CNFT®

MANUFACTURER OF MARINE COMMUNICATION EQUIPMENT AND INFORMATION TECHNOLOGY

CONTENTS

WE FOCUS ON MANUFACTURING

Marine communication and navigation,
satellite communication & positioning,
marine informatisation.

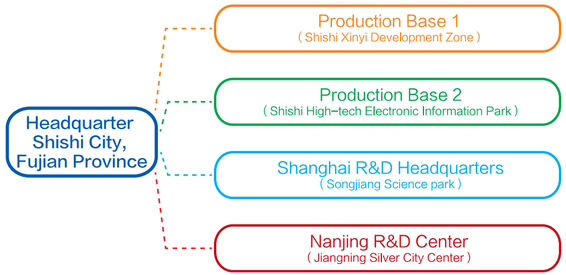
CHOOSING FEITONG ALLOWS YOU TO EXPLORE THE OCEAN WORLD WITH MORE ACCURACY!

Fujian Feitong Communication Technology Co., Ltd., referred to as "Feitong Technology", was established in May 2000. AFeitong Technology is a high-tech enterprise specializing in marine communication, navigation, and navigation aids, integrating R&D, manufacturing, sales, and operation services. Our company is not only an equipment provider, but also a marine information system integrator and marine communications. Solution provider. The headquarter is in Shishi City, Fujian Province, and has two subsidiaries, "Haotong (Shanghai) Technology Co., Ltd." and "Nanjing Junlu Technology Co., Ltd."; it has established marketing management departments in Yantai, Shandong, Zhoushan, Zhejiang, Zhuhai, Guangdong, and Nanjing, Jiangsu. From Liaoning to Hainan coastal and Yangtze River mainstream sales markets; set up overseas business departments in Shanghai and Kaohsiung, Taiwan to expand overseas markets; set up more than 250 product after-sales service outlets in coastal and riverside ports to form a comprehensive after-sales integrating service network.

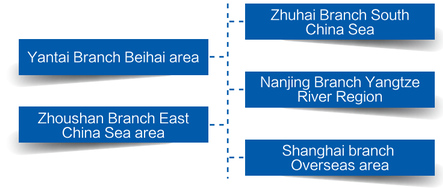
Feitong Technology has set up three R&D centers in Shishi, Shanghai and Nanjing, with complete skill personnel and equipment, complete and independent develop product of core technology property rights; the factory has a complete production chain and strict management, and has passed ISO9001 certification, China Classification Society (CCS)) Certified and recognized by the International Maritime Satellite, with leading technology research and development capabilities and flexible customized production capabilities.

Feitong Technology is continuously developing and expanding, and has been recognized as a national high-tech enterprise, a national "specialized, brand new" small giant enterprise, an innovative enterprise in Fujian Province, a leading enterprise in the marine industry in Fujian Province, and a civil division of China Beidou Navigation As a service operation unit, the business has been comprehensively upgraded from product manufacturing to system integration and platform operation, and the market share of products has continued to rise. Feitong Technology does not stop there, "Feitong Dream" is to be a "world-class marine communications enterprise with major, key and core technologies."

COMPANY BUSINESS DISTRIBUTION MAP



Feitong established five regional branches



Established nearly 250 product maintenance centers in major ports at home and abroad

FEITONG TECHNOLOGY SUBSIDIARIES

Shanghai R&D Headquarters

Haotong (Shanghai) Technology Co.,LTD
(Wholly owned subsidiary)

Main responsibilities: product research and development, demonstration, talent reserve, to provide technical and senior talent support and guarantee for the headquarters.

Holding subsidiary

Nanjing Junlu Technology Co.,LTD

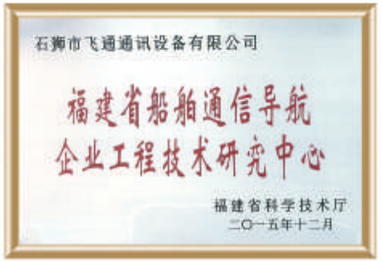
Main responsibilities: Radar, Underwater acoustic detection and navigation AIDS and other terminal products development and manufacturing

COMPANY HONOR

Feitong has a professional R&D team. After continuous efforts, it has been recognized by the society and the government. At the same time, it has won many honors. Now it has a complete set of military salaries. It is a second-level confidential unit, a Beidou navigation civilian-level service operation unit, and a national high-tech Enterprises, International Maritime Satellites and China Classification Society (CCS) approved units, Fujian Provincial Marine Industry Leading Enterprises, Fujian Provincial Innovative Enterprises, etc.

Honor to Prosper, Strength Witness

Honor is the recognition of the product and the enterprise, and it demonstrates the value of the brand. We strive for first-class quality with a scientific quality management system, cast Feitong brand, high quality and high efficiency, and demonstrate Feitong's corporate spirit.



BEIDOU SATELLITE SHIPBORNE TERMINAL SERIES

On July 31, 2020, China's Beidou Beidou-3 global satellite navigation system was fully completed, marking the beginning of a new era in Beidou satellite navigation and location services. The application of Beidou satellite terminals at sea will be the general trend, especially for Beidou satellites. The advantage of short message provides a comprehensive solution for ship emergency communication management.

FISHING BOAT BEIDOU MULTIFUNCTIONAL SHIPBORNE EQUIPMENT

FT-9200

THE MAIN FEATURES

- Color large-screen electronic chart navigation, supporting various navigation and navigation functions.
- Beidou/GPS dual-mode positioning, support ship position report, real-time ship dynamic retrieval.
- Beidou RDSS/mobile public network dual network joint complementary work.
- Manual one-key alarm activation and automatic release of the alarm when falling into the water, with a frequency of 1 minute/time.
- The outdoor unit is protected against disassembly and movement, supports three power supply modes of so lar energy + built-in battery + ship power, autonomous and uninterrupted work.
- Built-in large-capacity storage unit to automatically record the ship's voyage data.

THE LINEUP

FT-9200（Equipped with display control unit）

Public network frequency	Beidou RDSS+Mobile Public network	Waterproof level	IP67（External unit），IP54（Internal unit）
GNSS frequency	1575.42MHz(GPS)，1561.098MHz(Beidou)	Transmit power	≥40dBm
RDSS frequency	2491.75MHz（Rx） 1615.68MHz（Tx）	Transmit EIRP value	≤19dBw
Positioning accuracy	≤10m(Horizontal)，≤15m(Vertical)	Receiving sensitivity	≤-127.6dBm
First fix time	Cold start ≤33 seconds, hot start ≤ 2 seconds, recapture ≤ 2 seconds	Receive error rate	$\leq 1 \times 10^{-5}$
Operating Voltage	-25℃ ~ +55℃	Two-way zero	（1000000 ± 10）ns
Length of work	DC9-38V	First capture time on boot	≤2s
Waterproof level	>5 years (extreme no charge>3 months)	Loss of lock recapture time	≤1s
Display screen	12 " (TFT 600 × 800)		

FISHING BOAT BEIDOU POSITIONING EQUIPMENT

FT-9200-D

THE MAIN FEATURES

- Support solar + rechargeable battery power supply and large-capacity disposable battery power supply to meet the needs of different users.
- Support one-key call for help and automatic release of alarm when water enters 1.5-4 meters.
- Beidou private network and GSM public network dual system work.
- Using Beidou and GPS satellite dual system positioning to improve positioning accuracy.
- Terminal anti-closing, anti-disassembly, with forced disassembly alarm.
- The device can automatically and continuously report the ship's position according to the set time (default 10 minutes / time).
- Automatically record voyage data and support data upload.
- Real-time monitoring of battery power, working status and communication status, and upload regularly.

THE LINEUP

	FT-9200-D（Large capacity disposable battery）		FT-9200-D（Solar energy）
Battery capacity	152000mAh		8800mAh/152000mAh
Length of work	>6years		>6 years (more than 4 months without charging)
Public network frequency	Beidou RDSS+Mobile Public network	Transmit power	≥40dBm
RDSS frequency	2491.75MHz（Rx） 1615.68MHz（Tx）	Transmit EIRP value	≤19dBw
GNSS frequency	1575.42MHz(GPS),1561.098MHz(Beidou)	Receiving sensitivity	≤-127.6dBm
Positioning accuracy	≤10m	Receive error rate	$\leq 1 \times 10^{-5}$
First fix time	Cold start ≤ 33 seconds, hot start ≤ 2 seconds, recapture ≤ 2 seconds	Two-way zero	（1000000±10）ns
Operating temperature	-25℃~+55℃	First capture time on boot	≤2s
Waterproof level	IP68	Loss of lock recapture time	≤1s

FISHING BOAT FIXED BEIDOU POSITIONING EQUIPMENT

FT-9200-R/FT-9200-G
FT-9300-R/FT-9300-G

THE MAIN FEATURES

- Using mobile public network for data transmission, supporting Beidou short message communication.
- Support one-key distress alarm, dismantle and move alarm and tilt alarm.
- Beidou/GPS dual system positioning to improve positioning accuracy.
- Automatic report of ship dynamics, battery power and working status.
- Built-in memory chip, automatically record own ship's voyage data.
- Built-in wireless connection module, which can realize navigation, information display, Beidou SMS sending and receiving functions by connecting to the mobile phone APP.

THE LINEUP

	FT-9200-R / FT-9300-R		FT-9200-G / FT-9300-G
Communication frequency	Beidou RDSS+Mobile Public network		Mobile Public network
Transmit EIRP value	≤19dBW		
Battery capacity	76000mAh	Waterproof level	IP68
Battery Life	>6 years	Working frequency	L1:1575.42MHz，B1:1561.098MHz
Length of work	>3 years	Positioning accuracy	≤10m
Storage capacity	Continuously store own ship's trajectory data for more than 5 years	Receiving sensitivity	-133dBm (Tracking)，-130dBm (Capture)
Operating temperature	-25℃~+55℃	First fix time	Cold start≤12min, hot start≤1min, recapture≤1min

BEIDOU /AIS (CLASS B) MULTIFUNCTIONAL SHIPBORNE EQUIPMENT

FT-9300

THE MAIN FEATURES

- Beidou /AIS/ mobile public network multi-system joint work to achieve full sea area coverage.
- Beidou /GPS dual-mode positioning, supporting ship position and port entry and exit reports.
- Ship's intelligent anti-collision alarm, automatically switch between three modes: alarm, area alarm, and arrival status , and automatically broadcast Chinese / English voice alarms.
- It will automatically turn on VHF (channel 16) for emergency on-site two-way voice calls.
- The outdoor unit is equipped with anti-disassembly protection and falling water release device to support autonomous and uninterrupted work.
- Can expand crew swipe card, WI-FI connection, RFID and other functions.

THE LINEUP

FT-9300 (12")			
RDSS frequency	2491.75MHz (Rx) 1615.68MHz (Tx)	Display screen	TFT 600 × 800
AIS frequency band	156.025MHz ~ 162.025MHz	Transmit power	⩾40dBm
GNSS frequency	1575.42MHz(GPS),1561.098MHz(Beidou)	Transmit EIRP value	⩽19dBw
Number of VHF channels	88个	Receiving sensitivity	⩽-127.6dBm
Positioning accuracy	⩽10m(Horizontal),⩽15m(Vertical)	Receive error rate	$\leqslant 1 \times 10^{-5}$
Operating temperature	-25℃ ~ +55℃	Two-way zero	(1000000 ± 10) ns
Operating Voltage	DC9-38V	Transmit power	33dBm ± 1.5dB
Length of work	>5 years (extreme no charging>3 months)	Frequency error	± 500Hz
Waterproof level	IP67 (Extra-cabin unit) , IP54 (In-cabin unit)	Receiving sensitivity	-107dBm，PER < 20%

SHIPBORNE BEIDOU SATELLITE NAVIGATION SYSTEM RECEIVER

FT-3700

THE MAIN FEATURES

- Color large-screen electronic chart navigation, supporting various navigation and navigation functions.
- Position resolution is better than 0.001 minutes of latitude and longitude.
- Static and dynamic positioning accuracy reaches 10 m (95%).
- Can process DBDS data according to ITU-R and RTCM standards , can receive and process BDS positioning, speed measurement and timing signals, and correct ionospheric delay;
- Beidou short message communication function.
- Distress warning, dismantling and moving warning, tilt warning.
- Automatic monitoring report of working status.
- Solar energy + built-in battery + ship power three power supply methods, independent and uninterrupted work.
- Provide multi-channel data exchange and expansion interface, support GPS , heading and other information input

THE LINEUP

FT-3700 (8"/12"/15"/17")			
Frequency error	$\leqslant 5 \times 10^{-7}$	Capture	Cold start ⩽ 5 min , warm start ⩽ 1 min , recapture ⩽ 1 min
Positioning accuracy	⩽10m	Location update rate	⩽1Hz
Communication Interface	RS422/38400bps	Receive error rate	$\leqslant 1 \times 10^{-5}$
Waterproof level	IP45 (In-cabin unit) , IP67 (3700External unit)	Number of receiving channels	⩾6
Operating Voltage	DC9~38V	First capture time	⩽2s
Operating temperature	-20℃ ~+55℃	Recapture time	⩽1s
Receiving sensitivity	⩽-127.6dBm	Transmit EIRP value	⩽19dBw
Capture sensitivity	⩽-130dBm	Transmission signal carrier phase modulation deviation	⩽3°
Tracking sensitivity	⩽-133dBm	Frequency accuracy of transmitted signal	$\leqslant 5 \times 10^{-7}$
Number of receiving channels	⩾6	Two-way device delay	(1000000.0 ± 50.0) ns

SHIPBORNE BEIDOU SATELLITE NAVIGATION SYSTEM RECEIVER

FT-3600

THE MAIN FEATURES

- Color large-screen electronic chart navigation, supporting various navigation and navigation functions.
- Position resolution is better than 0.001 minutes of latitude and longitude.
- Static and dynamic positioning accuracy reaches 10 m (95%).
- It is capable of processing the differential BDS (DBDS) data input to the receiver according to the ITU-R standard and the corresponding RTCM standard.
- Able to receive and process BDS positioning, speed measurement and timing signals, and use the ionospheric model broadcasted by the satellite to the receiver to correct the ionospheric delay.

THE LINEUP

FT-3600 (8"/12"/15"/17")

Frequency error	⩽5×10^{-7}	Receiving sensitivity	⩽−127.6dBm
Positioning accuracy	⩽10m	Capture sensitivity	⩽−130dBm
Communication Interface	RS422/38400bps	Tracking sensitivity	⩽−133dBm
Waterproof level	IP45	Number of receiving channels	⩾6
Operating Voltage	DC9~38V	Capture	Cold start ⩽5 min, warm start ⩽1 min , recapture ⩽1 min
Operating temperature	−20℃ ~+55℃	Location update rate	⩽1Hz

BEIDOU EMERGENCY RADIO POSITION INDICATOR (BD-EPIRB)

FT-8100

THE MAIN FEATURES

- China's autonomous Beidou satellite navigation system ship emergency position indicator.
- Quick and effective Beidou global distress alarm.
- Underwater 2-4M automatic release alarm.
- The distress signal can be manually transmitted through simple operation.
- Multiple anti-false alarm protection system.
- Built-in GNSS receiver, which can improve the accuracy of alarm position.
- Five-year battery life, can be connected for more than 48 hours.

THE LINEUP

FT-8100

RDSS frequency	2491.75MHz (Rx) 1615.68MHz (Tx)	Strobe light	20次/min，brightness>0.75cd
GNSS frequency	L1:1575.42MHz，B1:1561.098MHz	Validity period of releaser	2 years
121.5MHz beacon carrier frequency	121.5MHz ± 50ppm	Frequency accuracy of transmitted signal	⩽5×10^{-7}
Positioning accuracy	BDS horizontal⩽25m，BDS vertical⩽30m，GPS horizontal ⩽13m	ransmit EIRP value	4dBW ~ 19dBW (Elevation20° ~90° Azimuth0° ~360°)
Operating temperature	−20℃~+55℃	Transmission signal carrier phase modulation deviation	⩽3°
Stored temperature	−30℃~+70℃	Transmit carrier suppression	⩾30dB
Battery runtime	> 48h	Two-way zero	(1000000 ± 10) ns
Waterproof level	IP67		

TIANTONG SATELLITE TERMINAL SERIES

The Tiantong-1 satellite mobile communication system is a satellite mobile communication system independently developed and constructed by China. It supports voice, short message and data services. It is known as the Chinese version of the maritime satellite. The application of the Tiantong satellite terminal at sea will greatly improve the ship's Emergency communication level.

SHIPBORNE TIANTONG SATELLITE TERMINAL

FT-9100

THE MAIN FEATURES

- High-gain omni-directional antenna does not need to point to the satellite, and the communication is stable.
- Three-proof, weather-resistant, anti-vibration design, sturdy and durable.
- One-click alarm in distress, support three-way phone call for help.
- WiFi , Bluetooth connection, support mobile phone control and call.
- Support the establishment of caller and callee of Tiantong / public network telephone, telephone code lock to prevent random dialing.
- SMS editing and sending and receiving, support SMS record deletion, reply and forwarding.
- The built-in antenna of the communication unit supports 50 meters display and control connection.
- Audio noise reduction, strong tone output to ensure clear calls.

THE LINEUP

FT-9100

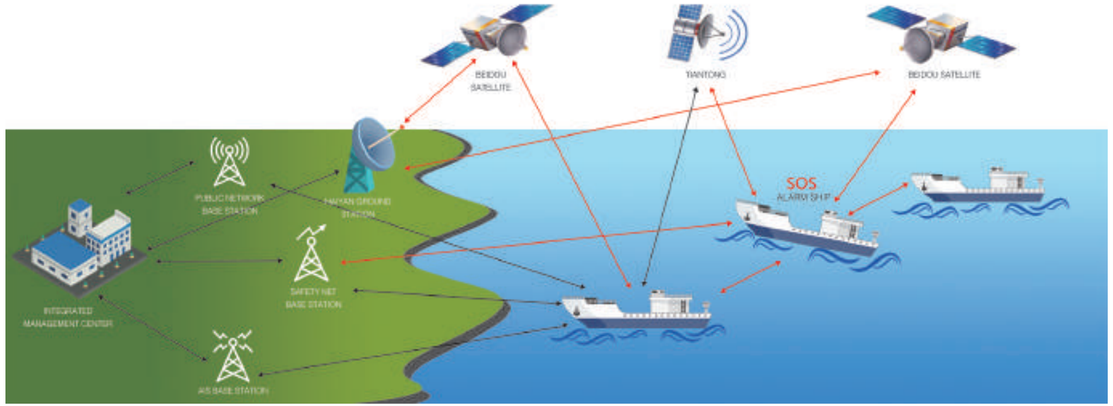
Tiantong Frequency	Tx:1980-2010MHz，Rx:2170-2200MHz	Start-up time	≤180s
GNSS frequency	1575.42MHz(GPS),1561.098MHz(Beidou)	Voice call connection rate	≥90%
Positioning accuracy	Horizontal ≤ 10m , vertical ≤ 15m	SMS success rate	≥90%
Display screen	5 -inch color screen, 272*480	Maximum audio output power	Handle answering, handset ≥ 80mW , impedance 8 Ω hands-free answer, speaker ≥ 3W , impedance 8 Ω
Keyboard	Full function + digital physical keyboard		
Operating Voltage	DC 13.8V	Audio delay	≤220ms
Operating temperature	-20℃ ~ +55℃	Send loudness rating (SLR)	8dB ± 3dB
Protection level	IP67 (Extra-cabin unit), IP54 (In-cabin unit)	Received loudness rating (RLR)	2dB ± 3dB

TIANTONG / BEIDOU /AIS INTEGRATED SHIPBORNE TERMINAL

FT-9000

THE MAIN FEATURES

- Tiantong / Beidou /AIS/ mobile public network multi-system communication.
- Support the establishment of caller and callee of Tiantong / public network telephone, telephone code lock to prevent random dialing.
- SMS editing and sending and receiving, support SMS record deletion, reply and forwarding.
- Beidou /GPS dual-mode positioning, supporting ship position and port entry and exit reports.
- One-click alarm in distress, support three-way phone call for help and distress SMS.
- The outdoor unit is equipped with anti-disassembly protection and falling water release device to support autonomous and uninterrupted work.
- WiFi , Bluetooth connection, support mobile phone control and call
- Ship intelligent anti-collision alarm, automatically broadcast Chinese / English voice alarm.
- It will automatically turn on VHF (channel 16) for emergency on-site two-way voice calls.
- Specific area monitoring, terminal and platform alarm prompts when entering.



THE LINEUP

FT-9000（12"）

Tiantong Frequency	1980-2010MHz（Rx）, 2170-2200MHz（Tx）	SMS success rate	≥90%
RDSS frequency	2491.75MHz（Rx）, 1615.68MHz（Tx）	Maximum audio output power	Handle answering, earpiece ≥ 80mW , impedance 8 Ω Hands-free answering, speaker ≥ 3W , impedance 8 Ω
AIS frequency band	156.025MHz ~ 162.025MHz		
GNSS frequency	1575.42MHz(GPS),1561.098MHz(北斗)	Audio delay	≤220ms
Number of VHF channels	88个	Transmit power	≥40dBm
Positioning accuracy	≤10m(Horizontal),≤15m(Vertical)	Transmit EIRP value	≤19dBw
Operating temperature	-25℃ ~ +55℃	Receiving sensitivity	≤-127.6dBm
Operating Voltage	DC9-38V	Receive error rate	$\leq 1 \times 10^{-5}$
Length of work	> 5 years (extreme no charging>4 months)	Two-way zero	（1000000 ± 10）ns
Waterproof level	IP67（Extra-cabin unit）, IP54（In-cabin unit）	Transmit power	33dBm ± 1.5dB
Start-up time	≤180s	Frequency error	± 500Hz
Voice call connection rate	≥90%	Receiving sensitivity	-107dBm，PER < 20%

SHIP AUTOMATIC IDENTIFICATION SYSTEM (AIS) TERMINAL SERIES

The automatic ship identification system AIS is a kind of ship navigation equipment. The use of AIS can enhance the measures to avoid collisions between ships, strengthen the functions of ARPA radar, ship traffic management system, and ship report, and can display all ship visualization on the electronic chart. Information such as course, route, and name can improve the function of maritime communication and provide a method for ships to carry out voice and text communication, which enhances the overall awareness of the ship.

GLOBAL SHIPBORNE CLASS-A AUTOMATIC IDENTIFICATION SYSTEM

FT-8800 (Class A)

THE MAIN FEATURES

- With Chinese / English operation display function.
- 6 –inch high–bright screen displays the ship's dynamic, static and voyage data.
- Multi–channel data interface, can provide radar, ECS, etc using AIS signal.
- The target ship approaching sound and light prompt, approaching distance can be set.
- Target ship information display function.
- Equipment self–check function.

THE LINEUP

FT–8800 (Class A)

Frequency Range	56.025–162.025MHz	Modulation spectrum	– 25 dBw (△fc < ± 10KHz) – 60 dBw (± 25 KHz < △fc < ± 6.25KHz)
Communication mode	CSTDMA		
Frequency error	± 500Hz	Reference sensitivity	– 107 dBm (PER≤20%)
Display screen	FSTN 122(W) × 92(H) mm (6.0 inch)	High input error	– 77dBm/–7dBm (PER≤1%)
Operating Voltage	DC12V/24V	Adjacent channel selectivity	70dB (PER≤20%)
Operating temperature	– 15℃ – +55℃	Spurious response interference	70dB (PER≤20%)
Carrier power	12.5W/1W	Transmitter spurious emission	–36dBm (9KHz–1GHz), –30dBm (1GHz–4GHz)

BEIDOU HIGH-PRECISION AUTOMATIC IDENTIFICATION SYSTEM MULTIFUNCTIONAL SHIPBORNE TERMINAL

FT-23 series

THE MAIN FEATURES

- Touch screen operation, friendly interface, support third-party APP extension.
- The Yangtze River Waterway Bureau releases official electronic waterway map data, which is automatically updated online.
- Built-in electronic schematic diagram of Yangtze River tributaries (Canal / Ganjiang / Xiangjiang / Hanjiang).
- High-precision Beidou positioning, AIS and 4G position difference, with sub-meter accuracy
- Integrate WI-FI , Bluetooth, 4G wireless broadband network, 5G can be upgraded.
- Intelligent collision avoidance alarm, continuous monitoring of DCPA and TCPA of surrounding ships.
- One-key alarm to receive maritime safety information such as Beidou weather and aviation police.
- VHF voice broadcast, you can listen to water level bulletins, weather forecasts, navigation notices, etc.
- Support various interface extension functions such as Beidou short message, depth sounder, gyro compass,remote audio and video applications, etc.

THE LINEUP

FT-23series（10.1"/12"/14"/15.6"/18.5"/21.5"）

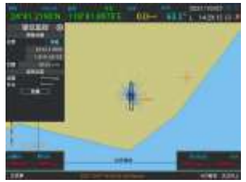
System	Android 5.1, support OpenGL ES 3.0 and OpenCL 1.1	Waterproof level	IP45
Targeting	Single Beidou high-precision positioning	AIS frequency band	156.025～162.025MHz
Wireless communication	WI-FI, Bluetooth, 4G (upgradable to 5G)	Default channel	AIS1：161.975MHz，AIS2：162.025MHz
Keyboard	Function key + number key	Transmit power	33dBm ± 1.5dB
Built-in camera	8 million pixels	Frequency error	± 500Hz
Interface	SD卡、USB、HDMI、RS-422	Receiving sensitivity	-107dBm，PER＜20%
Operating temperature	-15℃～+70℃	Error at high input level	-77dBm，PER＜2%；-7dBm，PER＜10%
Operating Voltage	DC13.8V	Transmitter spurious emission	＜-36dBm（9KHz…1GHz），＜-30dBm（1GHz…4GHz）

OTHER MODELS 2310/2316/2321

SCREEN CAPTURE

Electronic compass

Man overboard（MOB）



Berth monitoring

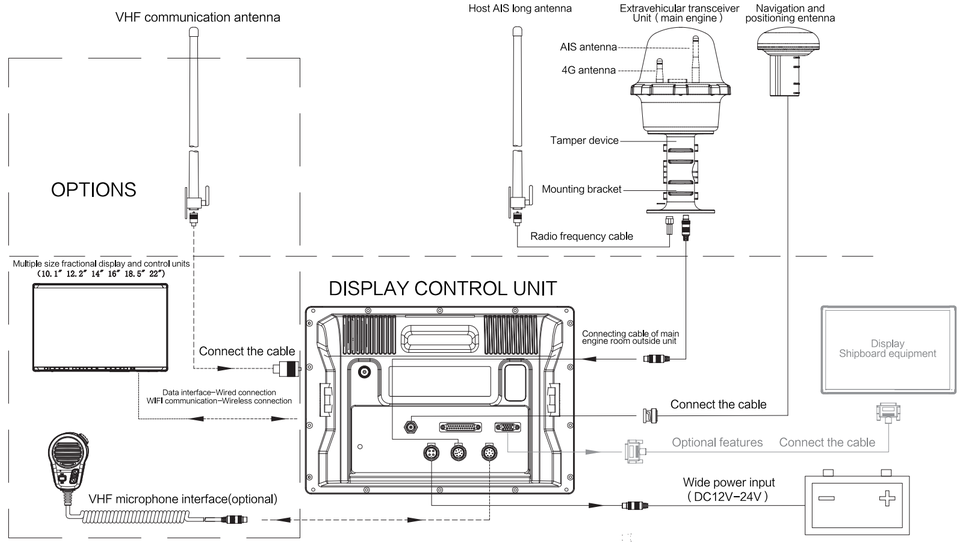
The ship's navigation data setting

CLASS-B AUTOMATIC IDENTIFICATION SYSTEM FOR PLUG-IN FISHING BOATS

FT-9700 (Plug-in Integrated)

THE MAIN FEATURES

- AIS/ mobile public network multi-system joint work to achieve full sea area coverage.
- Static information is only obtained through the ship's AIS card and cannot be tampered with. It meets the requirements of the " Technical Specification for Fishery Vessel Automatic Identification System (AIS) Class B Equipment".
- Ship intelligent anti-collision alarm.
- It is equipped with anti-dismantling protection, falling water release device, and ship tilt sensor.
- Support three power supply modes: solar energy + built-in battery + ship power, independent and uninterrupted work.
- Built-in large-capacity storage unit to automatically record the ship's voyage data.
- Automatic monitoring report of host battery, navigation status, communication status, etc.



THE LINEUP

FT-9700 (Integrated 10.1"/12"/14"/15.6"/18.5"/21.5")

Frequency Range	161.500～162.025MHz	Operating temperature	-20℃～+55℃
Default operating frequency	AIS1：161.975MHz、AIS2：162.025MHz	Waterproof level	IP67 (External host) , IP65 (In-cabin display control)
Channel spacing	25KHz	Frequency error	±500Hz
Operating mode	CSTDMA	Carrier power	33dBm±1.5dB
Positioning mode	Beidou+GPS	Receiving sensitivity	-107dBm，PER＜20%
Positioning error	≤10m	Error at high input level	-77dBm，PER＜2%；-7dBm，PER＜10%
First location time	≤50s	Spurious emission	9KHz~1GHz：＜-36dB；1GHz~4GHz：＜-30dBm

CLASS-B AUTOMATIC IDENTIFICATION SYSTEM FOR PLUG-IN FISHING BOATS

FT-9700-A（Insert card independent type）

THE MAIN FEATURES

- AIS / mobile public network multi-system joint work to achieve full sea area coverage.
- Static information can only be obtained through the ship's AIS card and cannot be tampered with. Identification System (AIS) Class B Equipment Technical Specifications Requirements.
- It is equipped with anti-dismantling protection, falling water release device, and ship tilt sensor.
- Support solar energy + built-in battery independent power supply, long-term uninterrupted work.
- Automatic monitoring report of battery power, navigation status, communication status, etc.
- Built-in large-capacity storage unit to automatically record the ship's voyage data.
- Built-in WIFI/ Bluetooth module, support APP navigation display operation.

THE LINEUP

FT-9700-A（Insert card independent type）

Output Power	2W	AIS Receiver channel / frequency	161.975,162.025MHz
DSC Class	Class B	Battery Capacity	17600mAh
Power Source	DC7.4V	Degree of Protection of Enclosure	IP67
Working mode	CSTDMA	Compass Safe Distance	140cm

CLASS-B AUTOMATIC IDENTIFICATION SYSTEM

FT-8700/FT-2200

THE MAIN FEATURES

- Color large-screen electronic chart navigation, single-key single-use operation is simple.
- Beidou / GPS dual mode positioning,improve positioning accuracy.
- Voice, light, screen text multiple warning prompts.
- List, radar chart, nautical chart, three target ship display modes.
- One-key alarm activation, support for distress alarm sending and receiving
- Crew identity authentication function, reserved second-generation ID card swiping interface.
- Connect the mobile APP via WiFi to realize display control operation, SMS sending and receiving.

产品阵容

FT-8700/FT-2200（6"/8"/12"）

AIS频段	156.025～162.025MHz	接收灵敏度	-107dBm，PER＜20%
工作模式	CSTDMA	在高输入电平的误差	-77dBm，PER＜2%；-7dBm，PER＜10%
工作温度	-15℃～+55℃	发射机杂散发射	＜-36dBm（9KHz…1GHz）＜-30dBm（1GHz…4GHz）
工作电压	DC12-24V	定位模式	北斗+GPS
防水等级	IP45	接收灵敏度	-133dBm (跟踪)，-130dBm (冷启动)
LCD亮度	≥500cd/m²	首次捕获时间	≤120s
发射功率	33dBm±1.5dB	定位误差	≤15m
频率误差	±500Hz		

CLASS- B AUTOMATIC IDENTIFICATION SYSTEM

FT-8700B (smart)

THE MAIN FEATURES

- Various information display such as electronic chart, tide table, perpetual calendar, etc.
- Beidou / GPS dual mode positioning,improve positioning accuracy.
- Ship identification function, effectively distinguishing smart AIS from other AIS.
- One–key alarm activation, support for distress alarm sending and receiving.
- Ship anti–collision intelligent alarm, automatically broadcast Chinese / English voice alarm.
- Emergency VHF call.
- Entry and exit warnings for specific waters, navigation channels, anchorages, and dangerous waters.
- Automatic storage of voyage data and surrounding ship dynamics.
- Expandable crew swipe card, WI–FI connection, Beidou short message and other functions.

THE LINEUP

FT–8700B (smart 8"/12")

AIS/VHF frequency band	156.025 ~ 162.025MHz	Transmitter spurious emission	＜–36dBm (9KHz…1GHz)，＜–30dBm (1GHz…4GHz)
Number of VHF channels	88个	Positioning mode	北斗+GPS
Operating mode	CSTDMA	Receiving sensitivity	–133dBm (跟踪)，–130dBm (冷启动)
Operating temperature	–15℃ ~ +55℃	First capture time	≤120s
Operating Voltage	DC12–24V	Positioning error	≤15m
Waterproof level	IP45	Transmit power	2W
Transmit power	33dBm ± 1.5dB	Modulation sensitivity	20mV ± 5mV
Frequency error	± 500Hz	Reference sensitivity	≤0.25uV (12dB SINAD)
Receiving sensitivity	–107dBm，PER＜20%	Audio output power	≥2W (8Ω)
Error at high input level	–77dBm，PER＜2%；–7dBm，PER＜10%	Audio distortion	≤7%

CLASS- B AUTOMATIC IDENTIFICATION SYSTEM

FT-86 series (dual mode positioning)

THE MAIN FEATURES

- Color large–screen electronic chart navigation, rich information display.
- China's autonomous Beidou satellite navigation system, single Beidou positioning.
- One–key alarm activation, support for distress alarm sending and receiving.
- Voice, light, screen text multiple warning prompts.
- List, radar chart, nautical chart, three target ship display modes.
- Automatic storage of voyage data and surrounding ship dynamics.

THE LINEUP

FT–86 series (dual mode positioning) (8"/12"/15"/17")

AIS frequency band	156.025 ~ 162.025MHz	Receiving sensitivity	–107dBm，PER＜20%
Operating mode	CSTDMA	Error at high input level	–77dBm，PER＜2%；–7dBm，PER＜10%
Operating temperature	–15℃ ~ +55℃	Transmitter spurious emission	＜–36dBm (9KHz…1GHz) ＜–30dBm (1GHz…4GHz)
Operating Voltage	DC12–24V	Positioning mode	Beidou
Waterproof level	IP45	Receiving sensitivity	–133dBm (Tracking)，–130dBm (Cold start)
LCD brightness	≥500cd/m2	First capture time	≤120s
Transmit power	33dBm ± 1.5dB	Positioning error	≤15m
Frequency error	± 500Hz		

FIXED POSITIONING EQUIPMENT FOR SMALL FISHING BOATS

FT-1600-D

THE MAIN FEATURES

- Fixed installation, with anti–disassembly and removal protection measures, background monitoring.
- AIS/ mobile public network combination work to achieve full sea coverage.
- Built–in lithium battery + solar power supply, uninterrupted work.
- Connect to mobile phone APP via WiFi to realize information display, navigation and other functions.
- With one–key alarm, intelligent anti–collision alarm function.
- Automatic report of ship dynamics and equipment operating status.
- Automatically record own ship's track and surrounding AIS dynamic and static information.

THE LINEUP

FT–1600–D

Public network frequency	AIS private network+mobile public network	Operating temperature	–25℃～+55℃
AIS frequency band	156.025～162.025MHz	Waterproof level	IP68
GNSS frequency	1575.42MHz(GPS),1561.098MHz(Beidou)	Transmit power	33dBm±1.5dB
Positioning error	≤15m	Frequency error	±500Hz
Operating mode	CSTDMA	Receiving sensitivity	–107dBm，PER＜20%
Power supply	Lithium battery + solar	Error at high input level	–77dBm，PER＜2%；–7dBm，PER＜10%
Length of work	>5 years （extreme no charging>3 months）	Transmitter spurious emission	＜–36dBm（9KHz…1GHz），＜–30dBm（1GHz…4GHz）

PORTABLE (CLASS B) AIS SHIPBORNE EQUIPMENT

FT-1600（portable）

THE MAIN FEATURES

- Waterproof design, easy to install, easy to carry, easy to operate.
- Compatible with fishery AIS（Type B）system and maritime AIS（Type A）system.
- AIS / mobile public network combination work to achieve full sea coverage.
- With mobile phone APP software, providing navigation data display.
- The ship's intelligent anti–collision alarm, the distance to the alarm can be set.
- One–key distress alarm with protection measures against misoperation.
- The warning light flashes and the voice broadcast prompt.
- Automatically record own ship's track and surrounding AIS dynamic and static information.
- Power–on self–inspection, timing power and positioning status detection, sound and light prompt of self–inspection results.

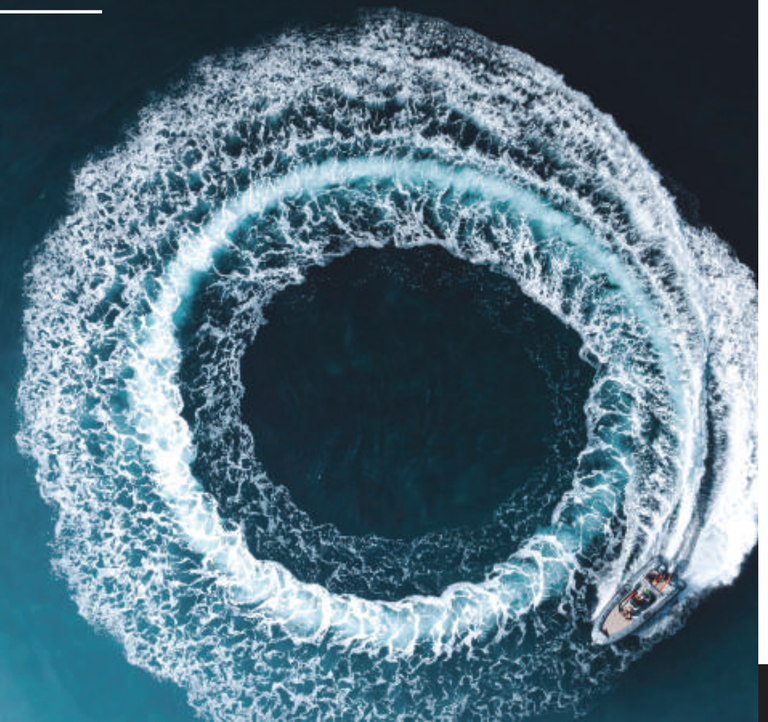
THE LINEUP

FT–1600（portable）

Public network frequency	850/900/1800/1900MHz	Waterproof level	IP67
AIS frequency band	156.025～162.025MHz	Transmit power	33dBm±1.5dB
GNSS frequency	1575.42MHz(GPS),1561.098MHz(Beidou)	Frequency error	±500Hz
Positioning error	≤15m	Receiving sensitivity	–107dBm，PER＜20%
Operating mode	CSTDMA	Error at high input level	–77dBm，PER＜2% –7dBm，PER＜10%
Power supply	Lithium battery DC7.2V		
Continuous use time	≥128h	Transmitter spurious emission	＜–36dBm（9KHz…1GHz） ＜–30dBm（1GHz…4GHz）
Operating temperature	–30℃～+55℃		

GMDSS COMMUNICATION EQUIPMENT SERIES

The GMDSS system refers to the maritime radio communication system proposed and implemented by the International Maritime Organization (IMO) for maritime distress, safety and daily communications. It is composed of the International Mobile Satellite Communication System, the Low Polar Orbit Search and Rescue Satellite System and the Very High Frequency (VHF), Medium / High Frequency (MF/HF) Ground Frequency Communication System, etc., with distress warning, search and rescue coordination communication, rescue on-site communication, Maritime safety information broadcast, position finding, daily communication, and bridge-to-bridge safety avoidance communication functions.



SHIPBORNE MEDIUM AND HIGH FREQUENCY (MF HF) DSC RADIO DEVICE

FT-7500

THE MAIN FEATURES

- Large screen, single-key single use, intuitive display and easy operation.
- Built-in 25 domestic shore station channels, which can freely switch user channels, ITU international channels and fishery shore station modes.
- Daily voice calls, compatible with other ordinary shortwave radio stations, providing SSB / AM / CW / FSK / AFSK operation modes.
- Support selective call, group call, sea call, all call and other digital selective calls.
- Send and receive distress alarms, and automatically print the received distress messages.
- Rolling, manual, timing, ship position report, built-in GPS module.
- Quickly, automatically and manually perform antenna tuning.
- Audio recognition squelch control.

THE LINEUP

FT-7500			
Working frequency	Tx：1.6-27.5MHz，Rx：0.5-29.9999MHz	Residual frequency deviation	≤-40dB
Frequency of distress	2182kHz,4125kHz,6215kHz，8291kHz,12290kHz,16420kHz	Parasitic radiation	≤0.25μW
Frequency tolerance	≤±10Hz	Sensitivity	≤2μV(SINAD=20dB)
Type of launch	J3E，H3E，F1B	Audio output level	Speaker≥2W
Operating Voltage	DC12V	Spurious response rejection ratio	≥60dB
Operating temperature	-15℃~+55℃	Audio intermodulation	≤-25dB
Antenna impedance	50Ω	Conducted spurious emissions	9kHz-2GHz：≤2nW，2GHz~4GHz：≤20nW
Transmit power	≤150W	Call sensitivity	＜0 dBμV
Carrier suppression	J3E≥40dB，H3E≥36dB	Nominal modulation rate	50Hz±30ppm
Microphone sensitivity	-9dB~3dB	Residual modulation	≤-26dB

VHF (INCLUDING A LEVEL A DSC) RADIO

FT-805

THE MAIN FEATURES

- Includes U.S., Canada, international channels and 10 weather channels.
- It has dual–frequency and tri–frequency on–duty, and 70 channel (DSC) is continuously on–duty.
- Support selective call, group call, sea call, all call and other digital selective calls.
- Distress call, confirmation, rebroadcast call.
- Ship position request, ship position report.
- FM (88–108MHz) radio.
- Automatically record DSC transmitted and incoming messages.

THE LINEUP

FT–805

Frequency Range	Tx：156.025–157.425 MHz，Rx：156.025–163.275MHz	Conducted spurious emissions transmitted to the antenna	150 kHz~1 GHz：≤0.25 μW (–36 dBm) 1 GHz ~2 GHz：≤1 μW (–30 dBm)
Modulation	FM (16K0G3E) ，DSC (26K0G2B)		
Frequency error	≤ ± 1.5 kHz	Transmitter residual modulation	≤–40 dB
Operating Voltage	DC13.8V (± 15%)	Rated audio output power	≥2 W
Antenna impedance	50Ω	Maximum usable sensitivity	≤ +6 dB μV(e.m.f)
Output impedance	(Audio) 8Ω	Adjacent channel selectivity	≥70 dB
Input resistance	(Microphone) 2KΩ	Spurious response suppression	≥70 dB
Frequency error	≤ ± 1.5 kHz	Intermodulation response	≥70 dB
Carrier power	25 W/1 W	Block	≥ +90 dB μV
Maximum allowable frequency deviation	≤ ± 5 KHz	Conducted spurious emissions transmitted to the antenna	9 kHz ~ 2 GHz：≤2 nW(–57 dBm)
Harmonic distortion	≤10%	Receiver noise level	≤–40 dB

VHF (INCLUDING A LEVEL A DSC) RADIO

FT-806

THE MAIN FEATURES

- Includes U.S., Canada, international channels and 10 weather channels.
- It has dual–frequency and tri–frequency on–duty, and 70 channel (DSC) is continuously on–duty.
- Support selective call, group call, sea call, all call and other digital selective calls.
- Distress call, confirmation, rebroadcast call.
- Ship position request, ship position report.
- FM (88–108MHz) radio.
- Automatically record DSC transmitted and incoming messages.

THE LINEUP

FT–806

Frequency Range	Tx：156.025–157.425 MHz，Rx：156.025–163.275MHz	Conducted spurious emissions transmitted to the antenna	150 kHz~1 GHz：≤0.25 μW (–36 dBm) 1 GHz ~2 GHz：≤1 μW (–30 dBm)
Modulation	FM (16K0G3E) ，DSC (26K0G2B)		
Frequency error	≤ ± 1.5 kHz	Transmitter residual modulation	≤–40 dB
Operating Voltage	DC13.8V (± 15%)	Rated audio output power	≥2 W
Antenna impedance	50Ω	Maximum usable sensitivity	≤ +6 dB μV(e.m.f)
Output impedance	(Audio) 8Ω	Adjacent channel selectivity	≥70 dB
Input resistance	(Microphone) 2KΩ	Spurious response suppression	≥70 dB
Frequency error	≤ ± 1.5 kHz	Intermodulation response	≥70 dB
Carrier power	25 W/1 W	Block	≥ +90 dB μV
Maximum allowable frequency deviation	≤ ± 5 KHz	Conducted spurious emissions transmitted to the antenna	9 kHz ~ 2 GHz：≤2 nW(–57 dBm)
Harmonic distortion	≤10%	Receiver noise level	≤–40 dB

VHF (INCLUDING CLASS-D DSC) RADIO EQUIPMENT

FT-805B

THE MAIN FEATURES

- Includes U.S., Canada, international channels and 10 weather channels.
- It has dual-frequency and tri-frequency on-duty, and 70 channel (DSC) is continuously on-duty.
- Support selective call, group call, sea call, all call and other digital selective calls.
- Distress call, confirmation, rebroadcast call.
- Ship position request, ship position report.
- FM (88-108MHz) radio.
- Automatically record DSC transmitted and incoming messages.

THE LINEUP

FT-805B			
Frequency Range	Tx：156.025-157.425 MHz，Rx：156.025-163.275MHz	Conducted spurious emissions transmitted to the antenna	150 kHz~1 GHz：≤0.25 μW (-36 dBm)
Modulation	FM (16K0G3E) , DSC (26K0G2B)		1 GHz ~2 GHz：≤1 μW (-30 dBm)
Frequency error	≤ ± 1.5 kHz	Transmitter residual modulation	≤-40 dB
Operating Voltage	DC13.8V (± 15%)	Rated audio output power	≥2 W
Antenna impedance	50Ω	Maximum usable sensitivity	≤ +6 dB μV(e.m.f)
Output impedance	(Audio) 8Ω	Adjacent channel selectivity	≥70 dB
Input resistance	(Microphone) 2KΩ	Spurious response suppression	≥70 dB
Frequency error	≤ ± 1.5 kHz	Intermodulation response	≥70 dB
Carrier power	25 W/1 W	Block	≥ +90 dB μV
Maximum allowable frequency deviation	≤ ± 5 KHz	Conducted spurious emissions transmitted to the antenna	9 kHz ~ 2 GHz：≤2 nW(-57 dBm)
Harmonic distortion	≤10%	Receiver noise level	≤-40 dB

NAVTEX RECEIVER

FT-7600/FT-7700

THE MAIN FEATURES

- NAVTEX information reception, storage, and rejection.
- Various self-check functions.
- Friendly man-machine interface.
- Various alarm sound and light prompt function.
- Can receive navigational warning messages in Chinese.
- Dual channel simultaneous reception, support long character information.
- Large-screen LCD display, convenient for users to choose functions.

THE LINEUP

	FT-7600		FT-7700
Receive frequency	518kHz、486kHz、4209.5kHz		518kHz、490kHz、4209.5kHz
Display unit	6 " (320 × 240 LCD screen)	Input interface	INS port、NMEA communication protocol
Operating mode	FIB(FSK: 1700Hz ± 85Hz)	Output Interface	INS port (print output (RS232). 4800bps)
Receiving sensitivity	≤2uV e.m.f(50Ω), BER≤4%	Power supply	DC 12V ± 15%
Spurious emission	≤-4nW(50Ω)	Operating temperature	-25℃-+55℃
Storage capacity	2M byte (4*256*2000 characters)	Protection level	IP56

LIFEBOAT RAFT PORTABLE TWO-WAY VHF WIRELESS PHONE

FT-2800/FT-2900

THE MAIN FEATURES

- Using a microcomputer to control the synthesizer to ensure high frequency stability on each channel.
- Up to 88 working channels.
- Noise suppression, clear call.
- External microphone speaker.
- Friendly man-machine interface, easy to use by non-professionals.
- Small and flexible, easy to identify in the dark.
- Fully sealed and waterproof, strong adaptability to environment, long service life.
- The battery can work continuously for more than 72 hours.

THE LINEUP

FT-2800/FT-2900

Frequency Range	Tx：156.025-157.425MHz Rx：156.050-163.275MHz	Modulation limit	≤ ± 5KHz
Frequency interval	25kHz	Transmitter spurious emissions	≤0.25 μ W (150 kHz-1 GHz) ≤1 μ W (1 GHz-2 GHz)
Modulation	FM(16KOG3E)	Transmitter's residual modulation	≤-40dB
Operating Voltage	DC 6.4V	Maximum usable sensitivity	≤+6dB μ V
Operating temperature	-15℃-55℃	Rated audio power	Speaker：≥200mW，Earphone：≥1 mW
Protection level	IP67	Audio distortion	≤7%
Carrier power	2W/1W	Receiver spurious emission	150 kHz~1 GHz≤-57dBm 1 GHz~2 GHz≤-37dBm
Frequency error	± 1.5 KHz		
Modulation sensitivity	20 ± 10mV	Signal-to-noise ratio	≤-40 dB

406MHZ SATELLITE EMERGENCY RADIO BEACON

FT-8200/STB910

THE MAIN FEATURES

- Quick and effective global distress alert.
- Easy installation and operation, fully sealed and waterproof, light and compact.
- Underwater 2-4M automatic release alarm, Sound and light operation prompt.
- Simple and intelligent self-check function.
- Multiple anti-false alarm protection system.
- Built-in GPS receiver, which can improve the accuracy of alarm location.
- Five-year battery life, can work continuously for more han 48 hours.

THE LINEUP

FT-8200/STB910

Operating temperature	-20℃-+55℃	Modulation	AM (3K20A3X)
Stored temperature	-30℃-+70℃	Modulation duty cycle	33%-55%
Operation hours	> 48h	Transmit duty cycle	98% (continuous launch)
Battery	Li / SOCl2，valid for 5 years	Receiver type	50 channels，L1 frequency point，C/A code
Strobe light	24 times /min (brightness> 0.75cd)	Receiving sensitivity	-162dBm(tracking) -148dBm(cold start)
Shell material	ABS plastic		
Transmit frequency	406.04OMHz ± 1kHz	Positioning accuracy	≤15m
Output Power	5W(37dBm) ± 2dB	Positioning capture time	≤32s(cold start) 5s(assisted start)，1s(recapture)
Transmission time	Long message：520ms ± 1% Short message：440ms ± 1%		
		Release depth	2-4m
Repetition period	47.5s-52.5s	Operating temperature	-30℃-+65℃
Transmit frequency	121.5MHz ± 3kHz	Storage validity period	3 years after production date
Output Power	17dBm ± 3dB	Use validity period	2years

SEARCH AND RESCUE RADAR TRANSPONDER

FT-501

THE MAIN FEATURES

- Using X –band small signal detection technology, waveform generation technology, high–efficiency power conversion realization.
- Low power consumption, good electromagnetic compatibility, mature technology, reliable performance.
- Through the navigation radar control and measurement pulse action of the search and rescue ship or helicopter, the signal emitted by SART can show the exact position of SART on the navigation radar screen of the search and rescue ship or helicopter.
- It can enable survivors holding SART or distress ships or boats equipped with SART to find search and rescue ships or helicopters approaching them.
- Multiple protection systems to prevent false alarms.
- Can withstand long–term exposure to aging in the sun.
- Smooth exterior structure, high brightness and easy to find.

THE LINEUP

	FT–501
Operating frequency range	9200MHz–9500MHz
Sweep form	Sawtooth waveform Forward period：7.5us ± 1us， Retrograde period：0.4us ± 1us
Pulse duration	100us, sweep 12 times
Equivalent isotropic radiated power	≥400mW (26dBm)
Chronological time	≤0.5us
Receive effective sensitivity	≤–50dBm
Recovery time for receiving subsequent triggers	≤10us
Antenna	Balance beam omnidirectional < ±2dB vertical beam ±12.5
Shell color	Yellow / orange
Operating voltage	Lithium battery DC7.2V, 13500mAh
Temperature condition	Working temperature: –20° C ~55° C，storage temperature: –30° C ~65° C
Volume	90 (D) ×375 (L) mm
Weight	1kg

LIFEBOAT SEARCH AND RESCUE AIS TRANSPONDER

FT-9500/STB-710

THE MAIN FEATURES

- Using GMSK modulation, embedded processing platform, time division multiple access and other technologies.
- Based on LAS technology, adopting modular design, low power consumption, small size, light weight and high reliability.
- When the ship is in distress, the search and rescue AIS transponder can send the position information of the crew in distress to the AIS equipment, thereby greatly improving the survival probability of the crew in distress.
- Non–professionals can easily start.
- Multiple protection systems to prevent false alarms.
- Can withstand long–term exposure to aging in the sun.
- Smooth exterior structure, high color brightness, easy to find.

THE LINEUP

	FT–9500/STB–710
AIS data information	AIS1 161.975MHz；AIS2 162.025MHz
GPS receiver frequency	1.57542GHz
Frequency error	≤ ±0.5KHz
Transmit power	1W
Message format	MSG1、MSG14
Spurious emission	≤25μW
Modulation	GMSK
Antenna	Vertical antenna
Battery	Li/SOCl2，valid for 4 years
Battery operating cycle	≥96h
Operating temperature	–20℃ ~ +55℃
Storage temperature	–30℃ ~ +70℃
Weight	720g
High	31.6CM

SHIP NAVIGATION AIDS SERIES

The equipment used for observation, communication and navigation during the voyage of a ship. Including general aviation equipment, radio equipment and electronic aviation equipment.

GPS RECEIVER

FT-8500

THE MAIN FEATURES

- Large 8 –inch color screen, intuitive and clear display.
- National coastline (electronic chart) and place name tag information display.
- Support various navigation and navigation functions.
- Large storage capacity and chart memory.
- Multi–channel standard signal input / output, sentence / baud rate can be set.
- Provide AIS data information display operation interface.
- Support embedded / desktop / ceiling installation.

THE LINEUP

FT–8500

Display screen	Color 8.0inch LCD screen	Receive error rate	①≥157.6dBW(elevation angle 30° –75°) bit error rate of received signal ≤1×10⁻⁵ ②≥154.6dBW(elevation angle 10° –29°) bit error rate of received signal ≤1×10⁻⁵
Receive working frequency signal	L1：1575.42MHz		
First capture time on boot	≤2min		
Loss of lock recapture time	≤2min	Pseudocode tracking random error	≤12.5ns
Capture sensitivity	≤–136dBm	Data interface format	NMEA 0183(4800 baud rate)
First fix time	≤2min	Speed range	1–200km/h
Positioning accuracy	Areas with calibration stations≤20meters(1σ) areas without calibration stations≤100meter(1σ)	Speed measurement accuracy	0.2m/s
		Operating Voltage	DC13.8V±15%
Positioning elevation	>5° (Possible to locate and automatically update data)	Working temperature	–15℃~+55℃

NAUTICAL RADAR

JMR4012 THE MAIN FEATURES

- 12.1 inch color LED LCD display.
- 4 feet (1.2 meters) 4KW high performance crack waveguide.
- High–performance processing system.
- Advanced auto–tuning function to help get the best echo image.
- Has true motion echo trailing.
- Automatic radar plotting ARPA , can automatically capture and track 20 targets.
- AIS signal access function, can display up to 100 targets.
- High resolution at close range, no loss of characteristics for long–range targets.

JMR6015 THE MAIN FEATURES

- 15 –inch color LED LCD screen.
- 6 feet (1.8 meters) 6KW high performance slit waveguide antenna Ultra–wide power input startup module.
- Advanced automatic tuning function, you can also manually adjust the tuning, gain, rain, snow, and ocean waves to get the best echo image.
- Has true motion echo trailing.
- Automatic radar plotting ARPA , can automatically capture and track 50 targets.
- AIS signal access function, can display up to 200 targets.
- High resolution at close range, no loss of characteristics for long–range targets.
- Special magnifying glass function, which can magnify any echo locally twice.

THE LINEUP

	JMR4012		JMR6015
Screen size	12 –inch color LED display		15.4 inch color LED display
Resolution	800X600		1024X768
The antenna size	4ft (1.4m)		6ft (2.0m)
Interface	GPS/AIS/ compass input		GPS/AIS/compass, etc. input, VDR/ARPA, etc. output interface
Peak power	4KW		6KW
Power supply	DC24V(–25%/+30%)	Noise index	Better than 6dB
Operating temperature	Host: –10–50° C; Transceiver and antenna: –20–55° C	IF STC	0dB～40dB
Humidity	10–90% relative humidity	Range resolution	25m
Range	Minimum 0.125 nautical miles, maximum 96 nautical miles	Angle resolution	2.1°
VRM circle, EBL line	2	Working band	X band(9.4GHz)
Power supply	DC24V,250W	Horizontal beam width	0.9° ~1.3° (±0.1°)
Frequency	9410MHz±30MHz	Vertical beam width	20° ~28°
Pulse Width	0.3us	Sidelobes within 10 degrees	–24dB~–22dB
Repeat frequency	1500Hz	10degrees outer side lobe	–30dB
IF frequency	60 MHz	Gain	28dB~31dB

INNER RIVER ECHO SOUNDER

DS606-2

THE MAIN FEATURES

- Low cost, paperless, no pollution.
- High precision and high reliability — different from those using motor belts and stylus paper depth sounder.
- High–contrast 7 –inch LED LCD display.
- With high viewing angle and brightness adjustment function.
- Automatic range function: automatically select the range according to the measured water depth.
- Auto gain: automatically set gain according to water conditions.
- Alarm function, shallow water alarm, confirm the safe driving of the ship.
- Optional dual–channel sounding, easy for customers to operate.

THE LINEUP

DS606–2

Host size	230*215*83mm	Receiver sensitivity	Better than –50dB
Transducer	200kHz,Φ71.5	Depth range	0.3 ~300m
Power supply	DC24V	Range scale	2.5m; 5m; 10m; 20m; 100m; 200m; 300m
Operating temperature	0 ~ 50℃	Show	Depth of display record ⩾15min
LCD working temperature	–20℃ ~ 70℃	Data storage	⩾12h depth data; support playback of recorded data, display optional numbers or graphics
Humidity	10 –90% relative humidity	Pulse repetition rate	Deep water: ⩾12 times /min; shallow water: ⩾36 times /min
Screen size	7 inches	Measurement accuracy	The scale is ±0.2m in the 20m range, correspondingly ±2m in the 200m range
Transmit signal frequency	200kHz	Resolution	Shallow water (20m) ⩾5.0mm; deep water (200m) ⩾0.5mm
Transmit pulse width	2.5us ± 1us	Interface	Standard IEC 61162 data output
Transmit power	300W.RMSW	Compass safe distance	Standard compass ⩾0.75m; steering compass ⩾0.45m
Receive bandwidth	9–18dB	Case rating	IP22

NAUTICAL DEPTH SOUNDER

DS1068-1

THE MAIN FEATURES

- Low cost, paperless, no pollution.
- High precision, high reliability — different from those paper depth sounders that use motor belts and stylus pens.
- High–contrast 10.4 –inch LED LCD display.
- With high viewing angle and brightness adjustment function.
- Automatic range function: automatically select the range according to the measured water depth.
- Auto gain: automatically set gain according to water conditions.
- Alarm function, shallow water alarm, confirm the safe driving of the ship.
- GPS data input, storage function, multiple playback modes real–time display.
- Printer and computer connection function: can connect to printer and computer through RS–232 interface, Realize printing and data exchange.
- Optional dual–channel sounding, easy for customers to operate.

THE LINEUP

DS1068–1

Host size	278*294*109mm	Printer output	RS232 output (time, depth, latitude and longitude)
Transducer	200kHz,Φ139	Data input	GPS data input (RMC, GGA, GLL, ZDA)
Power supply	DC24V(–25%/+30%)	Measurement accuracy	±1m
Operating temperature	0 ~ 50℃	Transducer beam angle	6° cone
LCD working temperature	–20℃ ~ 70℃	Transmit power	500W(RMS)
Humidity	10 ~ 90% relative humidity	Show	Depth of display record ⩾15min
Screen size	10.4 inches color LCD display	Data storage	⩾12h depth data; support playback of recorded data, display optional numbers or graphics
Optional	Depth Repeater	Pulse repetition rate	Deep water: ⩾12 times /min; shallow water: ⩾36 times /min
Data output	NMEA0183 output (DBT, DPT)	Compass safe distance	Standard compass ⩾ 0.88m

8 INCH DUAL CHANNEL SERIES ECHO SOUNDER

DS816 / DS818 / DS868

THE MAIN FEATURES

- New 8–inch LCD touch screen operation.
- One–key AI intelligent setting mode.
- Beidou data access, storage data output, external print output.
- Multi–core processing chip with core algorithm.

THE LINEUP

	DS816	DS818	DS868
Operation method	Button + touch screen	Button + touch screen	Button + touch screen
External printer	~	~	●
Beidou data access	~	●	●
Depth data output	●	●	●

Power supply	DC24V/AC220V(requires power adapte)	Sensitivity	≥–50dB
Power consumption	≤25W	Basic range	0~300m
Transmit frequency	200±3KHz	Measurement accuracy	≤20m:±0.2m，>20m:±1m
Pulse Width	2.5us±1us	Interface	Standard IEC61162 data output
Transmit power	300W.RMS W	Protection class	Water part IP23，underwater part IP68
Receiving bandwidth	9–18dB		

DUAL CHANNEL ECHO SOUNDER

DS806

THE MAIN FEATURES

- Minimalist style 8–inch color LCD display.
- A new generation of multi–core processing chips with core algorithms.
- Dual–channel, dual–screen, dual–channel power supply.

THE LINEUP

	DS806		
Screen size	8 " TFT Color LCD screen（800x600)	Receiveing bandwidth	9–18dB
Power supply	DC24V	Sensitivity	Better than –50dB
Power consumption	≤25W	Basic range	0–300m
Transmit frequency	200±3KHz	Measurement accuracy	≤20m:±0.2m, >20m:±1m
Pulse Width	2.5us±1us	Interface	Standard IEC61162 data output
Transmit power	300W.RMS W	Protection class	Water part IP23, underwater part IP68

FISH FINDER

CS680

THE MAIN FEATURES

- Low cost, paperless and pollution–free.
- High precision, high reliability – different from those paper sounders that use motor belts and recording pens.
- High–contrast 6–inch LED LCD display.
- With high viewing angle and brightness adjustment function.
- Automatic gain: automatically set the gain according to the water conditions.
- Powerful anti–interference function.
- Rich expansion magnification: bottom expansion mode, automatic magnification mode and manual magnification mode.

THE LINEUP

CS680

Host size	230*215*83mm	Measurement accuracy	1% of full scale, minimum accuracy 0.3m
Transducer	50kHz/200kHz，Φ71.5	Measurement range	Level20：5、10、15、20、30、40、50、60、80、100、125、150、180、200、250、300、400、500、600、800
Screen size	6 inch		
Transmit power	300W	Working frequency	50/200KHz
Power supply	DC24V（±20%）	Transducer beam angle	33° cone
Power consumption	less than 50W	Display	Color LCD screen, LCD screen background brightness adjustable
Humidity	10~90% Relative humidity	Other	With shallow water alarm, fish alarm, anti–jamming function
Measuring depth	0–800m		

FISH FINDER

DS768

THE MAIN FEATURES

- Dual–core dual–frequency, intelligent fish exploration, a variety of functions optional.
- High–contrast 10.4–inch color LCD display with high viewing angle and brightness adjustment.
- Automatic range function: automatically select the range according to the measured water depth.
- Automatic gain: automatically set the gain according to the water conditions.
- Alarm function: shallow water alarm to ensure the safe driving of the ship.
- Powerful anti–interference function.
- Rich expansion zoom mode: bottom expansion mode, automatic zoom mode and manual zoom mode.

THE LINEUP

CS768

Host size	278*294*109mm	Measurement accuracy	1% of full scale, minimum accuracy 0.3m
Transducer	50/200kHz,Φ80	Measurement range	Level20：5、10、15、20、30、40、50、60、80、100、125、150、180、200、250、300、400、500、600、800
Screen size	10.4 inch		
Transmit power	600～1000W(RMS)	Working frequency	50/200KHz
Power supply	DC24V（±20%）	Transducer beam angle	33° cone
Power consumption	less than 50W	Display	Color LCD screen, LCD screen background brightness adjustable
Humidity	10~90% Relative humidity	Other	With shallow water alarm, fish alarm, anti–jamming function
Measuring depth	0–800m		

DOPPLER LCD LOG

DS90

THE MAIN FEATURES

- Dual-beam system, effectively reducing the metering error.
- The transducer contains two symmetrical sensors, which emit two sound beams, one forward and the other backward. The system automatically averages the two Doppler signal data to obtain a more accurate measurement value.
- Speed and mileage information are displayed in a high-brightness and high-contrast 7 -inch color LCD screen.
- Data can be output to radar, electronic chart, AIS system, VDR and other equipment.
- Fully meet the requirements of international maritime personal safety transportation.

THE LINEUP

DS90

Transducer	Diameter 60mm , cable length 20m	Show	7 -inch color LCD display
Display unit	230 × 215 × 83mm , weight 3kg	Adjustable brightness	LCD screen background brightness is adjustable in 8 levels
Signal processing distribution unit	348 × 346 × 107mm , weight 8kg	Optional	Repeater
Transceiver unit	328 × 384 × 107mm , weight 7kg	Data output	NMEA0183 (VBW , VLW)
Power supply	AC110V/220V(± 10%)	Data input	NMEA0183 (RMC , VTG , GLL , HDT)
Operating temperature	−10° C ~55° C , 0° C ~40° C is recommended	Speed accuracy	0.2 knots or ± 2% , whichever is greater
LCD working temperature	−00° C~70° C	Transmit / receive frequency	1MHz
Humidity	10~90% relative humidity	Measuring range	40 knots

ANEMOMETER

AMC728

THE MAIN FEATURES

- High precision, high reliability, no blind spots in 360 degrees, not affected by bad weather.
- No starting wind speed of traditional equipment, no mechanical maintenance.
- High-performance 7 -inch color LCD display, always grasp the wind speed and direction.
- Dual NMEA0183 data input / output.

THE LINEUP

AMC728

Main unit	230 × 21 × 83mm , weight 1kg	Wind speed measurement accuracy	0.1m/s (when the wind speed is less than 5m/s) ± 2% (when the wind speed is greater than 5m/s)
Sensor unit	274 × 274 × 413mm , weight 5kg		
Weather sensor (including blinds)	Φ220 × 190mm , weight 2kg	Wind direction measurement range	0~359°
Power supply	DC24V(−25%/+30%)/2A	Wind direction measurement accuracy	± 1°
Power consumption	No more than 12W at 25° C no more than 45W when heating	NMEA data input (two channels)	Optional receiving: GPS, compass, log data
		NMEA data output (two channels)	Wind speed and direction, weather (if any) data output
Operating temperature	Outdoor −20~60° C , indoor −10~50° C	Temperature measurement range	−40 ~+85° C
Storage temperature	−30~70° C	Temperature measurement accuracy	0.5° C
Humidity	10~90% relative humidity	Humidity measurement range	0 ~100%RH
Show	7 -inch color LCD display	Humidity measurement accuracy	0.5%RH
Brightness	LCD screen background, brightness adjustable	Barometric pressure measurement range	500 ~1100hPa
Wind speed measurement range	0~40m/s	Air pressure measurement accuracy	15hPa

WEATHER FAX

SFX508

THE MAIN FEATURES

- 15 –inch LCD display, which can accurately receive weather fax images even under changing weather conditions.
- A total of 900 channels, including 330 pre–programmed channels and 570 user–programmable channels.
- Paperless operation, can store 120 images, view and recall the required information at any time, convenient and efficient operation.
- The image can be enlarged and rotated, and the local data is clearer and more accurate.
- Built–in 32 timetable timers, automatically receive data regularly.

THE LINEUP

SFX508

Main instrument	382*404*110mm, weight 7kg	Number of presets receiving channels	300
Power supply	DC24V (–25%/+30%)	Number of storage channels	900
Operating temperature	–10–50° C	Sensitivity	＜2μV（在20dB SINAD）
Humidity	10–90% relative humidity	Receive mode	F3C
Show	15 –inch color LCD display	External input signal	Level 0dBm (600 ohms)
Adjustable brightness	Adjustable LCD background brightness	GPS/BDS input (if connected)	RMC、GLL、ZDA
Frequency Range	2–25MHz		

FISHING VESSEL SAILING WATCH ALARM

FT-505

THE MAIN FEATURES

- Bridge duty warning.
- Supervision of crew on board.
- One–key emergency alarm.
- Infrared detection.
- On–duty alarm automatic mode.
- Power outage record.
- Alarm reminder record.

THE LINEUP

FT–505

Sleep time	180s ~ 720s	Interface Type	Power interface: YL–16–3 core aviation seat Accessory interface: DB9 Data interface: YL–16–9 core aviation seat, RS–422 , 9600/4800bs
Prompt phase delay	10s		
Alarm start delay	90s ~ 180s		
Precision	± 3s	Dimensions	Main control unit: 200*14*55mm Alarm reset device: 95*125*33mm Infrared detector: 62*90*65.5mm
Buzzer output	The sound pressure level of the buzzer in the prompting phase at a distance of 1m from it should be 75~85dB (A); The sound pressure level of the buzzer during the warning phase at a distance of 1m from it should be 75~120dB (A)		
Operating temperature	–15℃ ~ +55℃	Weight	The main control unit: 426g Alarm reset device: 311G Infrared detectors: 86g
Storage temperature	–30℃ ~ +70℃		
Operating Voltage	直流12V（–10% ~ +30%）		

NAVIGATION WARNING RECEIVER

NVX603

THE MAIN FEATURES

- It is in full compliance with the MSC Resolution 148 (77) of the International Organization for System Affairs.
- Support dual-channel simultaneous reception, support long character information of more than 500 words.
- Support external printer, support power-off storage of multiple information.
- Lightweight antenna with high performance, high reliability and easy installation.
- Large-screen LCD display, rich data input and output interfaces.

THE LINEUP

NVX603

Main unit	230×215×83mm, weight 1kg	Brightness	LCD screen background, brightness adjustable
Antenna unit	Φ156mm×118mm, weight 600g (excluding cables and connectors)	Receive frequency	518KHz, 486KHz/4209.5KHz
Power supply	DC24V (-10%/+30%)	Sensitivity	<2μV (at 50 ohm load)
Power consumption	No more than 25W at 25° C	Spurious emission	≤1nW
Operating temperature	Outdoor -20-60° C, indoor -10-50° C	Input protection	Threshold 30V peak voltage, time ≥ 15 minutes
Storage temperature	-30-70° C	Print content	16*16 DPC, 40 characters / line
Humidity	10-90% relative humidity	Printing speed	48 characters / sec
Show	7 -inch color LCD display	Print capacity	5000 rows

DEPTH SOUNDER REPEATER

IR202

THE MAIN FEATURES

- Comply with "General Technical Requirements for Marine Equipment" of the Maritime Safety Administration of the People's Republic of China.
- Has shallow water alarm and data loss alarm function.
- Display unit selection, display brightness adjustment.
- Accurate display of measuring depth.
- Compatible with other echo sounders with NMEA output interface.
- Automatic detection function at boot.

THE LINEUP

IR202

Screen display	Four-digit 0.8 -inch high-performance digital tube	Display unit	Meters, xun, feet
Display range	0.1m-999.9m	Bright adjustment	15 levels
Shallow water alarm	0-99m	Interface function	NMEA0183

LOG REDISPLAY

IR206

THE MAIN FEATURES

- Comply with "General Technical Requirements for Marine Equipment" of the Maritime Safety Administration of the People's Republic of China.
- Accurate speed and mileage display.
- With brightness adjustment function.
- Excellent manufacturing, high cost performance.
- Compatible with other logs with NMEA output interface.
- Automatic detection function at boot.

THE LINEUP

IR206

Screen display	The speed display area uses three 0.8 -inch high-performance digital tubes The mileage display area uses a seven-digit 0.5 -inch high-performance digital tube	Mileage display range	0.01nm-99999.99nm
		Bright adjustment	15 levels
Speed display range	0.1Kn-99.9Kn	Direction display	Before and after

ANEMOMETER REPEATER

IR701

THE MAIN FEATURES

- Comply with "General Technical Requirements for Marine Equipment" of the Maritime Safety Administration of the People's Republic of China
- High accuracy, high reliability.
- Accurate display of wind direction and wind speed data.
- A variety of units to choose from.
- It has the functions of strong wind alarm and automatic power-on detection.
- Adjustable brightness digital tube display, with high viewing angle and brightness adjustment function.

THE LINEUP

IR701

Screen display	Six-digit 0.8 -inch high-performance digital tube	Bright adjustment	15 levels
Display range	0-360° , 0-99.9km/h	Interface function	NMEA0183
Display unit	m/s, km/h , kn		

COMPASS REDISPLAY

DGR502

THE MAIN FEATURES

- Comply with "General Technical Requirements for Marine Equipment" of the Maritime Safety Administration of the People's Republic of China.
- The seven–segment digital tube displays the amount of heading change.
- 24– Zhi ROT indicator shows the rate of change of course.
- J has strong light mode, night flight mode.
- High–performance, long–life LED digital tube display, six–level brightness adjustable.
- Optional DIM200 remote dimmer to realize remote dimming.

THE LINEUP

	DGR502		
Screen display	7– segment digital tube + 24 light–emitting diodes	Bright adjustment	Level 6
Display range	0.0° –359.9°	Data input interface	Compass IEC61162 NMEA0183

SHIP COMMUNICATION SHORE-BASED RECEIVING EQUIPMENT SERIES

Ship communication base station is the interface device for shipboard communication equipment to access the land-based communication network. It is also a form of radio station. It means that in a certain radio coverage area, through the communication switching center, land-based and ship-borne communication terminals can be reached. A radio transceiver station that transmits information between. Our company's ship communication shore-based products include AIS , medium and high frequency, VHF and fishery radio base stations, which are widely used in the fishing vessel safety management projects of the fishery management department.

AIS RECEIVING BASE STATION

FT-602

THE MAIN FEATURES

- Compatible A Class AIS and B class AIS system network operates using.
- Able to continuously and autonomously receive the dynamic and static information of surrounding AIS ships.
- Able to receive rescue information from AIS equipment including AIS-SART and AIS position indicator.
- The received AIS data information can be transmitted to the designated server through the network.
- It has four types of alarms: dry contact output transmission alarm, equipment failure alarm, power supply power alarm, antenna feeder standing wave alarm and four types of alarms.
- Support multiple IP link access methods.
- Transparent data forwarding, supporting ship voyage, voyage, crew ID card swiping and other data uploading and receiving.
- With self-fault monitoring, reporting, protection, isolation and other functions.

THE LINEUP

FT-602

Frequency Range	156.025MHz-162.025MHz	Receiving sensitivity	-107dBm，PER＜20%
Default channel (2)	AIS1：161.975MHz AIS2：162.025MHz	Error at high input level	-77dBm，PER＜2%；-7dBm，PER＜10%
Frequency interval	25kHz	Co-channel suppression	＞12dB ,PER＜20%
Standard way	GMSK（16KOJ3E）	Adjacent channel immunity	＞70dB ,PER＜20%
Powered by	AC220V（±15%）	Spurious response suppression	≥68dB
Operating temperature	-20℃~+55℃	Intermodulation immunity	＞70dB ,PER＜20%
Feeder model	SYV50-12	Intermodulation response suppression	＞65dB,PER＜20%
Feeder length	50M	Block	＞84dB ,PER＜20%
Receiver electrical performance	50Ω	Spurious emission	9KHz~1GHz：＜-57dBm，1GHz~4GHz：＜-47dBm

ULTRASHORT WAVE DIGITAL CENTRALIZED CONTROL SHORE STATION

FT-901

THE MAIN FEATURES

- Trunking control, supporting multiple IP link access methods.
- Can be used by multiple client devices at the same time, with hierarchical authority control.
- Configure PC and APP software, support client remote control.
- Voice call function, support remote control call.
- Dual signaling work, 4 channels on duty.
- Support selective call, quick call, group call, all call, group call, sea call and other digital selective calls.
- Ship position monitoring function, with a dedicated receiver to process the berth report data and push the data to the monitoring platform.
- With self-fault monitoring, reporting, protection, lightning protection and other functions

THE LINEUP

FT-901

Frequency Range	27.5~39.5MHz	Modulation limit	≤±5KHz
Channel spacing	25KHz/12.5KHz	Modulation sensitivity	20mV±10mV
Number of channels	1000个	Spurious radio frequency components	≥5μW
Frequency tolerance	≤±20ppm（-20℃+60℃）	Audio distortion	<7%
Operating Voltage	DC24V/AC220V	Rated audio output power	≥5W（8Ω）
Operating temperature	-15℃~+55℃	Frequency Range	27.5MHz~39.5 MHz
Output impedance	8Ω（audio）	Voltage standing wave ratio	≤2
Input resistance	2KΩ（microphone）	Antenna gain	2dB
Transmit power	≤50W	Rated impedance	50Ω
Reference sensitivity	≤0.2uV（12dB SINAD）		

VHF DIGITAL CENTRALIZED CONTROL SHORE STATION

FT-905

THE MAIN FEATURES

- VHF voice call, support for handle voice call.
- Support selective call, group call, all call, sea call, distress call reception and other digital selective calls.
- Channel scan, channel mark setting function.
- Radio parameter setting, transmitting power selection function.
- Volume, squelch adjustment.
- Configure PC and APP software, support client remote control.

THE LINEUP

FT-905

Frequency Range	156~163MHz	Receiver sensitivity	≤0.25uV(12dB SINAD)
Frequency stability	≤1.5ppm	Modulation limit	≤±5KHz
Modulation	FM（16K0G3E）；DSC（26K0G2E）	Modulation sensitivity	17mV±10mV
Operating Voltage	DC24V/AC220V	Audio distortion	≤5%
Operating temperature	-15℃~+55℃	Audio output power	≥3W（8Ω）
Data interface	RS232、RJ45	Audio response	300~3400Hz
Transmit power	≤50W	Emission spurious	≤5uW

SHORTWAVE DIGITAL CENTRALIZED CONTROL SHORE STATION

FT-908

THE MAIN FEATURES

- Support frequency selection, ship number input and remote control for voice calls.
- Trunking control, supporting multiple IP link access methods.
- Can be used simultaneously by multiple client devices at the same time, with hierarchical authority control.
- Configure PC and APP software, support client remote control.
- Support selective call, quick call, group call, all call, group call, sea call and other DSC functions.
- Receiving, rebroadcasting and confirming ship distress calls.
- Ship position monitoring function, with a dedicated receiver to process the berth report data and push the data to the monitoring platform.
- The equipment has self-fault monitoring, reporting, protection, lightning protection and other functions.

THE LINEUP

FT-908

Frequency Range	Tx：1600.0~27500.0KHz Rx：500.0~30000.0kHz	Audio output	5W/8Ω
		Frequency Range	1.6MHz~30.0MHz
Frequency tolerance	≤±10Hz	Voltage standing wave ratio	≤2
Operating mode	USB、LSB、AM、FSK	Antenna gain	2dB
Operating Voltage	DC24V/AC220V	Rated impedance	50Ω
Operating temperature	-15℃~+55℃	Frequency	2.1875MHz，4.2075MHz，6.3120MHz； 8.4145MHz，12.577MHz，16.8045MHz
Transmit power	100W		
Sensitivity	≤1μV(SINAD=20dB)	Frequency error	10Hz
Carrier suppression	≥40dB	Transmitting/receiving type	F1B
Audio distortion	≤5%	Modulation/demodulation method	FSK
Residual frequency deviation	≤-40dB	Frequency deviation	1700Hz±85Hz
Carrier suppression	J3E≥40dB PEP，H3E≥36dB	Baud rate	100bps
Intermodulation suppression	≥70dB	Receiving sensitivity	≤0dBuV

FISHING VESSEL COMMUNICATION EQUIPMENT SERIES

Fishery vessel communication equipment refers to communication equipment that adopts fishery system communication technology standards and dedicated communication frequency bands, and is only applicable to fishery vessels.

FISHING RADIO TELEPHONE

FT-801

THE MAIN FEATURES

- Dual signaling work, 4 channels on duty.
- Remote remote boot after shutdown.
- Support selective call, quick call, group call, all call and other DSC functions.
- Automatically receive weather broadcast calls.
- Timed, automatic, manual ship position return, support command return.
- Built–in GPS module, support ship position information display and navigation function.
- Amplitude Modulation (AM) Radio Function.
- Full channel, memory channel scan.
- GPS signal failure prompt, low voltage alarm.

THE LINEUP

	FT–801		
Frequency Range	27.500~39.5MHz	Adjacent channel power (ratio)	⩾65dB (25~500MHz)
Channel spacing	25KHz/12.5KHz	Modulation limit	⩽5KHz
Modulation	FM (16KOJ3E)	Modulation sensitivity	20 ± 10mV
Frequency tolerance	⩽ ± 20ppm	Audio distortion	⩽7%
Antenna impedance	50Ω	Reference sensitivity	⩽0.4 μ V
Output impedance	8Ω (audio)	Rated audio output power	⩾1W
Input resistance	2KΩ (microphone)	Audio distortion	⩽7%
Operating Voltage	DC12V/24V	Adjacent channel selectivity	⩾65dB
Operating temperature	−15℃~+55℃	Spurious response resistance	⩾65dB
Carrier output power	⩽25W	Intermodulation immunity	⩾58dB
Spurious radio frequency components	⩽5 μ W		

SAFETY NET DIGITAL RADIO FOR FISHERY SHIPS

FT-802

THE MAIN FEATURES

- Comply with " General Technical Specifications for FM Radio Telephones for Fishery Ships (27.5–39.5 MHz)" and SC/T 6053–2012 standard requirements.
- Multiple call types such as selective call, group call, all call, emergency call, etc.
- Compatible with digital / analog working status.
- GPS+ Beidou positioning, with navigation function.
- Bluetooth /Wifi connection.
- Remote faint / remote death / resurrection.
- In the call state, the computer can be connected to the terminal through the serial port for fully transparent data transmission.

THE LINEUP

FT–802

Frequency Range	27.5～39.5 MHz	Spurious radio frequency components	≤5 μW
Channel spacing	25KHz	Modulation limit	≤5 KHz
Number of channels	480个	Modulation sensitivity	20±10 mV
Modulation	16K0F3E—300F2D (ASK) 1K2F2D (MSK)	Audio distortion	≤7%
		Reference sensitivity	≤0.4 μV
Audio range	300～3000 Hz	Rated audio output power	≥1 W
Antenna impedance	50Ω	Audio distortion	≤7%
Operating Voltage	DC 12V	Co-channel suppression	≥-8 dB
Operating temperature	-15℃~+55℃	Adjacent channel selectivity	≥65 dB
Carrier frequency tolerance	$\leq 20 \times 10^{-6}$	Spurious response immunity	≥65 dB
Carrier output power	≤25 W	Intermodulation immunity	≥58 dB

FISHERY SMART DIGITAL RADIO

FT-998

THE MAIN FEATURES

- Comply with " General Technical Specifications for FM Radio Telephones for Fishery Ships (27.5–39.5 MHz)" and SC/T 6053–2012 standard requirements.
- The fishery administration phone is equipped with a fishery administration channel and has a voice encryption function for fishery administration business use.
- Multiple call types such as selective call, group call, all call, sea call, emergency call, etc., support call transfer.
- With a dedicated interface for the system platform, it can be used as a communication base station for data interaction.
- Compatible with digital / analog working status.
- Receive weather and sea state forecasts,Recording and recording playback.

THE LINEUP

Frequency Range	27.5～39.5 MHz	Spurious radio frequency components	≤5 μW
Channel spacing	25KHz	Modulation limit	≤5 KHz
Number of channels	480个	Modulation sensitivity	20±10 mV
Modulation	16K0F3E—300F2D (ASK) 1K2F2D (MSK)	Audio distortion	≤7%
		Reference sensitivity	≤0.4 μV
Audio range	300～3000 Hz	Rated audio output power	≥1 W
Antenna impedance	50Ω	Audio distortion	≤7%
Operating Voltage	DC 12V	Co-channel suppression	≥-8 dB
Operating temperature	-15℃~+55℃	Adjacent channel selectivity	≥65 dB
Carrier frequency tolerance	$\leq 20 \times 10^{-6}$	Spurious response immunity	≥65 dB
Carrier output power	≤25 W	Intermodulation immunity	≥58 dB

SMART FISHING PORT INTEGRATED MANAGEMENT PLATFORM

Integrating technologies such as big data, IoT, geographic information, intelligent identification, modern communications, and satellite applications, it provides a basket of solutions for information-based management of fishing ports, and realizes “managing people by port”, “managing vessels by port” and “managing fishing by port”.”, to comprehensively improve the fishing port supervision ability and service guarantee level to create an intelligent fishery safety management outpost and a fishing port economic demonstration zone.

SMART FISHING PORT INTEGRATED MANAGEMENT PLATFORM

The fishing port is a comprehensive fishery production base that integrates fishing boat berthing and sheltered fish cargo loading and unloading, material supply, refrigerated processing, circulation trade, and ship and fishing net tool repair. The core of integrated fisheries management. The level of fishing port management ability directly reflects the level and development potential of marine capture fishery development in a region. Informatization is the basis for the improvement of fishing management capabilities, and the information system monitors various target data. Collect, analyze, and then perform operations and judgments in the mathematical model of management rules to form results. At the same time, the results are fed back to the associated control components and converted into specific behaviors. In this process, the information flow combines things and people into one. A tight organic whole. The development of information technology has greatly reduced unnecessary manual intervention in management and improved the efficiency and accuracy of management. It is an important indicator of the management ability of fishing ports.

THE LINEUP

Smart Fishing Port Integrated Management Platform

Interactive Medium	Computer、Big Screen Command、Electronic Stop Sign、Handheld Terminal
Application Support	Web service、GIS service、Beidou application service、Communication access service、Application access Service
Data Transmission	Web、Satellite network、4G / 5G、AIS、SOS / GPS
Data Collection	Beidou shipborne positioning terminal、AIS base station、All-in-one panorama HD camera、Radar、Drone monitoring

MARINE BEIDOU/ SHIPBORNE AIS INTEGRATED MANAGEMENT PLATFORM

Marine Beidou/Shipborne AIS integrated management platform integrates various modern science and technology to form an integrated safety production, rescue and supervision information system covering ships, ports, people and adjacent sea areas, and connecting safety management departments at all levels. In the system, IoT and modern communication information technology, Beidou and Tiantong satellite communication technology, AIS and VHF communication technology, radio frequency technology, computer network and other information systems are comprehensively applied and processed uniformly. Integrate to form an organic whole, meet the needs of all-round monitoring of ships/ports/people, safety production management, emergency rescue, big data, cloud computing, etc., and provide scientific basis for management decisions of competent departments at all levels.

MARINE BEIDOU / SHIPBORNE AIS INTEGRATED MANAGEMENT PLATFORM

- Chart engine and chart data management, use the IHOS63/S57 standard electronic chart data published by the Ministry of Aviation Security, and comply with the data standard S57 and display standard S52 specifications.
- Multiple ship position data fusion and display, can access terminal data such as ship-borne Beidou, AIS, HF, UHF, CDMA, and Smart Voyage.
- Ship position monitoring (jurisdictional monitoring, regional monitoring), demolition alarm, power failure alarm, floating alarm.
- Management of high-risk waters, heavy traffic at sea and smart warning in specific areas.
- Port ship management, ship entry and departure, port ship display and statistics, voyage statistics.
- Communication command management, police reception, emergency plan, search and rescue, coordination and other information management.
- Data management, basic file information, ship dynamics, port dynamics, communication command data query and statistics.
- Crew identity management, display crew information on board.
- Meteorological information fusion display; track playback and regional playback.
- Ship roll call and online operation determination; watchkeeping and operation log management; management and assignment of user rights

Fishery Safety Production Communication chain of command

Beidou satellite ship positioning information Integrated management system