

SKYNAV Technology, Inc.

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Made in Taiwan

## 

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?-----





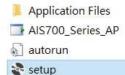






## ■ Basic Setting -----

1 Install our setting software "AIS700\_Series\_AP"



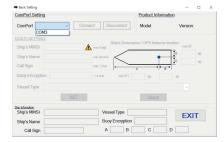
2 Open the software.



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



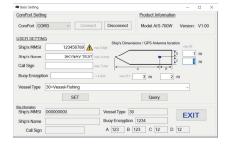
Thoose the correct COM Port and click "Connect".



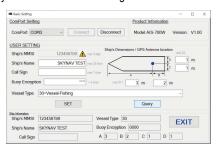
8 Click "Query" to load default setting.



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.)



Click "Query" to make sure the setting.



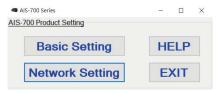
- Click Disconnect and EXIT.
- Power off the AIS-700E.

## ■ Network Setting:Wi-Fi-----

1 Open the software.



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



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



Click "Query" to load default setting.



8 Enter the information of Wi-Fi then click "SET"



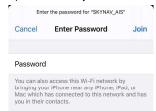
- 9 Click "Query" to make sure the setting.
- Click Disconnect and EXIT.
- 1 Power off the AIS-700E.

### ■ Wi-Fi Connection-----

- 1 Power on the AIS-700E.
- 2 Install the Wi-Fi antenna.
- 3 Open the Wi-Fi list on your smart phone.
- Choose the SSID you set for AIS-700E.



6 Enter the password and join.



6 Make sure the Wi-Fi is connected.



Open the "AIS Radar" (Please download from App store or Google play)



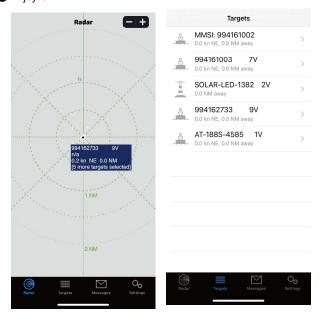
Enter the information of Wi-Fi then click "SET"



9 Enter the IP address and TCP port.



Tenjoy it.



11 Or other APP "UDP/TCP Tool"



Enter the IP address and TCP port.



## ■ Network Setting:Ethernet -----

Open the software.



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



**6** Choose the correct COM Port and click "Connect".



Thoose "Ethernet Mode" then click "Query" to load default setting.



8 Enter the information of Ethernet then click "SET"



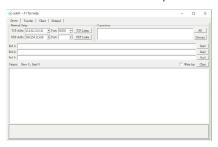
- 9 Click "Query" to make sure the setting.
- Click Disconnect and EXIT.
- 1 Power off the AIS-700E.

### ■ Ethernet Connection-----

- Power on the AIS-700E.
- 2 Install the ethernet cable.
- 3 Open the software "sokit".

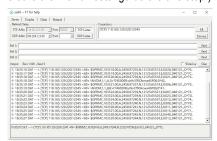


4 Enter the TCP Addr and Port of "Network Setup".



6 Click TCP Listen.

(Please make sure the firewall settings before this step.)



6 Enjoy it.

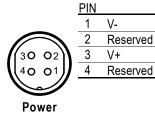
### ■ Connections Define -----

Cable Black

Red

V-

V+





5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
Data			

Cable			
Black	GND		
Blue	Reserved		
Yellow	Reserved		
Green	T- RS422		
White	T+ RS422		
Gray	RS232_Tx		

RS232 Rx

Brown

**GND** 

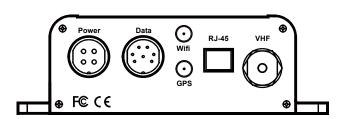
Reserved

Reserved

T- RS422

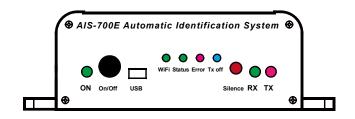
T+ RS422 RS232 Tx

RS232 Rx

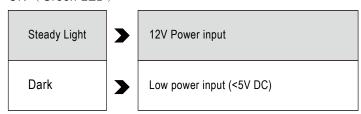


**Rear View** 

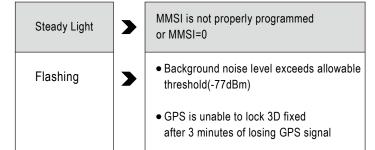
### ■ LED Flash Code-----



#### ON (Green LED)



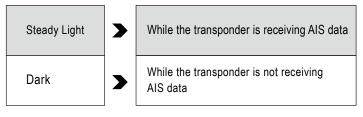
#### Error (Red LED)



#### Tx off (Blue LED)



#### RX (Green LED)



#### 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

- Transponder initialize fail
- 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

# <u>∱</u> Notifications

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

Distrib	utor		
s	old Date: /	/(	dd/mm/yyyy)