Contents

1. What's new about Controller30?

New features	
NMEA 2000/CANBUS	NMEA 2000 support
Remote control	Full control on the software, fully functional (Controller is optional)
microSD	1 slot
HDMI	Video output

Unit Hardware	
Power supply	10-35 Vdc
Power switch	On Rubber keypad
Storage temperature	-20 +80 °C
Operating temperature	-20 +60°C
Buzzer	Internal

Main board	
CPU	Cortex A9 1Ghz
iNAND	4 GB
RAM	512 MB
Remote control	Radio 2.4Ghz

Software design	
UI concept	Redesigned to improve the usability with keyboard and remote control
Graphics	High contrast color palette
Menus	Single level, directly from the map
Data boxes on map	1 or 2 vertical columns on the right, with 5 databoxes each, with editable content
Cursor or fix menu	Pop up menu
Cursor info	Dedicated data box on the map

2. HMI and Menu tree introduction
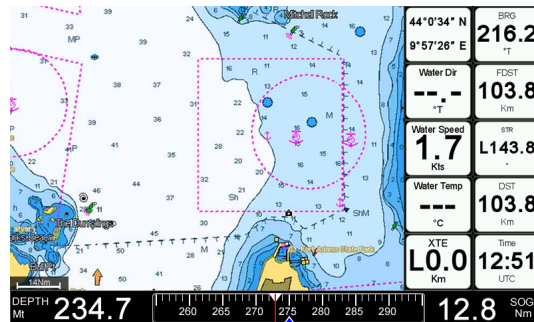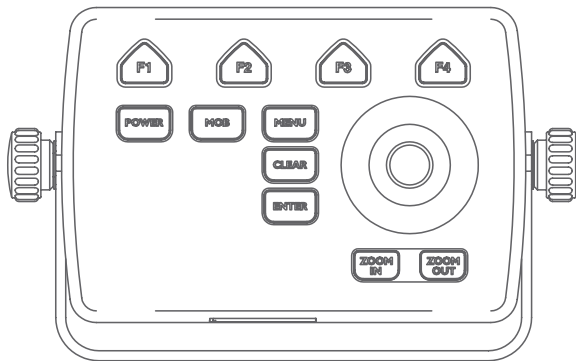
Map Page

ENTER

MENU

Fix or cursor menu

On cursor:
• Go to
• Clear route (if route active)
• Mark
• New route
• Info
• A-B
(other actions as delete and edit enabled in case of marks and wps)

On fix:
• Clear route (if route active)
• Mark
• Course predictor
• Track on/off
• Info
• A-B
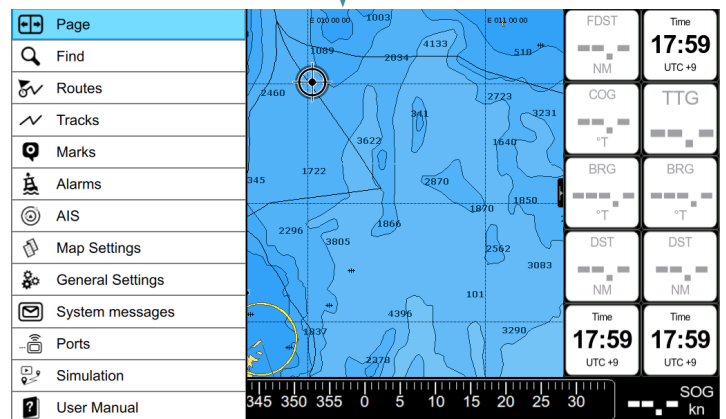
Main menu (Map)

• Page
• Find
• Routes
• Tracks
• Marks
• Alarms
• AIS
• Map settings
• General settings
• System messages
• Ports and connections
• Simulation
• User Manual

Old controller:
with the re-design, the new Controller 30 introduce the single level menu, inspired by the old controller approach.

3. Main menu tree and Settings

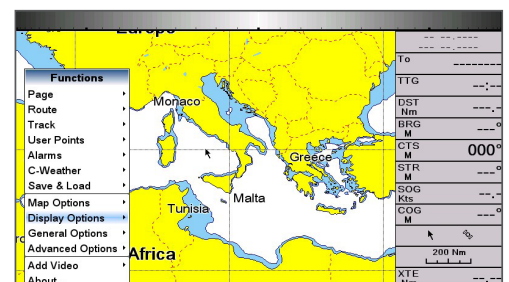Main menu content is contextual to the page. For instance, the same menu on Fish Finder page contains also the issues related to the FF settings and functions.
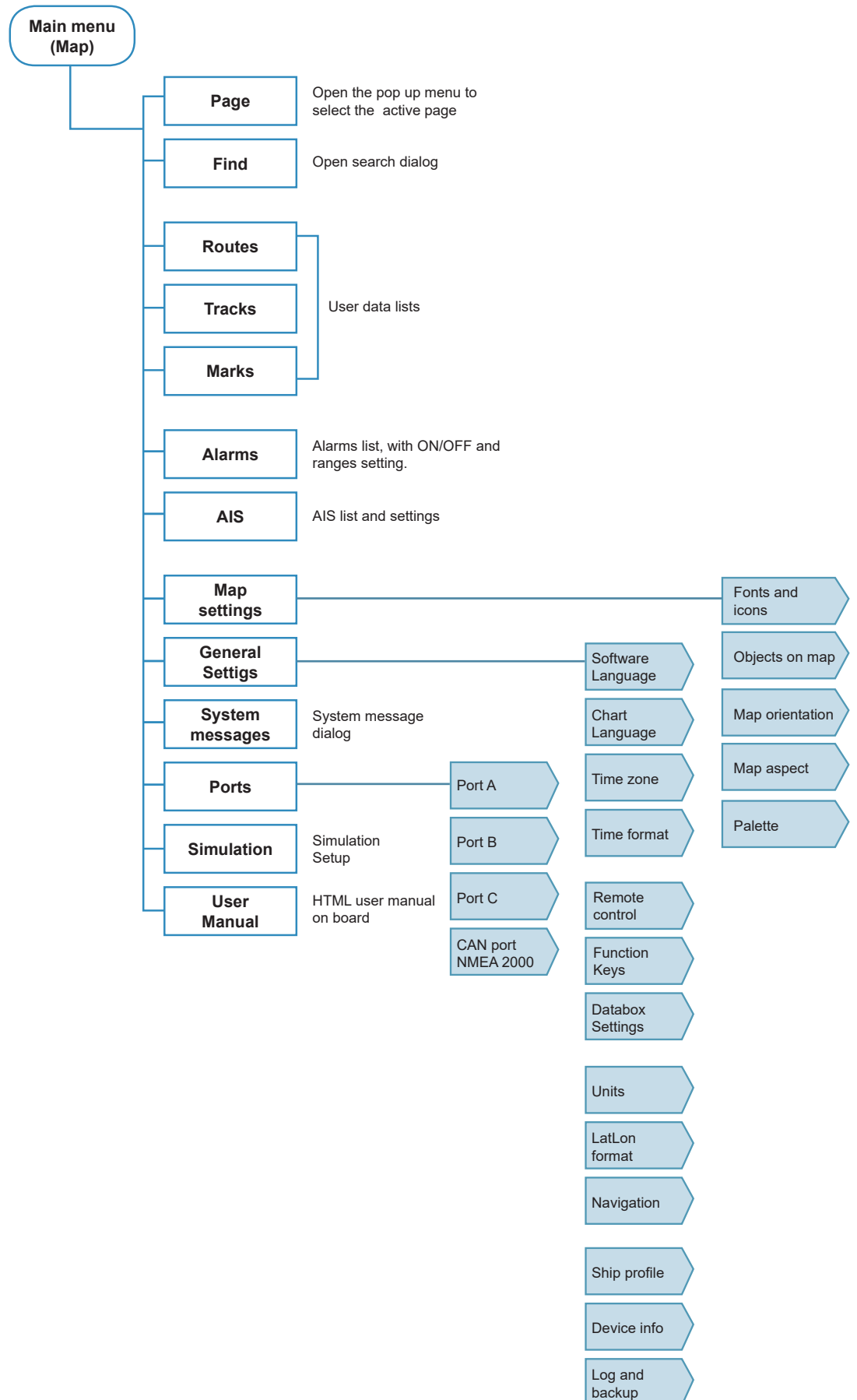
The diagram on the right refers to the main menu open from map page.

Page	
Find	
Routes	
Tracks	
Marks	
Alarms	
AIS	
Map Settings	
General Settings	
System messages	
Ports	
Simulation	
User Manual	

Map Main Menu

Page	
Frequency kHz	
Range Mode	
Gain Mode	
Transducer setup	
Sensitivity	
Display Settings	
Alarm Settings	
General Settings	
System messages	
Ports	
Simulation	
User Manual	

FishFinder Main Menu

Main menu (Map)

- **Page** — Open the pop up menu to select the active page
- **Find** — Open search dialog
- **Routes**
- **Tracks** — User data lists
- **Marks**
- **Alarms** — Alarms list, with ON/OFF and ranges setting.
- **AIS** — AIS list and settings
- **Map settings** → Fonts and icons
- **General Settigs** → Software Language → Objects on map
- **System messages** — System message dialog → Chart Language → Map orientation
- **Ports** → Port A → Time zone → Map aspect
- **Simulation** — Simulation Setup → Port B → Time format → Palette
- **User Manual** — HTML user manual on board → Port C → Remote control
  - CAN port NMEA 2000 → Function Keys
  - Databox Settings
  - Units
  - LatLon format
  - Navigation
  - Ship profile
  - Device info
  - Log and backup

4. Full and combo pages
4.1 How to change the page

Main menu (Map)

Page

The Page button on main menu opens the Page widget, a pop menu on map with the list of the available pages. Use the joystick to select the desired page and press ENTER.
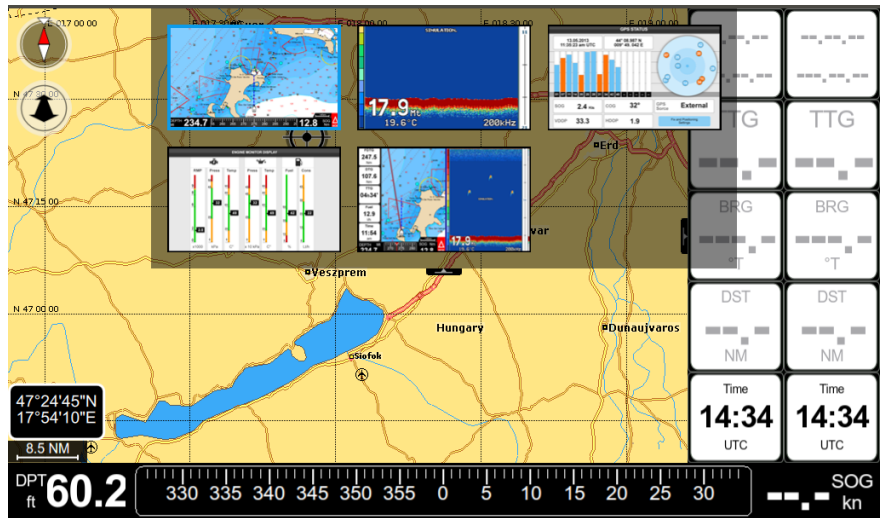
4.1 How to move the focus in combo pages

By default, in the combo page Map + FishFinder the focus is on the map.

To move the focus, press MENU and then use the Joystick LEFT-RIGHT:

Map Page (1)

↓

MENU

↓

Main Menu (Map) (2)

↓

MENU

↓

The focus is moved on the Fish Finder page, with the Main Menu (FF) still visible. (3)

1

2

Page
Find
Routes
Tracks
Marks
Alarms
AIS
Map Settings
General Settings
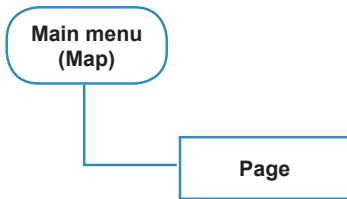System messages
Ports
Simulation
User Manual

3

Page
Frequency kHz
Range Mode
Gain Mode
Transducer setup
Sensitivity
Display Settings
Alarm Settings
General Settings
System messages
Ports
Simulation
User Manual

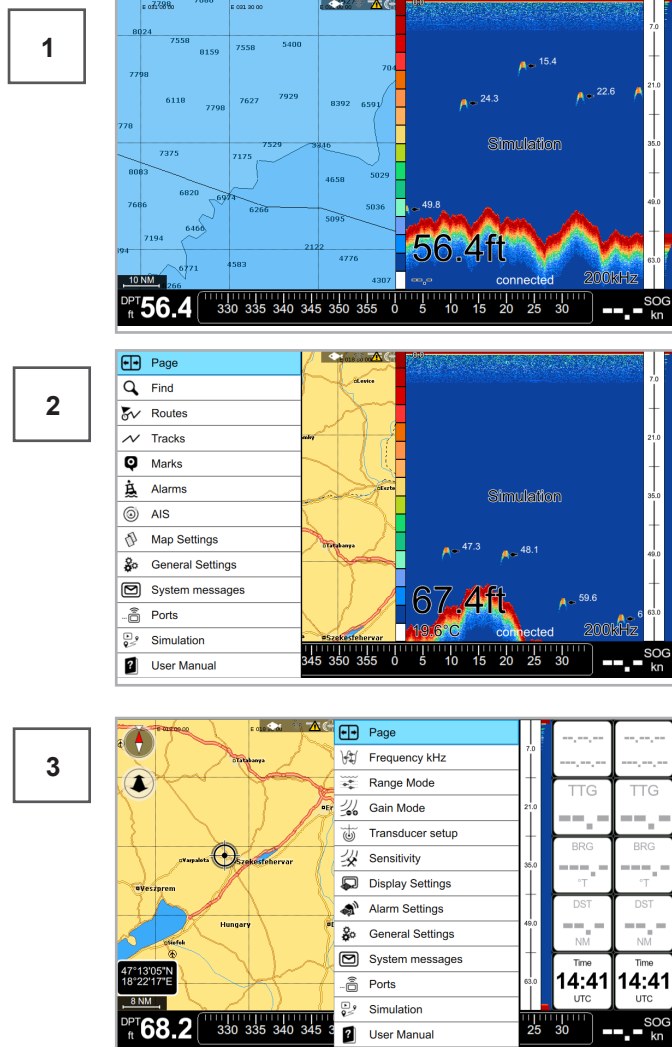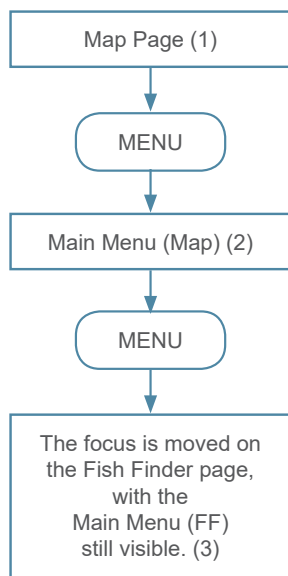AVMAP CONFIDENTIAL Any reproduction, usage, publication and disclosure to third parties is forbidden.

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5. Settings dialogs

Settings page are divided in 2 parts:
1. Tabs: The list of issues.
2. Dialog: It is the content of each tab and contains the settigs available for the selected issue.

Move the focus horizontally, between tabs list and dialog

Move the selection vertically
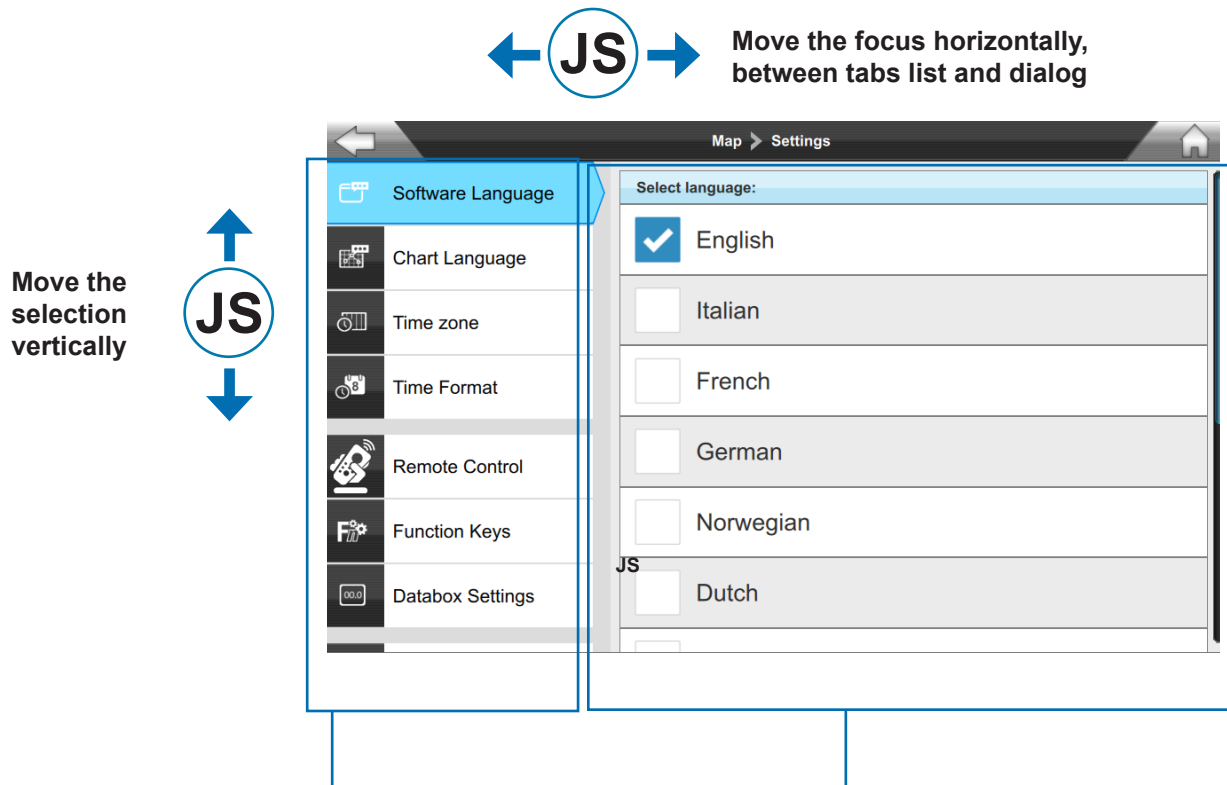
TABS:
1. Use the joystick UP-DOWN to scroll the tabs.
2. To select a tab and move the focus to the dialog page, press ENTER or use the joystick RIGHT.

DIALOG:
3. Use the joystick UP-DOWN to scroll the rows.
4. Press ENTER to select the option and act on the control.
5. Use the joystick LEFT to move the focus back to the tabs.
6. Press CLEAR to close and comeback to map.

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6. Function keys

Use Function Keys dialog to customize the function related to F keys on keyboard.
Press ENTER on the FX row to open the popup list of options.

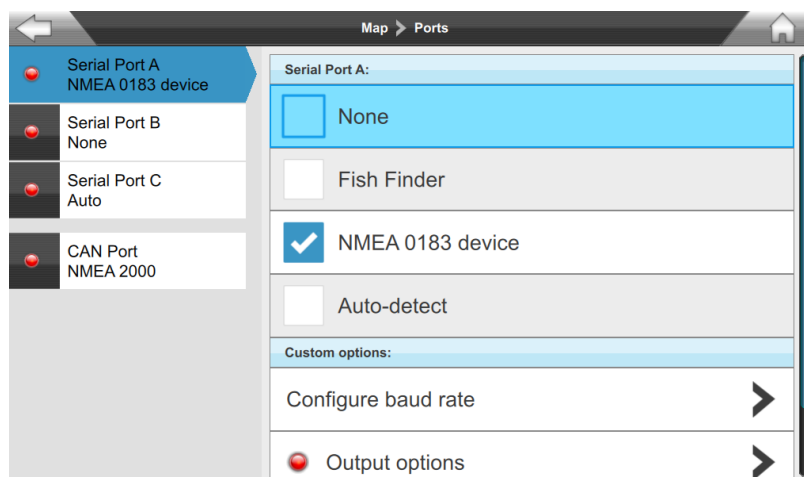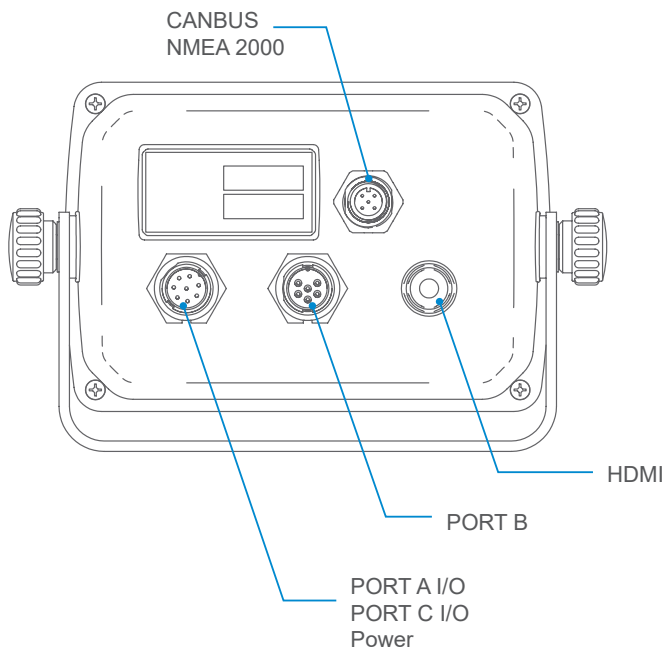|	Map > Settings
Software Language	F1 — Start GoTo
Chart Language	F2 — 2D/3D Switch
Time zone	F3 — Next Page
Time Format	F4 — Help/Manual
Remote Control	
Function Keys	
Databox Settings	
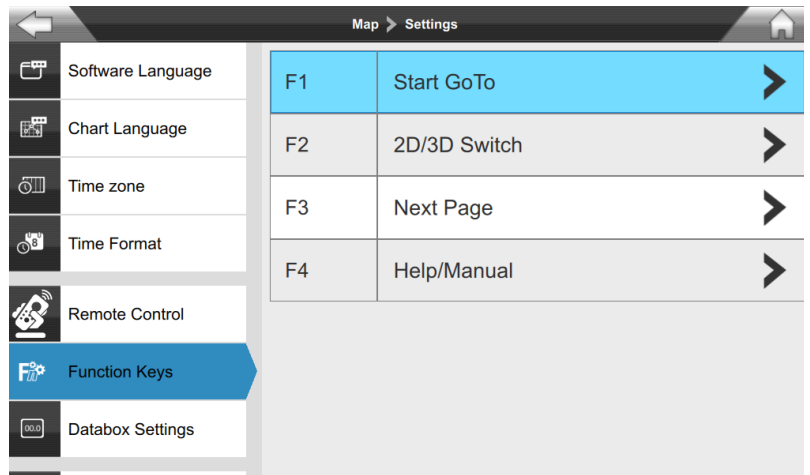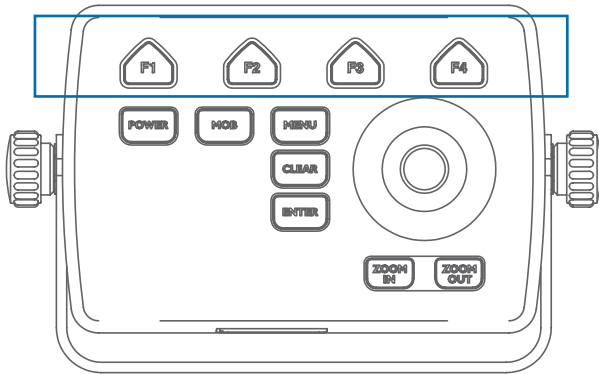
7. Ports

Use Ports dialog to customize the connections. On tab related to each port, an icon shows the status:
• Blue: receiving data
• Red: not receiving

	Map > Ports
Serial Port A NMEA 0183 device	**Serial Port A:**
Serial Port B None	None
Serial Port C Auto	Fish Finder
CAN Port NMEA 2000	✔ NMEA 0183 device
	Auto-detect
	Custom options:
	Configure baud rate
	Output options

CANBUS
NMEA 2000

HDMI

PORT B

PORT A I/O
PORT C I/O
Power

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7. Remote control

Menu

Zoom
(Tilt; Rotate)

Back

Cycle

Switch
wheel
function

Mark
(MOB)

Compass

7.1 How to insert the battery

1

2

3

4

5

6

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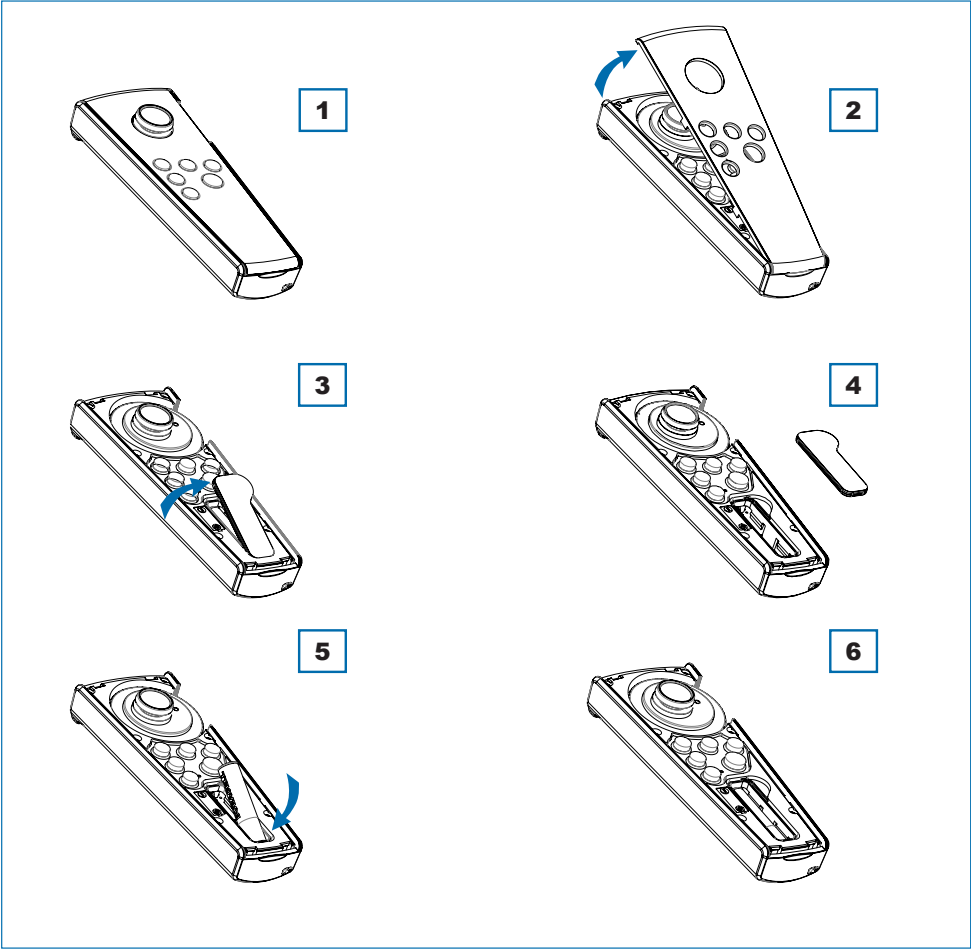
7.2 How to enter the PIN for pairing

Map Page

↓

ENTER

↓

Menu

↓

Select
General settings

↓

ENTER

↓

Select
Remote control

↓

ENTER

↓

Select the row
PIN

↓

ENTER

↓

Use the virtual keyboard
to enter the PIN

↓

ENTER

PIN CODE

Map ⟩ Settings

Software Language	Remote control receiver	
Chart Language	PIN	048C ❯
Time zone	Reset	❯
Time Format		
Remote Control		
Function Keys		
Databox Settings		

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