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# [ AIS RECEIVER ] CYPHO-101



## Features

- Receive and monitor data of Class A and Class B AIS broadcast.
- Viewer program included with 2 viewing modes: Reader view and Alphanumeric view
- Advanced collision avoidance system effectively enhanced the situational awareness.
- Fully corresponds to the IMO issued technical specification.
- Dual channel receiver design.
- NMEA 0183 interface providing high compatibility with major AIS-ready navigation systems.
- PC / Laptop connecting enabled.
- Optional
  - GPS enabled.

## specification

### STANDARDS

IEC 60945

### VHF RECEIVER

Frequency Range	156.025 MHz ~ 162.025 MHz
Channel Bandwidth	25 KHz
Number of AIS Receivers	dual-channel parallel receiver
CH-1	default CH 87B (161.975MHz)
CH-2	default CH 88B (162.025MHz)
Message Format	AIS Class A & B messages
Data Rate	9600 bps / per channel
Sensitivity	PER ≤ 20% @ -107dBm
Max. Usable Sensitivity	-114 dBm

### GPS RECEIVER (Optional)

Receiving Channels	12 channels
Acquisition Sensitivity	-140 dBm
Tracking Sensitivity	-150 dBm
Position Accuracy	CEP (50%) 2.5m without SA
Output Rate	1 Hz

### POWER SUPPLY

Supply Voltage	24V DC (9V ~ 30V)
Power Consumption	≤ 3W

### LED DISPLAY

One Power On Indicator  
Two RX Receiving Indicators

### INTERFACES

NMEA0183	
RS-232 (Optional)	
USB (Optional)	
VHF Antenna Connector	Female Type M (Type N Optional)
GPS Antenna Connector (Optional)	Female TNC

### ENVIRONMENT

Operating Temperature	Antenna: -25°C~70°C Others: -15°C~55°C
Storage Temperature	-25°C~70°C
Humidity	Operating: 0~95RH at 40°C GPS Antenna operating: 100% Hermetically sealed VHF Antenna operating: 100% Hermetically sealed
Waterproof	IPX5

### PHYSICAL

Size in mm (w)	103 mm (140 mm with mounting)
Size in mm (h)	50 mm
Size in mm (d)	150 mm
Weight	< 1 kg