Watcheye wifi *Wave*

Thank you for buying the Watcheye **wifi** *Wave.*

This product has been engineered to offer you the highest level of performance and durability and we hope that it will provide many years of reliable service. We constantly strive to achieve the highest possible quality standards, should you encounter any problems with this product, please contact your dealer who will be pleased to offer whatever assistance you require.

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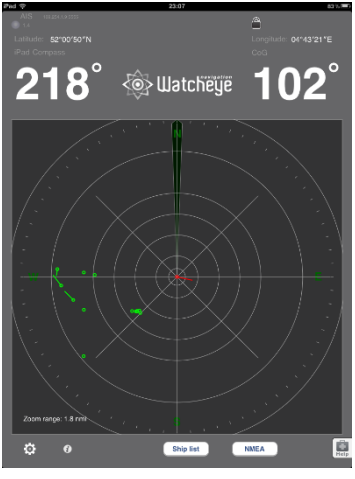
1. Introduction

The Watcheye wifi *Wave* allows data to be exchanged between AIS (and other equipment) and wireless peripheral equipment such as smartphones, tablets and PCs.

The Watcheye wifi *Wave* is **compatible** with all NMEA 0183 devices and with all iOS and Android apps which allow NMEA 0183 data input.



2. NMEA input and output

The Watcheye wifi *Wave* features an NMEA 0183 input to receive AIS data and an NMEA 0183 wired output (besides the wifi output).
It also identifies the sentences coming from any other NMEA 0183 source.
An auto baud rate detection algorithm allows reception of AIS and NMEA data at 4800, 9600, 19200, or 38400 baud. The baud rate is saved in the memory once 10 correct NMEA sentences have been received.

The device also has a multiplex function, combining all data to send them over the wifi link and the NMEA 0183 wired output.

3. Status indicators

The status indicators show the operational status of the *Wave*.
A green LED stands for a correct status. A red LED stands for incorrect status. No LED indicates there's no connection.

POWER	green	Power and connection ok
WiFi	green	transmitting data
	red	Receiving data
NMEA In	green	Receiving data through yellow wire
NMEA Out	green	Transmitting data through white wire
AIS	green	Receiving data through blue wire (only 38.400 baud)

4. Installation

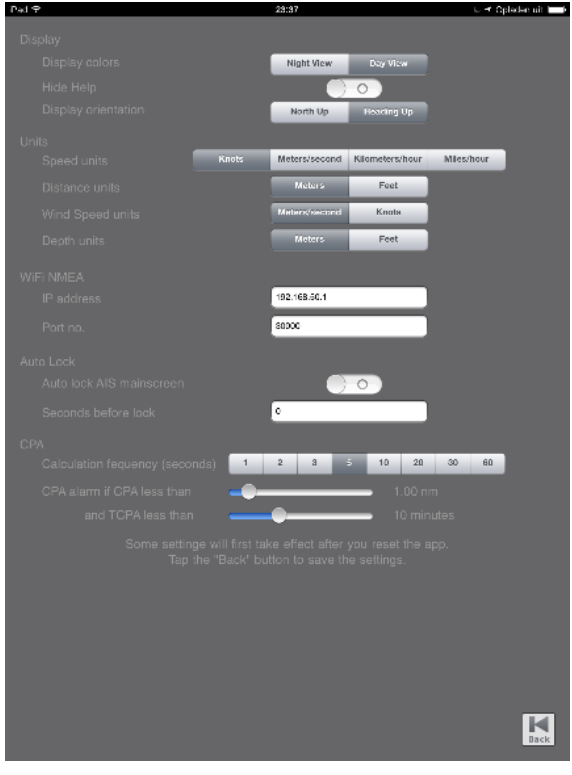
Wire colour codes:

- Braid -12V/ground
- Red +12V
- Blue NMEA 0183 + input 38.400 baud (AIS)
- Yellow NMEA 0183 + input with auto baud rate of 4800, 9600, 19.200 or 38.400 baud
- Green NMEA 0183 + output 38.400 baud (AIS)
- White NMEA 0183 + output

If the *Wave* is installed to transmit data from your Watcheye AIS device (transponder or receiver) connect the AIS' brown wire to the *Wave* blue wire. If the AIS also multiplexes other equipment, disconnect the wire (output +) from this equipment and connect it directly to the *Wave* yellow wire.

5. WIFI connection settings

1. Activate the wifi function on your tablet or smartphone.
2. Select the Watcheye..xxx network (xxx is the serial number)
3. Open the navigation app
4. Adjust the settings to:
   - IP address: 192.168.50.1
   - Port: 30000
   - Protocol: TCP or UDP



6. Technical specifications

Power supply:	9,0-30,0 VDC
Power consumption:	400mW
Modus:	access point (for iOS and Android)
SSID:	Watcheye-xxx (xxx : serial number)
Protocol:	TCP or UDP
IP address:	192.168.50.1
Port:	30000
Channel:	1-11
Frequency:	2,412 – 2,462 GHz
Sensibility Rx:	- 83 dbm
Power:	+ 12 dbm (class 1)
Connections:	1 meter cable - 1 NMEA 0183 38.400 baud AIS entrance - 1 NMEA 0183 with an auto baud rate of 4800, 9600, 19200 or 38.400 baud - 2 NMEA 0183 output of 38.400 baud
Waterproof:	IP54 (splashproof)
Dimensions:	110 x 56 x 25 mm

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