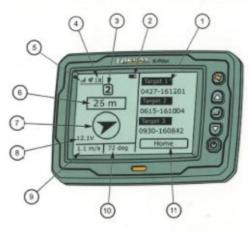


#### What's on the display & Keypad instruction



- 1) Quick Reach Targets
- 2) Strength of display battery
- 3) Instruction icon of autopilot condition
- ( N means North direction; n means backing to HOME point; 1.2.3 means the Quick Reach Target which the boat is running toward)
- 4) Number of GPS Satellites

[Down]

[Power / Exit]

- 5) Strength of radio signal
- 6) Distance to target (or HOME Point)
- 7) Boat heading
- 8) Voltage of X-Pilot transmitter
- 9) Speed of the boat
- 10) Angle between boad heading direction and the north
- 11) Home position

Key	Function		
[Autopilot]	Start / Stop autopilot mode     Switch between pages in the waypoints list		
[Up]	Shortcut to enter waypoints list     Move up menu or increase value of an option		
[Menu / Enter]	1) Confirm a setting / selection 2) Enter the menu settings		
C manual	1] Shortcut to mark current pisition as Home point		

21 Move down menu or decrease value of an option

#### 2.2 Start Autopilot & Back to Home



NOTE: after connecting the X-Pilot to the boat, please refer the [Wiring Test] in charpter 3.1 and confirm the wiring before start autopilot model

1] Power on / off the unit

2) Exit the selection or menu

#### 1) set a HOME point, which is generally the point where you start the autopilot



- 1) Push the [Down] key, then appears an message-box to confirm if you would like to set the current location as HOME point.
- 2) Select [Yes] to confirm.



#### 2) load an prestored target point to start the autopilot



- 1) Push the [Autopilot] key, the cursor would blink and point to the target.
- 2) Move the [Up ] / [Down] key to select an Quick Reach Target then push [Autopilot] or [Enter] key to confirm the selction. An message-box appears to remind if you will start the autopilot.
- 3) Select [Yes] to start the autopilot.



NOTE: during the autopilot, push & pull the joystick of your remote to MAX / MIN position could stop the autopilot mode.





#### 3) back to Home

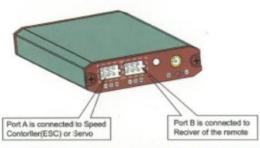


After the boat arrived the target, autopilot will be finished automaticly. Then you could choose guiding the boat back to HOME point.

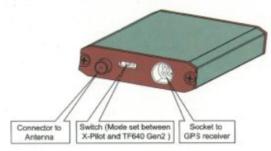
Like the operation in step 2, please chose Home as the target and start the autopilot. The boat will run back to the HOME accordingly.

#### 2.1 Connections of Transmitter

The following figures instruct how to connect the transmitter of X-Pilot with your ball beat. The system could control most 2 engineers or 1 engine (with rudder) boat with proper settings.



	transmitter connection & function				
	Port A		Por B		
Xboat mode	Right Motor	Left Motor	channel-3	channel-1	
2 Engines	Right Motor	Left Motor	channel of motor	channel of motor	
1 Engine	Motor	rudder	channel of motor	channel of rudde	



#### 2.3 Save a waypoint & set a Quick Reach Target

#### How to save a waypoint?

X-Pilot could save up to 500 waypionts in the memory.



- 1) Push the [Up] key to enter into the waypoint interface.
- 2) Move the [Up] or [Down] key to select an
- 3) Push [Enter] key. An message-box appears remind if you will save the waypoint.
- 4) Select [Yes] to comfirm.





#### How to set a Quick Reach Target



NOTE: the autopilot only can be started from the 3 Quick Reach Target (and Home point). So, before you start the autopilot, please load a waypoint from the waypoint list and set it as a Quick ReachTarget:



- 1) Push the [Enter] key to enter into the menu setting.
- 2) Push the [Enter] key again to enter into the Waypoint interface.
- 3) Move the [Up] or [Down] key to select a waypoint, then push [Enter] key. An option selection message-box appears
- 4) Move the [Up] or [Down] key to select a Quick Reach Target position, then push [Enter] key to
- 5) Select [Yes] on the confirm dialog. Then the waypoint was saved as one Quick Reach Target successfully.



Save to Target 1 Save to Target 2 Save to Target 3 Mew Waypoint Deleted

### 3.1 X-Pilot Setting

#### Wining Test

NOTE: before making the test, please check [Boat Option] in Chapter 3.2 and choose the relative boat option according to the type of your boat.

After you finished all the connections between X-Pilot and your boat, please use the [Wiring Test) to test the motor (or rudder) to sure the sylem could control the boat properly.

- Go Forward: test if the boat can go forward correctly
- Turn Left: test if the boat can turn left correctly.
- Turn Right: test if the boat can turn right correctly .



NOTE: after one test option was confirmed with [Enter] key, a message-box will appear:





( NOTE: if you find the motor (or rudder) does not run at the correct way, please enter [Advanced Set.] / [CH Reverse] menu to reverse the relative channel.

#### RF Channel

When more than one user operate the X-Pilot at the same time, it is necessary to choose a different channel for each user to avoid the possible radio interferance.

#### Compass Cali.

Used to make the calibration of compass. After install X-Pilot to a new boat or move to an new environment, strongly recommend to re-calibarate the compass.

NOTE: DO NOT calibirate the compass in a house or car!

#### Boat Option

X-Pilot can work with most kinds of bait boats (with 2 engines or 1 engine & rudder). So, before you start the operation, please select the corresponding boat type.

- X-Boat: specially for Toslon X-Boat.
- . f Engine: for the boat designed with 1 engine (and rudder).
- 2 Engines: for the boat designed with 2 engines.

NOTE: after you changed and confirmed a new boat option, a message-box will appear:

Mode Setting...

\*\*\*\*\*\*\*\*\*

#### CH Reverse

During you made [wiring test], [CH Reverse] is used to correct the running direction of motor (or runder) after you found them did not run the correct direction as expecied.

For example, if your boat are with 2 engines, and you found the motor was running the counter direction when you push [Go Forwarder] in the [wiring test], then please enter into [CH Reverse] and select CH2 Reverse.

- . CH1 Reverse: to correct the running direction of rudder.
- . CH2 Reverse: to correct the running direction of motor.

#### Channel Limit

Used to limit the Max speed which your boat can get when it work with X-Pilot.

#### Dev. Mode

Used to enter developing mode for engineer festing.

# Anivenced Set. Boat Option CH Reverse Channel Limit Dev. Mode X-Boat 1 Engine

## Advanced Set. Boat Option CH Reverse

2 Engines

Dev. Mode

CH1 Reverse

CH2 Reverse

#### 3.3 Menu List

Waypoints		List of stored waypoints
X-Pilot Setting	Wiring Test	Test if the X-Pilot could control the boat properly
	RF Channel	Set different RF channel to allow more than one users operating the device in the same region without arry radio interference
	Compass Cali.	Used for calibration of compass
System Setting	Beeper	Set if the unit sound a tone or not when a key is pressed
	Backlight	Allow the unit to be used at night
	Contrast	To get a suitable display when operate the unit
	Boat Voltage	Sounds when the input battery voltage of transmitter is equal to or less than the setting
	Dsp. Voltage	Set if the display sounds with warning message when the input battery voltage of display is low enough
	Time Zone	Selects time zone for using in different countries
	Language	Select the display language for menus
	Load Default	Used to restore original factory setting
Advanced Set.	Boat Option	Select boat type to match X-Pilot setting
	CH Reverse	To correct the running direction of motor (or rudder)
	Channel Limit	Limite the max speed of boat (with X-Pilot built in)
	Dev. Mode	Developing Mode for engineer test
System Info.		Show system information of device

#### Specifications & Features

Specificati	ons		
Display	Display size:	4.3" FSTN, Black & white	
	Display resolution:	240x160 Pixels, Visible under sunlight	
	Language:	English (future update: German / French / Russian)	
	Failing-safe:	YES (the X-Pilot would alarm when lost the remot signal)	
	SD card storage:	YES	
GPS & R/F	Radio frequency:	433Mhz / 2GFSK	
	Radio Power:	20dBm (Max 800ft RC distance , depending on weather and environmental conditions)	
	Waypoints Number:	500	
	Quick Reach Targets:	4 (include the Home position)	
	GPS Receiver Type:	50 Channels	
	Compass Update Rage:	10Hz	
Power	Power for X-Pilot CCU:	DC 6-16V	
	Power for the display:	Li battery (BL-5C)	

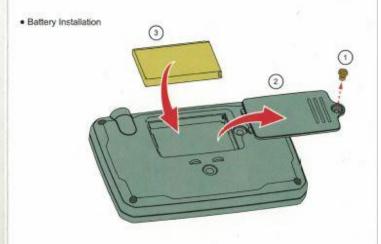
#### Features

- One-button pushing to quickly start autopiloting
- Quickly saving Home point
- · Automatically steer straight ahead
- Easy operation with quick saving / loading waypoints
- Easy program upgrading with SD card
- · Quickly fixed to remote with special metal bracket (optional)

For the details of product, please visit TOSLON website and download the manual http://www.toslon.com

Features and specifications listed are the most recent available at the time of printing and are subject to change without noise. Yachting Electronic Co., Ltd reserves the right to change or improvements in its products without incurring the obligation to install such changes or improvements on equipment of items previously manufactured.

#### Battery installation & Charging



· Battery Charging

