



## SAFETY WARNING

IT IS IMPORTANT TO KNOW THIS AIS PILOT PLUG DEVICE IS FOR REFERENCE PURPOSES ONLY. YOU ASSUME ALL RESPONSIBILITY AND RISK FOR THE USE OF THIS DEVICE. PLEASE KEEP LOOKOUT IN SURROUNDING DURING PILOT VESSEL.

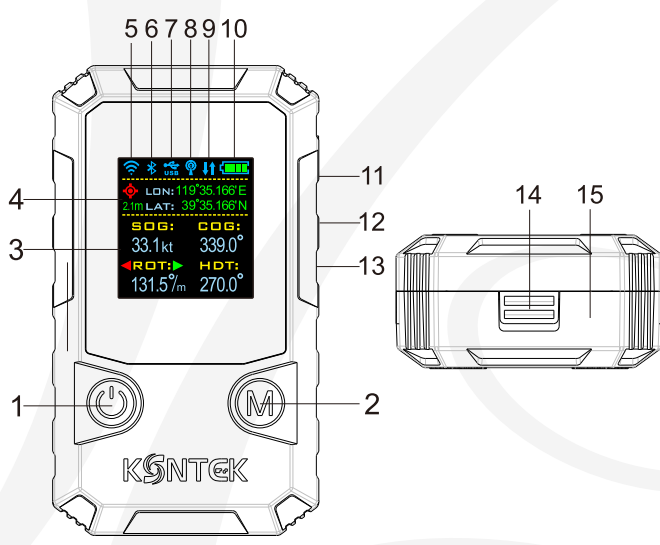
## SPECIFICATIONS

- IMO Standard AIS Pilot Plug interfaces(AMP);
- Automatic polarity corrector for TX+,- in ship side;
- LCD true color display for working status;
- Built-in ROT sensor,Accuracy 0.5°/m,Resolution 0.1°/m; (ROT&HDT Not available value on model **KSN11-B**);
- Built-in GPS+BeiDou+SBAS and working together;
- HDOP:Autonomous<2.5m,SBAS<2.0m average;
- Multiple connections WiFi ,Bluetooth&USB Serial port;
- WiFi 2.4Ghz allows Max 3 clients accessed same time;
- Bluetooth EDR&BLE dual mode,support Ver.2.0~4.0;
- USB Serial port,baud rate 38400bps;
- Wireless receiving AIS datas from AIS Pilot Plug,
- Range 300meters(Request KSN11-F);
- Removable battery 28~40hrs continue working;
- Battery status display on App(request app support);
- Own GPS&ROT NMEA output together with ship's AIS;
- MENU selection on screen for functions ON/OFF;
- Water proof IP55 and Net weight 160g with battery;
- Portable design,Dimensions :94mm\*54mm\* 26mm;

## PACKAGE LIST:

- AIS Pilot Plug unit KSN11-C.....1pcs;
- AIS Pilot Plug cable.....1pcs;
- DC charger DC5.0V 1.2A.....1pcs;
- Micro USB cable for charger.....1pcs;

## DIAGRAM



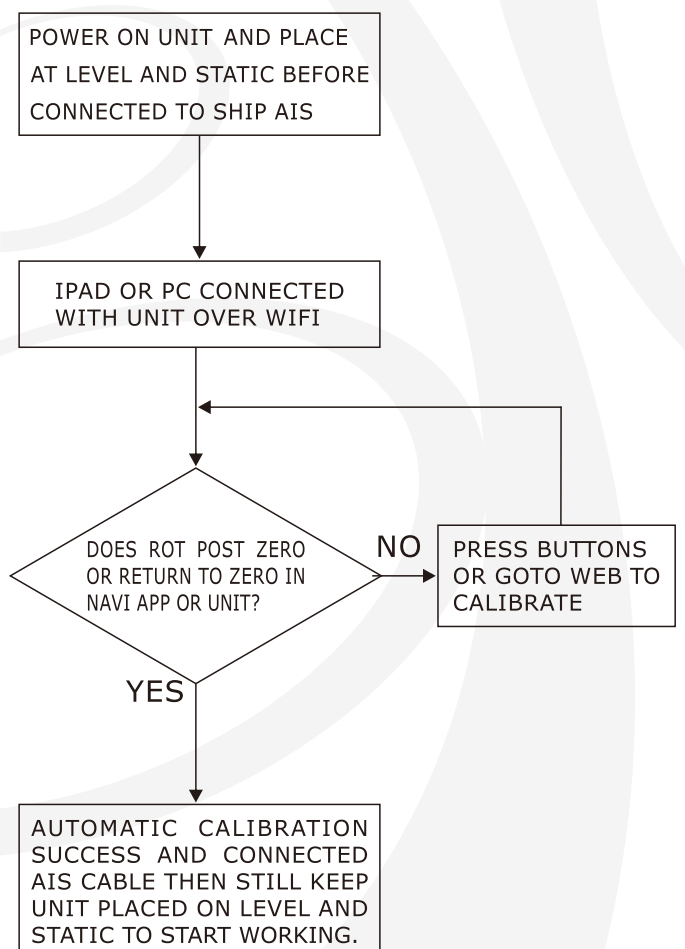
1	Button for <b>Power ON</b> ,Press and Hold on 3s to ON/OFF
2	Button for <b>MENU</b> ,Press and Hold on 3s to enter MENU
3	Display <b>SOG,COG,ROT,HDT</b> , post by unit itself
4	Display <b>GPS position</b> and <b>HDOP</b> after GPS fixed
5	Wi-Fi: <b>Green</b> -connected; <b>Blue</b> -disconnect;Non-Off
6	Bluetooth: <b>Green</b> -connected; <b>Blue</b> -disconnect;Non-Off
7	USB: <b>Green</b> -connected; <b>Blue</b> -disconnect,Non-Off
8	FSK: <b>Green</b> -connected; <b>Blue</b> -disconnect (Request KSN11-F).
9	AIS IN: <b>Green</b> -received; <b>Blue</b> -No input
10	Battery level status: less 5% icon Blink, full charged Standby
11	DC Power input,DC 5.0V 1.2A
12	Reset
13	AIS Pilot Plug input
14	Removable Li-poly battery,capacity 5500mAh
15	Battery lock,push down to release then slide out battery

## ROT CALIBRATION

**Note:Unit Must Far Away From Magnetic Field**  
**ROT functions not available on KSN11-B**

Two way to calibrate ROT: By Hard key or Web page:

- 1.Hard key: Press once the button and together
- 2.Explorer full type in address: **192.168.2.1/ksntek.html**



## CONNECTION

Wi-Fi SSID: **KSN11-C** PASSWORD: **12345678**

Protocol: **TCP** HOST IP: **192.168.2.1** PORT: **8888**

Bluetooth SPP: **KSNTTEK-BT** BLE: **KSNTTEK-BLE**

## WEB CALIBRATION

IE or Safari type **192.168.2.1/ksntek.html** to open page:

### CONTROL PANEL

ROT:

HDT:

CAL:

(CAL INPUT BY CORRECT HEADING FROM SHIP)

**NOTE:** TO USE HEADING SHOULD BE ENABLE "HDT" FIRST, THEN INPUT VALUE IN CAL FOR HEADING CALIBRATE, VALUE CAN BE GOT FROM SHIP'S HEADING. e.g SHIP HEADING IS "180.5" THEN INPUT "180.5" CLIKC SEND.

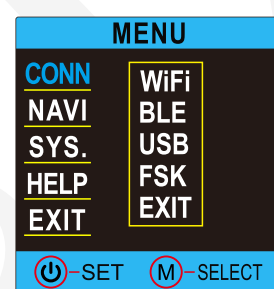
## WORKING MODE

- KSN11-C can be worked with Battery;
- Battery while charging;
- Without battery use DC power only(DC IN);
- With or without battery get power supply(DC IN) from PC USB and transfer data to USB serial port;
- Factory default:All connection modules at ON,GPS ROT ON,HDT OFF;
- Sentence output default: GPS,ROT&HDT at NMEA AIS from ship

**Note:If unit off automatic by battery empty please plug charger on twice that will display battery icon.**

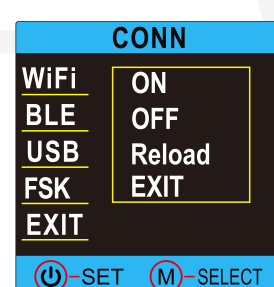
## MENU

Hold on M button 3s to enter the MENU



## CONN

All connection modules can be selected at ON/OFF



WiFi: User can customize WiFi settings by access at 192.168.2.1,user name:admin,password:pilot Reload will let WiFi back to factory default

BLE: Bluetooth,can be OFF if not use.

USB: Can be OFF if not use.

FSK: This module only used when KSN11-F available wireless receiving AIS data,can be OFF if not use.

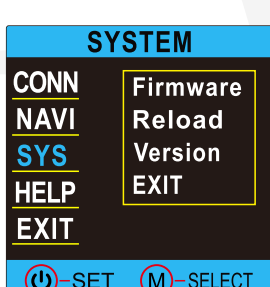
## NAVI

GPS,ROT,HDT can be selected at ON/OFF

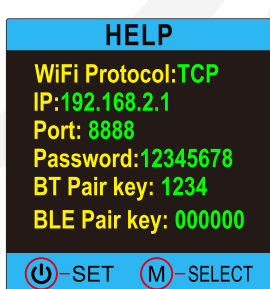


## SYS

All settings will load at factory default after Reload.



## HELP



## INSTALL USB DRIVER

Please install USB driver first before to use USB. PC will find new hardware after connect USB port, then select automatic download from Internet or download Driver at our website.

PC will create a Serial COM Port after driver load successful.goto Windows "Device Manager" to find out COM port number.

Right click on "Computer-Properties-Device Manager-Port"

In Port should be available a device name as:

**"Silicon Labs Cp210x USB to UART Bridge (COMx)"**

Assign this COM number to Navigation Software and set baud rate at 38400bps.



KSNTTEK Electronics Technology QHD Co.,Ltd.

WWW.KSNTTEK.COM

E-mail: info@ksntek.com