MARINE COMMUNICATION AND NAVIGATION EQUIPMENT

# AIS (Class-A)

AIS (Class-A) (1).Main performance 1.Characteristics 8800 is a universal ship bone AIS equipment, navigation and ship data information exchange with other ships and shore stati...

ISO9001 Supplier

Class Certificate

Export Supply




## Key Highlights

| | |
|---|---|
| **Category** | Marine Communication And Navigation Equipment |
| **Standard** | ISO |
| **Weight / Size** | MMSI no., vessel name, call sign, IMO number, ship type, ship size, GPS ... |
| **Certificate** | CCS |

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

## Technical Specifications

| | | | |
|---|---|---|---|
| **Category** | Marine Communication And Navigation Equipment | **Model / SKU** | AIS-Class-A |
| **Standard** | ISO | **Weight / Size** | MMSI no., vessel name, call sign, IMO number, ship type, ship size, GPS antenna position, Flag, etc.; |
| **Certificate** | CCS | **Warranty** | 12 Months unless specified otherwise |
| **Origin** | China | | |

**CONTENTS**

- AIS (Class-A)
- (2).Main Functions
- Main unit :
- (1).Main performance
- (3).Technical specifications

## AIS (Class-A)

## (1).Main performance

**1.Characteristics**
**8800 is a universal ship bone AIS equipment, navigation and ship data information exchange with other ships and shore stations**
**This device complies with A.694 (17), IEC62287-1 2006-03 standard requirements.**
**8800 consists of transceiver unit, display control unit, VHF antenna and GPS antenna and related accessories**
**Transceiver unit consists of 1 VHF transmitter, 2 TDMA receiver,**
**A channel 70 DSC receiver, an interface, communication processor, built-in GPS receiver.**
**2.Main information**
**AIS provided automatic exchange of navigational information with other ship or shore station to ensure the safety of navigation .**
**1)Static Data**
**Call Sign and Ship name**
**MMSI ( 9 digit ID)**
**IMO number (if any)**
**Length and Beam**
**Type of Ship**
**Location of GPS antenna position on ship**
**2)Dynamic Data**
**Ship's position**
**UTC (universal time coordinated)**
**COG (Course Over Ground)**
**SOG (Speed Over Ground)**
**Heading**
**Navigation status (manual input data / code)**
**Rate of Turn (if any)**
**3) Voyage data**
**Draught**
**Dangerous Cargo**
**Destination and ETA**
**4) Safety-related short message information**

## (2). Main Functions

**1.Automatic Identification System (AIS) function**
**Own ship static , dynamic and voyage data, send, receive and display information**
**Static data include: MMSI no., vessel name, call sign, IMO number, ship type, ship size, GPS antenna position, Flag, etc.;**
**Dynamic Data include: latitude and longitude, speed, heading, turn rate, navigational status and time;**
**Navigation information including: draft, type of dangerous cargo, port of destination and estimated time of arrival**
**Message to send, receive and display (including Chinese Information)**
**2.Target ship approaching alarm function**
**Distance setting how far target approaching to own ship ,**
**Approaching to own ship , LED flashing and visual alarm prompt**
**Approaching to own ship Voice broadcasting tips (0.1-6.0 nm can be set)**
**Approaching to own ship audio alarm sounding alert (0.1-6.0 nautical miles can be set)**
**3.Target ship information display function**
**List of shows target ship (range, azimuth and 9 ID no.)**
**Vector diagram shows the target ship (0.1 to 48 nautical miles range selection)**
**Enlarged to show the target ship data information**
**To target ship data information in detail**

**4.GPS navigation function**
**Ship's position, speed, heading, time, and date display;**
**Waypoints stored with the call;**
**Display Port of destination and azimuth , range , estimated time of arrival**
**Navigation arrival to destination if course deviated will alarms and tips;**

## (3). Technical specifications

**1.**

## Main unit :

**RF unit: 1 transmitter / 3 receivers**
**Frequency range: 156.025-162.025MHz**
**Channel bandwidth: 25KHz or 12.5KHz**
**Frequency tolerance: ± 1000Hz**
**Display screen: FSTN122 (W) × 92 (H) mm (6.0 inches)**
**Power Supply : 12V DC or 24V DC**
**Operating Temperature: -15 ℃ ~ +55 ℃**
**Dimensions: 235 (W) * 145 (H) * 70 (D) mm**

**2.AIS transmitter section**
**Output power : 2W or 12.5W changeable**
**Modulation spectrum : <-25dBw / <-60dBw**
**Modulation accuracy : <3400Hz (bit 0,1)**
**2400Hz±480Hz（bit 2,3）**
**2400Hz ± 240Hz (bit 4-199 or 00001111 bit format)**
**1740Hz ± 175Hz (0101-bit format)**
**Power comparison time : transmit delay: 2083us (normal transmit a period of time)**
**Increase the time: ≤ 313us**
**Decrease the time: ≤ 313us**
**Continuous transmit time ：≤323333us**
**Spurious emissions :-36dBm (9KHz-1GHz)**
**-30dBm（1GHz-4GHz）**
**3.AIS receiver section**
**Reference sensitivity :-107dBm (package error rate ≤ 20%)**
**High input tolerance :-77dBm (package error rate ≤ 2%)**
**Co-channel interference : 10dB ( package error rate ≤ 20%)**
**Adjacent channel selectivity : 70dB (package error rate ≤ 20%)**
**Spurious response to interference: 70dB (package error rate ≤ 20%)**
**Intermodulation response interference : 65dB (package error rate ≤ 20%)**

**Note: Specifications are subject to change without notice.**