

User Manual

AIS-700 Class B AIS Transponder



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Made in Taiwan

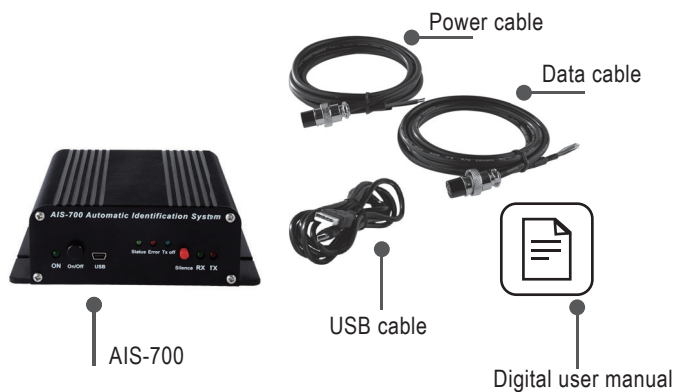
Warning

This device has some optional user activated functionality which may not be permitted in some countries. If you are in any doubt, please check with your local authorities.

Notifications

- Do not input voltage over 40V.
- Stay away from fire.
- Do not crash by Human negligence.

What do I need?



Basic Setting

1 Install the setting software "AIS_700T_AP"

Application Files

AIS_700T_AP

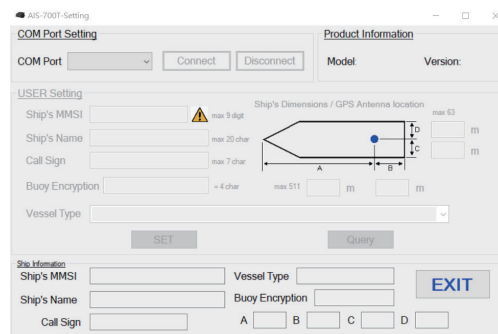
AIS_700T_AP

setup

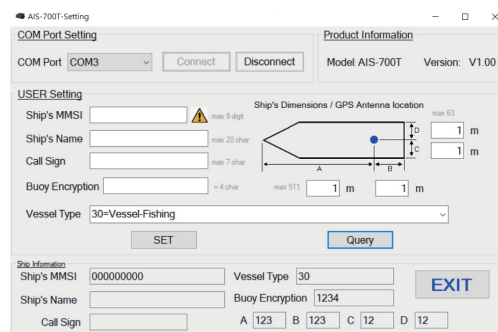
2 Open the software.



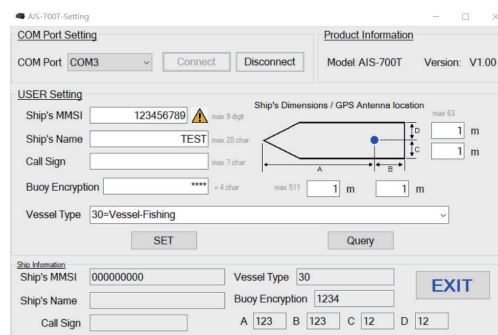
- 3 Plug in the power cable and provide 12~24V power input.
- 4 Turn on the AIS-700.
- 5 Connect to your computer by USB cable.
- 6 Choose the correct COM port and click "Connect".



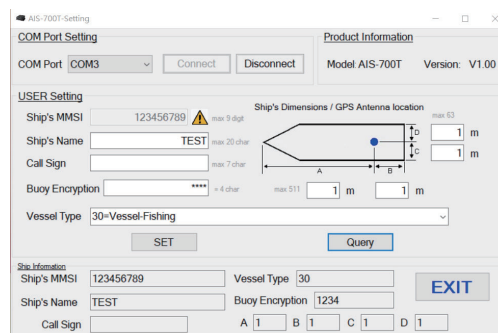
7 Click "Query" to load default setting.



8 Enter your information of ship then click "SET".



9 Click "Query" to make sure the setting.



10 Click Disconnect and EXIT.

11 Power off the AIS-700.

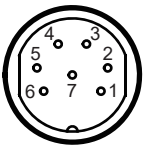
■ Connections Define



Power

PIN	
1	V-
2	Reserved
3	V+
4	Reserved

Cable	
Black	V-
Red	V+

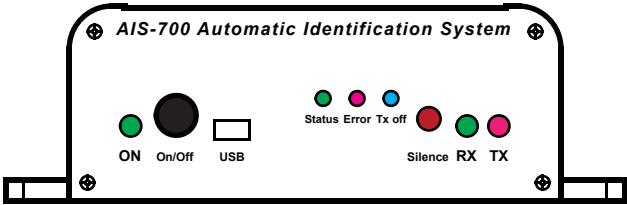


Data

PIN	
1	GND
2	Reserved
3	Reserved
4	T- RS422
5	T+RS422
6	RS232 Tx
7	RS232 Rx

Cable	
Black	GND
Blue	Reserved
Yellow	Reserved
Green	T- RS422
White	T+RS422
Gray	RS232 Tx
Brown	RS232 Rx

■ LED Flash Code



ON (Green LED)

Steady Light

Dark

12V Power input

Low power input (<5V DC)

Error (Red LED)

Steady Light

Flashing

MMSI is not properly programmed or MMSI=0

- Background noise level exceeds allowable threshold(-77dBm)
- GPS is unable to lock 3D fixed after 3 minutes of losing GPS signal

Tx off (Blue LED)

Steady Light

While Silence button is pushed

RX (Green LED)

Steady Light

Dark

While the transponder is receiving AIS data

While the transponder is not receiving AIS data

TX (Red LED)

Steady Light

Dark

While the transponder is transmitting own AIS data

While the transponder is not transmitting own AIS data

Status (Green LED)

Steady Light

Flashing

While transponder initialize finished

Transponder initialize fail



Notifications

- If you need to continue to set another AIS-700, you do not need to choose your COM Port. Just click connect and repeat step 8 to 11.
- Please remember to restart the AIS-700 before test and use it.
- If you want to receive the signal of AT-106, please set the same encrypt code with each other.

■ Specification-----

- AIS Channel 1 : CH 87B (161.975 MHz)
- AIS Channel 2 : CH 88B (162.025 MHz)
- Channel Bandwith : 25 KHz
- Data Rate: 9600 bps (GMSK / FM)
- Tx Output Power : 2 Watt
- Rx Sensitivity : < -107dBm @20% PER
- Supply Voltage : 9V ~ 40V DC
- Size : 140 mm x 131.4 mm x 46 mm
- Weight : 600g
- Operating Temperature : -15°C~60°C
- Storage Temperature : -20°C~70°C

■ One-Year Limited Warranty-----

Remark:

- 1.This product is warranted to be free from defects in materials and workmanship under normal use for a period of one (1) year from the date of purchase.
- 2.During the warranty period, the manufacturer will, at its discretion, repair or replace any defective product or part at no charge.
- 3.This limited warranty does not cover damage caused by misuse, accidents, unauthorized repairs, or normal wear and tear. Proof of purchase is required for warranty service.

Please keep this warranty card to retain buyer’s legal rights. No replacement if lost.

Distributor

Sold Date: ____ / ____ / ____ (dd/mm/yyyy)