User Manual

AIS-700W Class B AIS Transponder

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Made in Taiwan

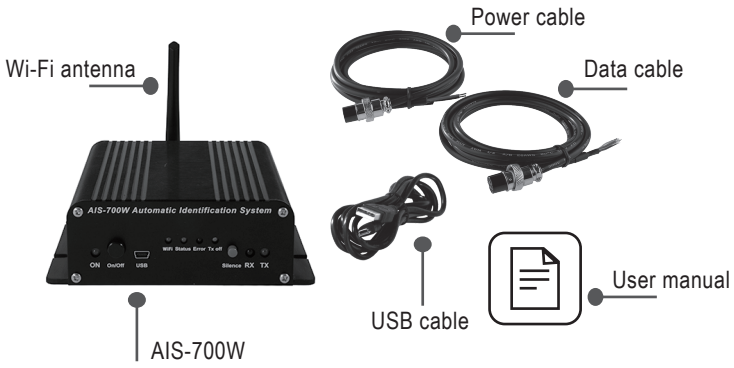
⚠ Warning

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

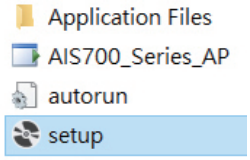
- Do not input voltage over 40V.
- Stay away from fire.
- Do not crash by Human negligence.

■ What do I need?



■ Basic Setting

❶ Install our setting software “AIS700_Series_AP”



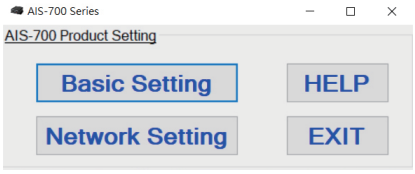
❷ Open the software.

❸ Plug in the power cable and provide 12~24V power input.

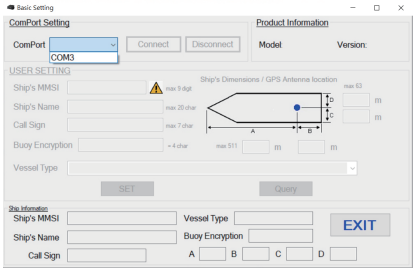
❹ Turn on the AIS-700W.

❺ Connect to your computer by USB cable.

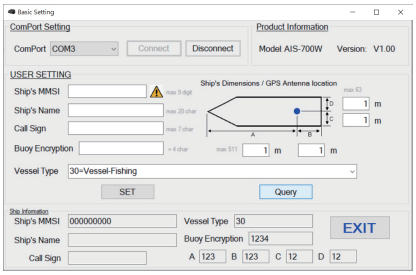
❻ Choose “Basic Setting”.



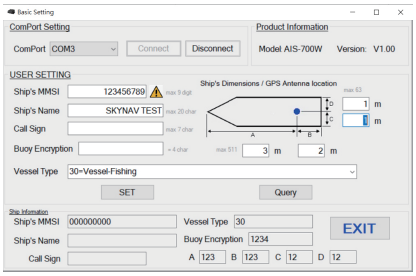
❼ Choose the correct COM Port and click “Connect”.



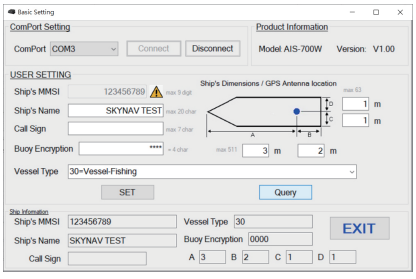
❽ Click “Query” to load default setting.



❾ Enter the information of ship then click “SET”.
(Please enter the same encrypted code with your buoy.
If you don’t have our buoy, you don’t have to do this.)



❿ Click “Query” to make sure the setting.



⓫ Click Disconnect and EXIT.

⓬ Power off the AIS-700W.

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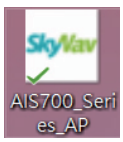
AIS-700W Class B AIS Transponder

Network Setting

❶ Open the software.

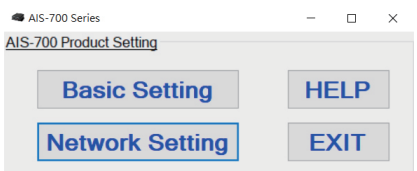


❷ Plug in the power cable and provide 12~24V power input.

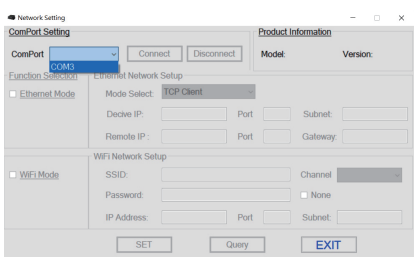
❸ Turn on the AIS-700W.

❹ Connect to your computer by USB cable.

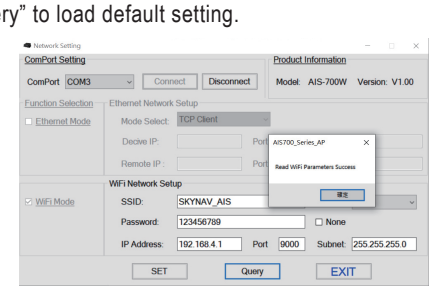
❺ Choose “Network Setting”.



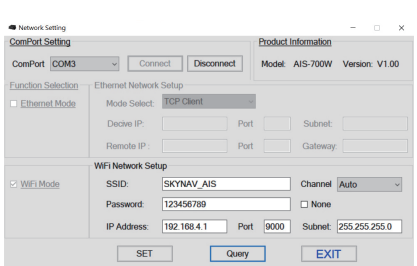
❻ Choose the correct COM Port and click “Connect”.



❼ Click “Query” to load default setting.



❽ Enter the information of Wi-Fi then click “SET”



❾ Click “Query” to make sure the setting.

❿ Click Disconnect and EXIT.

⓫ Power off the AIS-700W.

Wi-Fi Connection

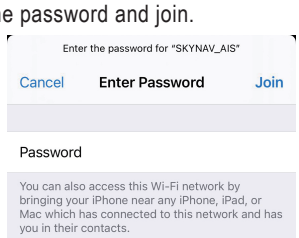
❶ Power on the AIS-700W.

❷ Install the Wi-Fi antenna.

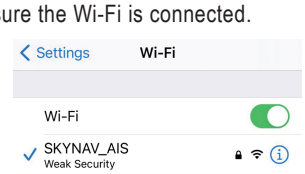
❸ Open the Wi-Fi list on your smart phone.

❹ Choose the SSID you set for AIS-700W.

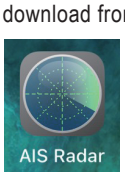
❺ Enter the password and join.



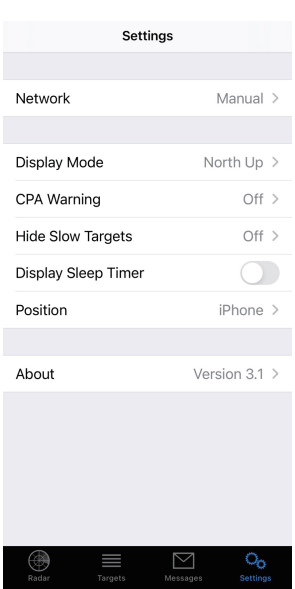
❻ Make sure the Wi-Fi is connected.



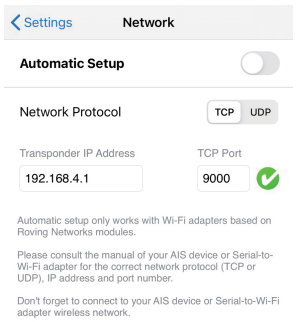
❼ Open the “AIS Radar”
(Please download from App store or Google play)

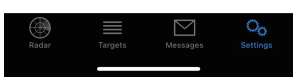


❽ Enter the information of Wi-Fi then click “SET”

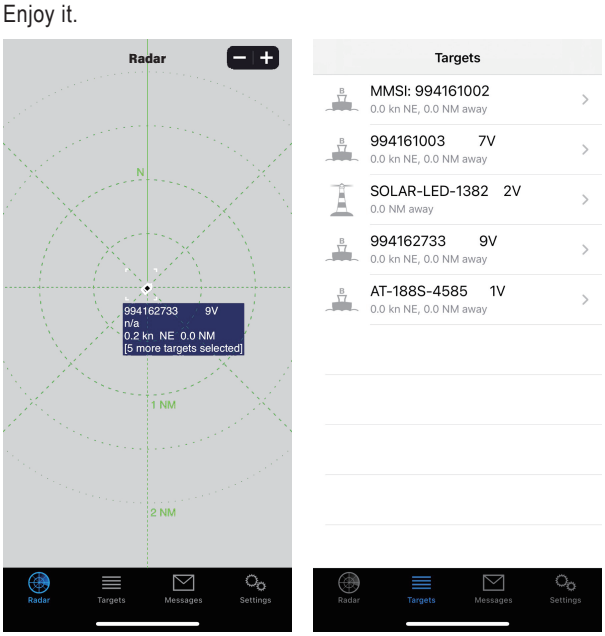


❾ Enter the IP address and TCP port.

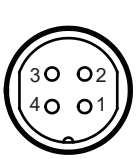




❿ Enjoy it.

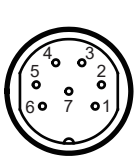


■ Connections Define



Power

PIN	
1	V-
2	Reserved
3	V+
4	Reserved



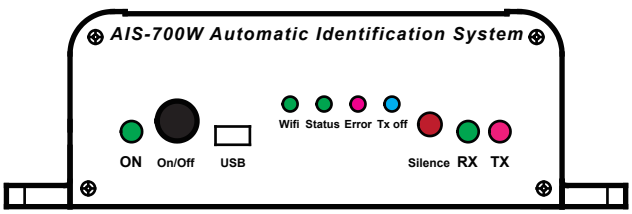
Data

PIN	
1	GND
2	Reserved
3	Reserved
4	T- RS422
5	T+ RS422
6	RS232_Tx
7	RS232_Rx

Cable	
Black	V-
Red	V+

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	➤	12V Power input
Dark	➤	Low power input (<5V DC)

Error（Red LED）

Steady Light	➤	MMSI is not properly programmed or MMSI=0
Flashing	➤	• Background noise level exceeds allowable threshold(-77dBm) • GPS is unable to lock 3D fixed after 3 minutes of losing GPS signal
Dark	➤	others

Tx off（Blue LED）

Steady Light	➤	While Silence button is pushed

RX（Green LED）

Steady Light	➤	While the transponder is receiving AIS data
Dark	➤	While the transponder is not receiving AIS data

TX（Red LED）

Steady Light	While the transponder is transmitting own AIS data
Dark	While the transponder is not transmitting own AIS data

Status（Green LED）

Steady Light	While transponder or Wi-Fi or Ethernet initialize finished
Flashing	• Wi-Fi initialize fail • Ethernet initialize fail

Wi-Fi（Green LED）

Steady Light	Active Wi-Fi traffic
Flashing	While the transponder is transmitting AIS data via Wi-Fi traffic

⚠ Notifications

- If you need to continue to set another AIS-700W, you do not need to choose your COM Port.
  Just click connect and repeat step 8 to 11.
- Please remember to restart the AIS-700W 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

- Frequency Range：156.025 MHz ~ 162.025 MHz
- Data Rate: 9600 bps (GMSK / FM)
- Tx Output Power：2 Watt
- Rx Sensitivity：< -107dBm @20% PER
- AIS Channel 1：CH 87B (161.975 MHz)
- AIS Channel 2：CH 88B (162.025 MHz)
- 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

■ Warranty

Remark:

1. One-year warranty effects from the purchase date.
2. The warranty covers any manufacturing technical defect excluding breakage.
3. The warranty does not cover faults resulting from operation careless handing or not the following instruction. Also, to electric shock cases.

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

Distributor

Sold Date: ___ / ___ / _____ (dd/mm/yyyy)