

## 1. Introduction

X3, a 2.8-inch monitoring display screen crafted by HALI, is ideally suited for monitoring lithium battery systems on small fishing boats. Its compact design, coupled with a robust waterproof build, ensures high cost-effectiveness and reliability. Whether for fresh or saltwater environments, X3 meets the outdoor installation and usage needs of users, providing a seamless monitoring experience.



## 2. Installation and Wiring

Connect the M12 interface on the back of the product to the 'COM' port of the lithium battery via a communication cable for power supply and communication functions.

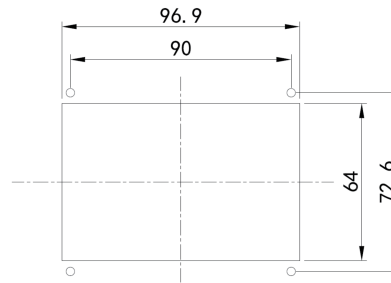
1

## 2.1 Install Instructions

- 1). Cut slots and drill screws to fix the slots as per slot size.
- 2). Remove the decorative buckle strips on the upper and lower sides of the product.
- 3). Connect the communication cable on the back of the product and tighten the nut on the plug.
- 4). Lock the product into the slots with M3 screws.
- 5). Re-press and fasten the decorative strips on both sides.

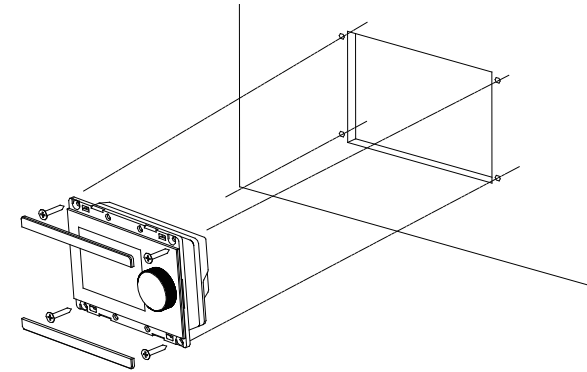
## 2.2 Installation Steps

- 1) .Slot Dimensions.



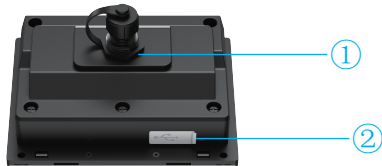
2

- 2) .Embedded Installation Diagram (Use M3 screws).

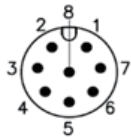


3

## 3. Product interface



- ①. M12-8Pin Communication interface



NO.	Definition
Pin 1	CAN_L
Pin 2	DC12V
Pin 3	GND
Pin 4	Remote On/Off COM
Pin 5	RS485_A
Pin 6	Remote On/Off ON
Pin 7	CAN_H
Pin 8	RS485_B

- ②. Type-C Port: USB2.0

4

## 4. Operation

### 4.1 Switch on battery

Press and hold the knob for 3s to turn on the lithium battery.

### 4.2 Knob operation

- **Select**: rotate the knob to choose between options.
- **Confirm**: short press the knob once to confirm your option.
- **Return**: switch to ↶ sign and press the knob once to return to previous page, or quick press the knob twice to return to home page.

### 4.3 Switch off battery

Press hold the knob until the shutdown page pops up, and hold press for 3s as the progress bar shown, to switch off the lithium battery.

5

## 5. Datasheets

Outer Dimensions	103.5mm*79mm*44mm		
Screen Dimensions	43.2mm*57.6mm (2.8" TFT screen)		
Display Resolution	480*640pixels	Aspect Ratio	16:9
Luminance	800cd/m <sup>2</sup>	Backlight Mode	LED
Operating Voltage	12V	Operating Current	220mA(average)
Operating Temperature	-20°C~+70°C	Operating Humidity	10%~80%RH
Weight	200g	IP Rating	IP67
Communication	RS485/CAN	Certificate	CE FCC

## 6. Precautions

- 1). Do not scratch or hit the screen with sharp objects.
- 2). Use the provided silicone cover to protect the screen when it is not in use for a long time.

6