

User Manual

AIS-700W Class B AIS Transponder



SKYNAV Technology, Inc.
ADD: 6F., No.105, Xicheng Rd., Banqiao Dist., New Taipei City 220, Taiwan (R.O.C)
Tel:886-2-26870869 / Fax:886-2-26870096
www.skynav.com.tw / service@skynav.com.tw

Made in Taiwan

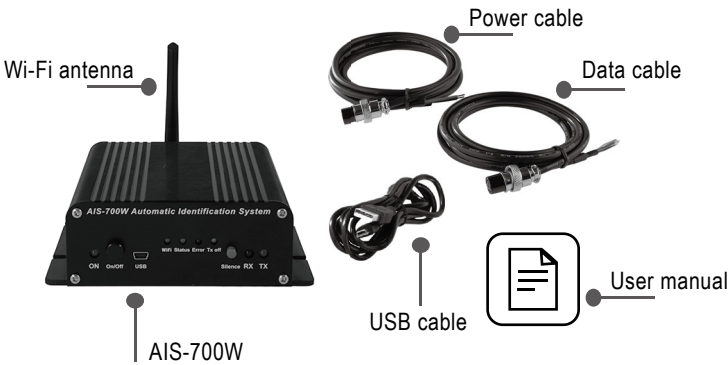
Warning

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

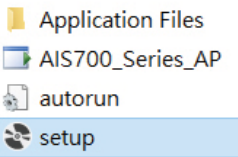
- Do not input voltage over 40V.
- Stay away from fire.
- Do not crash by Human negligence.

What do I need?

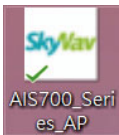


Basic Setting

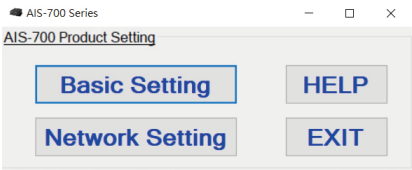
1 Install our setting software "AIS700_Series_AP"



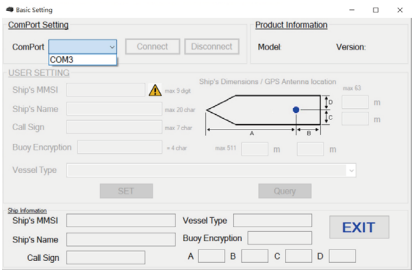
2 Open the software.



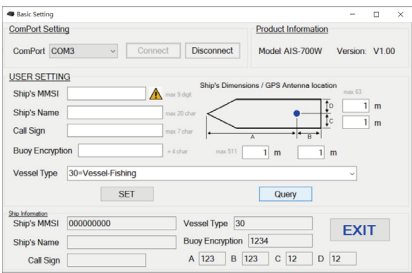
- 3 Plug in the power cable and provide 12~24V power input.
- 4 Turn on the AIS-700W.
- 5 Connect to your computer by USB cable.
- 6 Choose "Basic Setting".



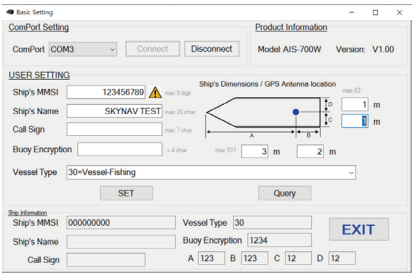
7 Choose the correct COM Port and click "Connect".



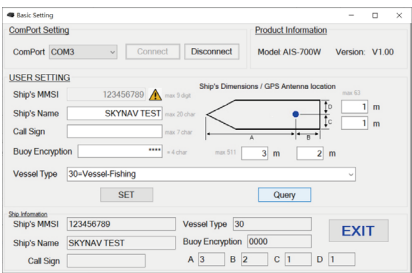
8 Click "Query" to load default setting.



9 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.)



10 Click "Query" to make sure the setting.

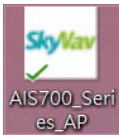


- 11 Click Disconnect and EXIT.
- 12 Power off the AIS-700W.

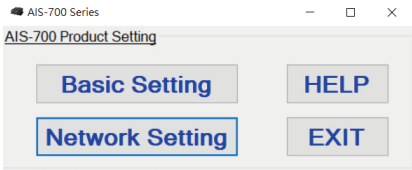
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■ Network Setting

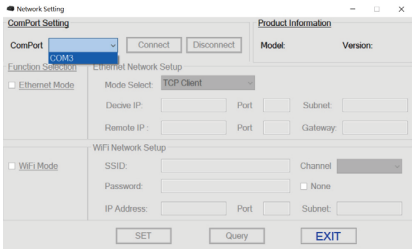
❶ Open the software.



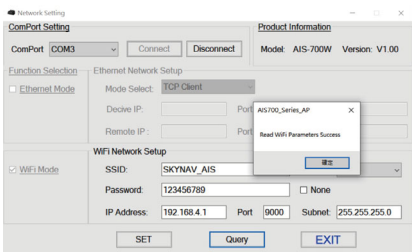
- ❷ Plug in the power cable and provide 12~24V power input.
- ❸ Turn on the AIS-700W.
- ❹ Connect to your computer by USB cable.
- ❺ Choose “Network Setting”.



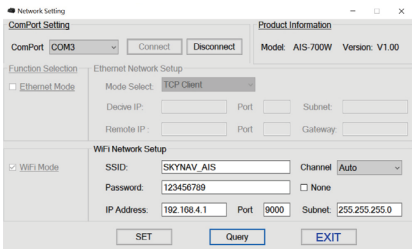
❻ Choose the correct COM Port and click “Connect”.



❼ Click “Query” to load default setting.



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



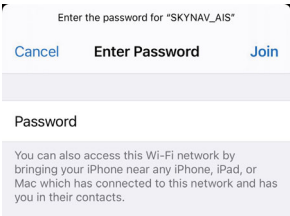
- ❾ Click “Query” to make sure the setting.
- ❿ Click Disconnect and EXIT.
- ⓫ Power off the AIS-700W.

■ 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.



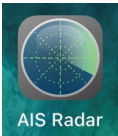
❺ Enter the password and join.



❻ Make sure the Wi-Fi is connected.



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

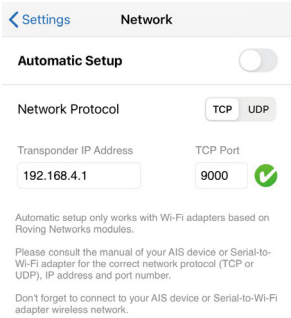


❽ Enter the information of Wi-Fi then click “SET”

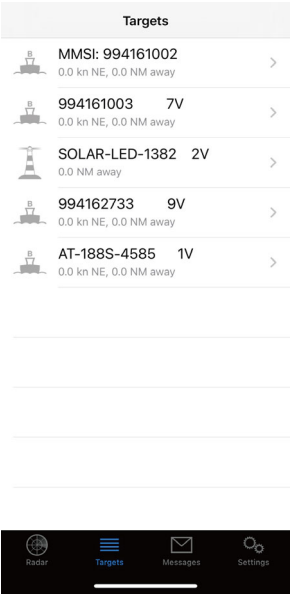
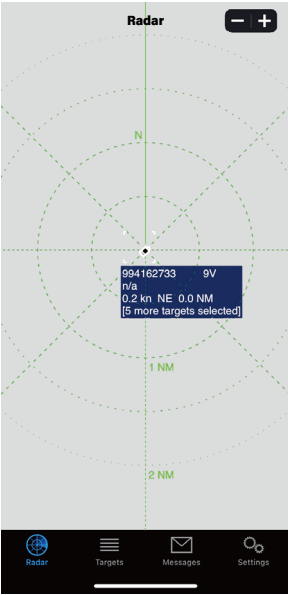


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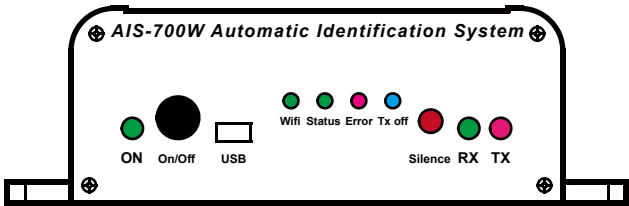
9 Enter the IP address and TCP port.



10 Enjoy it.



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

Tx off (Blue LED)

Steady Light	➔	While Silence button is pushed
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RX (Green LED)

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

Connections Define

	PIN
	1 V-
	2 Reserved
	3 V+
	4 Reserved
Power	
	Cable
Black	V-
Red	V+

	PIN
	1 GND
	2 Reserved
	3 Reserved
	4 T- RS422
	5 T+ RS422
	6 RS232 Tx
	7 RS232 Rx
Data	
	Cable
Black	GND
Blue	Reserved
Yellow	Reserved
Green	T- RS422
White	T+ RS422
Gray	RS232 Tx
Brown	RS232 Rx

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

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.

■ 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)

■ 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