code

50 Channel Parallel receiver

Accuracy Position 2.5m CEP DGPS/SBAS 2.0m CEP

Sensitivity Acquisition -140 dBm Tracking -149 dBm

Data Update Rate 1 Second

Support: DGPS, SBAS (WAAS, EGNOS, MSAS)

CLASS B AIS SPECIFICATION:

VHF Transceiver Transmitter

Dual Channel Receiver (One receiver time shared between AIS and DSC)

Frequency: 156.025 to 162.025 MHz in 25 kHz steps

Output Power 33dBm ± 1.5 dB (2 watts)

Channel Bandwidth 25kHz

Channel Step 25kHz

Modulation Modes

25kHz GMSK (AIS, TX and RX)

25kHz AFSK (DSC, RX only)

Bit rate 9600 b/s ± 50 ppm (GMSK)

1200 b/s ± 30 ppm (FSK)

RX Sensitivity

Less than -107dBm at 20% PER

Co-channel 10dB

Adjacent channel 70dB

IMD 65dB Blocking 84dB

Dimensions: W: 8.66"x H: 8.46" x D: 3.74"