

C-MAP 4D

Customizing the way you navigate.



Quick Start Guide

Furuno 1670F / 1870F



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INTRODUCTION

C-MAP 4D is an all-in-one charting solution offering standard vector chart features you have come to expect from C-MAP MAX plus Raster Charts, 3D views, satellite imagery, Easy Routing and Value Added Data, all easily customized to your boating needs. C-MAP 4D also delivers continuous updates that can be managed online, providing another way to customize navigation data to enhance your boating experience.

C-MAP 4D Content

C-MAP 4D is composed of separate content layers that can either be “locked” - not visible by the chart plotter or “unlocked”- visible.

C-MAP 4D content includes (see [C-MAP 4D Features](#) for additional details):

- **4D MAX**
- **FULL 4D**
- **VAD**

Media

All C-MAP 4D cards are Secure Digital (SD) format with BLUE stickers.



Coverage and Pricing

C-MAP 4D comes in WIDE coverage areas at the best value. Additionally, C-MAP 4D features and content can easily be managed online.

4D MAX	FULL 4D	VAD Bathymetric	VAD Sport Fishing
\$199	\$299	\$149	\$49

For a complete list of C-MAP 4D coverage, please visit our online chart catalog at www.jeppesen.com/lightmarine.

C-MAP 4D FEATURES

With C-MAP 4D, you invest in a navigation solution that evolves to your boating needs.

4D MAX

When you choose 4D MAX content you get all the features of C-MAP MAX cartography, including:



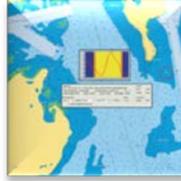
Detailed Nav-Aids



Multi-Language Charts



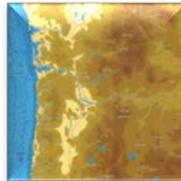
Guardian Alarm



Tides & Currents



Detailed Harbor Charts



Shaded Depths & Land Elevations



Port Plans



Perspective View



Route Checking



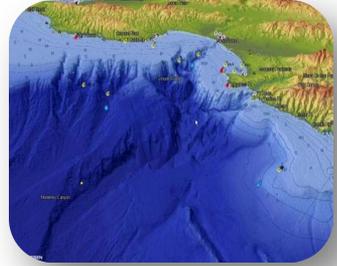
Photos & Diagrams

FULL 4D

Add **FULL 4D** content to get the latest technology and navigation features, including:

3D-View

3D View uses advanced digital terrain modeling on land and sea resulting in an exceptional presentation of C-MAP cartography.

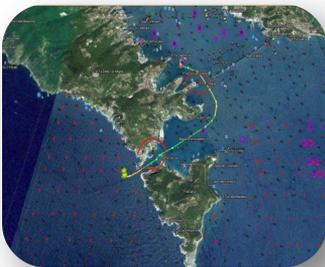
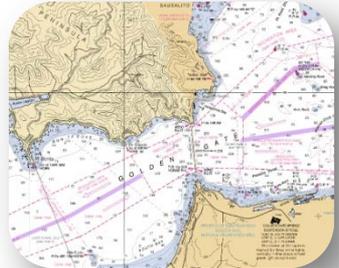


High-Resolution Satellite Imagery

See the real world on-screen using High-Resolution Satellite Imagery found only in 4D.

Digital Raster Charts

Only within 4D do you have the ability to overlay official nautical paper charts on top of C-MAP 4D vector data.



Easy Routing

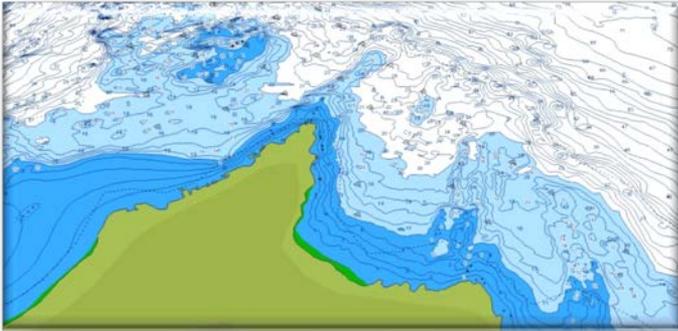
Automatically create routes from points A to B. The calculated route offers guidance within each route leg, thereby avoiding obstacles, shallow waters and dangerous areas.

Value Added Data

Value Added Data expands the features of C-MAP 4D by providing additional layers of customizable proprietary data, including:

High-Resolution Bathymetry

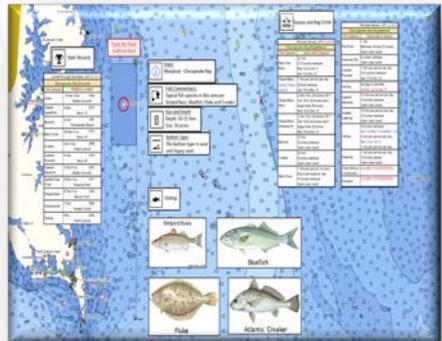
High-Resolution Bathymetry is a unique layer of proprietary Jeppesen data, designed specifically for fishing. HRB offers amazing depth and contour detail of ledges and canyons, giving you the most detailed profile of the ocean bottom.



Sport Fishing Data

Sport Fishing Data is an extensive collection of private and public sport fishing information from valued sources including NOAA, Coast Side Fishing and Baja Directions. Each sport fishing hot spot includes:

- Artificial Reefs
- Wrecks
- Hangs
- Fish ID images
- Obstructions
- Up-to-date state rules, records and regulations



MAKE THE MOST OF 4D

Easily navigate the features of C-MAP 4D in your Furuno chartplotter using the quick steps below.

Plotter Controls - Overview

The control keys on the Furuno GP1670F and GP1870F containing two labels have dual functions. The top label is the main function and can be accessed with a SHORT-PUSH. The bottom label is the secondary function and can be accessed with a LONG-PUSH.



HOME/CTRL	Short Push	Displays home page.
	Long Push	Switches display in combination modes.
ENT		Confirms operation.
ESC/MENU	Short Push	Escape from current operation.
	Long Push	Opens the menu.
POINTS/GO TO	Short Push	Places point at cursor.
	Long Push	Sets cursor position as destination.
ROTOKEY	Short Push	Displays base soft controls / current mode.
	Long Push	Displays full soft controls / current mode. Zoom/Tilt/Rotate/Enter
EVENT/MOB	Short Push	Places point at current position.
	Long Push	Put MOB at current position.

3D-View



3D is viewable within the **Vector**, **Raster** or **High-Resolution Satellite Imagery** chart layers.

Enable 3D-View

1. **RotoKey** [*short push*].
2. Select **2D/3D MODE**.
3. Under **3D**, select: Vector, Satellite or Raster.

Title and Rotate 3D-View

1. **RotoKey** [*long Push*].
2. Select **MODE** then **MANUAL**.
3. Hold in the **ENT** key to enable adjustments.
Adjustments are enabled when the 3D icon appears on-screen.
4. Use the cursor pad to **TILT** (*up/down*) or **ROTATE** (*right/left*) the 3D-View.
5. Hold in the **ENT** key to confirm settings.



**3D Icon
Adj. Enabled**

Exaggerate 3D-View

Expand object, chart and underwater features using the exaggeration feature.

1. **ESC/MENU** [*long push*].
2. Go to **MAP** then **CHART DISPLAY**.
3. Select **3D EXAGGERATION**. Choose between five levels with 5 providing the highest level of exaggeration.

High-Resolution Satellite Imagery



Overlay **High-Resolution Satellite Imagery** onto the most accurate vector data, viewable in 2D and 3D modes.

Overlay High-Resolution Satellite Imagery

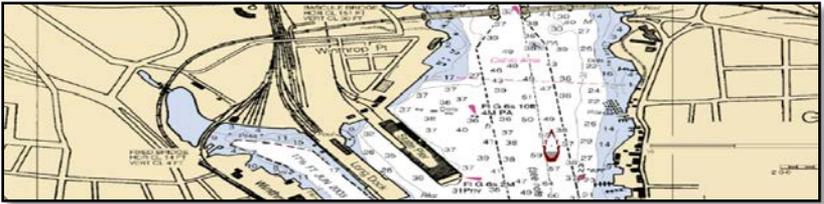
1. **RotoKey** [*short push*].
2. Select **2D/3D MODE**.
3. Choose from:
 - 2D
 - 2D Perspective (*Vector/Satellite*)
 - 3D (*Satellite*)

Satellite Transparency

Adjust the transparency for High-Resolution Satellite Images not on water.

1. **ESC/MENU** [*long push*].
2. Go to **MAP** then **CHART DISPLAY**.
3. Select **TRANSPARENCY**. Choose between 0-100; with 100 offering the highest level of transparency.

Digital Raster Charts



The **Raster Chart** overlay found within FULL 4D provides an additional navigational reference source while allowing access to vector chart detail, including: *navaids info, wrecks, obstructions, etc.* Viewable in 2D and 3D modes.

Overlay Raster Charts

1. **RotoKey** [*short push*].
2. Select **2D/3D MODE**.
3. Choose from:
 - 2D
 - 2D Perspective
 - 3D

Exaggerate Raster Charts

1. **ESC/MENU** [*long push*].
2. Go to **MAP** then **CHART DISPLAY**.
3. Select **3D EXAGGERATION**. Choose between five levels with 5 providing the highest level of exaggeration.

Raster Transparency

1. **ESC/MENU** [*long push*].
2. Go to **MAP** then **CHART DISPLAY**.
3. Select **TRANSPARENCY**. Choose between 0-100; with 100 offering the highest level of transparency.

Easy Routing



Easy Routing calculates the safest possible route from start to end points. The proposed route will display a level of safety for each leg, thereby avoiding obstacles such as: *Nav-Aids, Rocks, Obstruction, Shallow waters, Dangerous Areas and Bridges.*

IMPORTANT: The suggested route must be checked, edited and approved before using for navigational purposes.

Setup Easy Route

1. **ESC/MENU** [long push].
2. Select **PLOTTER** then **EASY ROUTING**.
3. Set the following safe values:

<u>Safe Value</u>	<u>Description</u>
Safe Depth	Vessel's Draft. 3.3 – 65.6 (ft).
Safe Height	Vessel's Minimum Height Clearance. 6.6 – 164.1 (ft).
Safe Corridor	Minimum width of Path. 0.0011 – 0.0099 (nm).
Time Out	Maximum time allowed for route calculation. 1-20 (min).
Safe Margin	[ON] Honors the minimum distance between a dangerous/non-navigable area and the vessel.
Respect Draft	[ON] Disregards the depths shallower than the Safe Depth setting. [OFF] Respects the Safe Depth setting.

Calculate Easy Route

1. Place cursor on start point and press **ENT**.
2. Select **Easy Routing > Start**
3. Move cursor to end point and press **ENT**.
4. Select **Easy Routing > Destination**.
5. Select **ENT > Easy Routing > Calculate**. *Review warnings, check route and click OK to proceed/confirm.*
6. Select **OK** to finish or **Details** to view results.
7. **ENT** to save route (route must be saved before changes can be made). **ESC/MENU** to exit without saving.

Start and end points stay on screen until deleted (for routes that are not saved and/or completed.)

<u>Route Leg</u>	<u>Description</u>
Red	Condition is unsafe for navigation, crossing dangerous areas or objects.
Yellow	Requires maximum attention. Leg crosses potentially dangerous areas/objects.
Green	No Hazards detected.
Gray	Start/End point moved to safer area.
Red	Condition is unsafe for navigation, crossing dangerous areas or objects.
Green	No Hazards detected.

Managing Value Added Data

Use the following steps to turn value added data ON or Off or customize to display individual objects.

1. Press **ESC/MENU** [*long push*] and go to **MAP**.
2. Select **VAD** and choose between the following for each VAD category:
 - **DISPLAY** – select *On/Off* or *Custom*.
 - **CUSTOMIZE** – select *On/Off* for each individual VAD object.

VAD Boundaries

VAD boundaries show areas where Value Added Data is available for unlock. VAD boundaries are shown in **orange** and can be turned ON or OFF using the steps below.



1. Press **ESC/MENU** [*long push*] and go to **MAP**.
2. Under **MAP CONFIGURATION**, change **DISPLAY MODE** to 'custom'.
3. Scroll down to **VAD BOUNDARIES** - turn ON or OFF.

VAD Categories

Value Added Data is divided into 'Standard VAD' and 'Paid VAD' categories. **Standard VADs** are included at no additional cost and require no unlock. **Paid VADs** are visible after a purchased unlock.

Standard VAD

Roads, Lane Elevations, Points of Interest, Tidal Stations, Port/Marina and Multimedia Content.

Paid VAD

High Resolution Bathymetric data and Sport Fishing data that includes; caution areas, fish havens, fishing ground, precautionary areas, wrecks, restricted areas and ORAs (outdoor recreation areas.)

Map Menu

MAP menu lets you change icon size, adjust nav-aid presentation, select chart languages, predict currents and change the chart display.

1. **ESC/MENU** [*long push*].
2. Select **MAP**.



Chart Display

Chart Display allows for setup of chart overlays and transparencies for 2D, 3D, Vector and Satellite.

1. **ESC/MENU** [*long push*].
2. Select **MAP**.
3. Go to **CHART DISPLAY** and choose from:

Plotter Window	Select display location for the 2-way split screen. Default setting displays on the left half.
Display Mode	Select the chart display mode, among 2D, 2D Perspective and 3D
Overlay	Select the type of overlay to use: Vector , Satellite , Raster and Chart Shading (<i>not available in the 3D display.</i>)
Overlay Mode	Select where to display the overlay: On Land , On Sea or On All (<i>available in 2D and 2D perspective modes when [Chart Shading] is selected.</i>)
Transparency	Set the level of transparency for satellite photos on the water. The higher the number the greater the degree of transparency.
3D Exaggeration Factor	To enhance the view of topographical features, set the level of 3D exaggeration from levels 1 – 5. The higher the number the greater the degree of exaggeration.



Jeppesen • 133 Falmouth Road • Mashpee • MA 02649

800.424.2627 • us-customersupport@jeppesen.com