

## GPS/WAAS Chart Plotter with Fish Finder

Model: **GP-1871F**

Model: **GP-1971F**

## New Software Version 4.0

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# 1. Navionics Chart Capability

The GP-1871F/1971F with v4.0 is now compatible with **Navionics+ and Platinum+ charts**. This section highlights unique features of Navionics charts. See the Navionics website for more details about Navionics charts and their features:

<https://www.navionics.com/usa/charts/features/navionics>

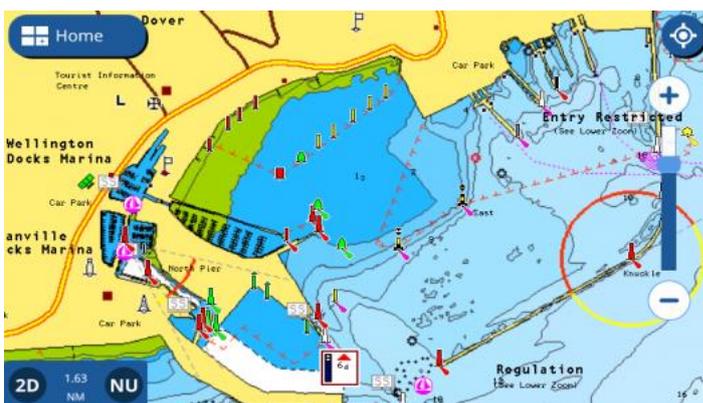


## 1.1. Available Features with Navionics Charts

Category	Functions	Navionics+	Platinum+
Chart Layers	Nautical Chart	✓	✓
	SonarChart™	✓	✓
	Community Edits	✓	✓
Advanced Features	Dock-to-dock Autorouting	✓	✓
	SonarChart™ Live	✓	✓
	Advanced Map Options	✓	✓
	Plotter Sync	✓	✓
Overlays	Satellite Overlay with SonarChart™ Shading	-	✓
	Relief Shading	-	✓
Viewing Options	3D View	-	✓
	Panoramic Photos	-	✓
	Fishing Ranges	✓	✓
	2D Shading	-	✓

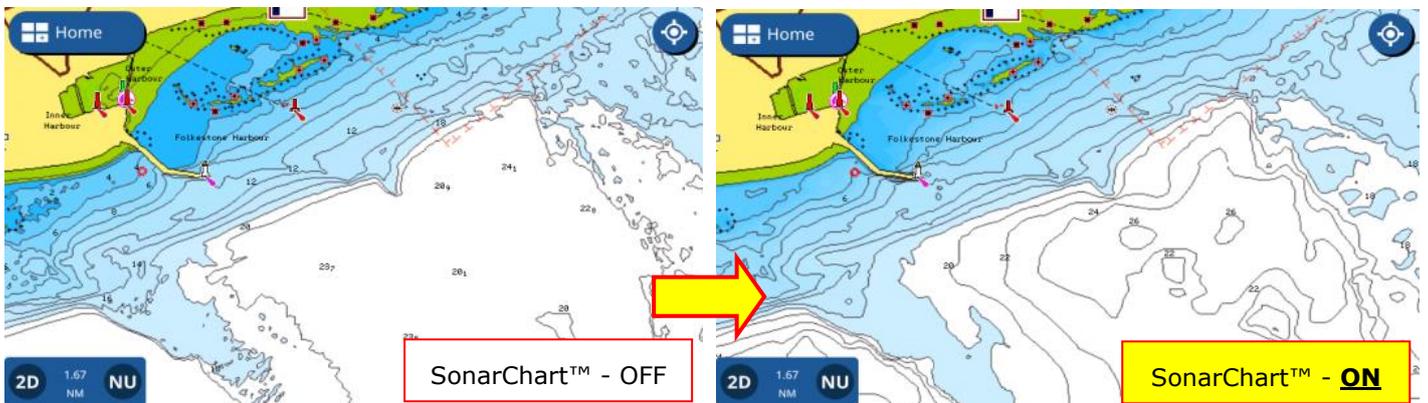
## 1.2. Screen Gallery

### Nautical Chart:



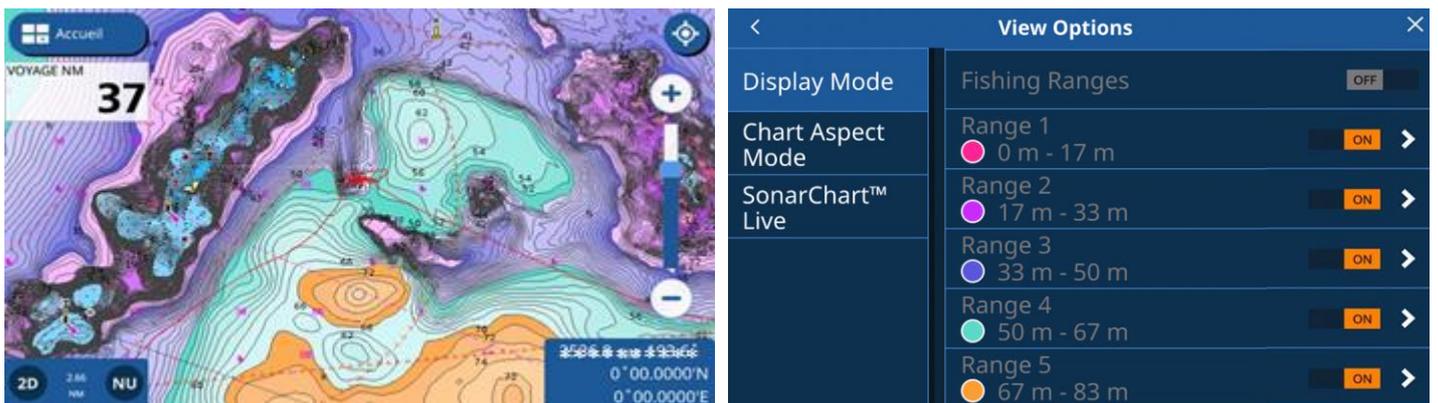
## SonarChart™:

High-definition depth contours as close as 0.5 meter steps, are available with the SonarChart™. The following screenshots compare the navigation chart with the SonarChart™: Detailed depth contours are available. Note that the SonarChart™ mode is **ON by default**.



## Variable Colors assigned to each depth range:

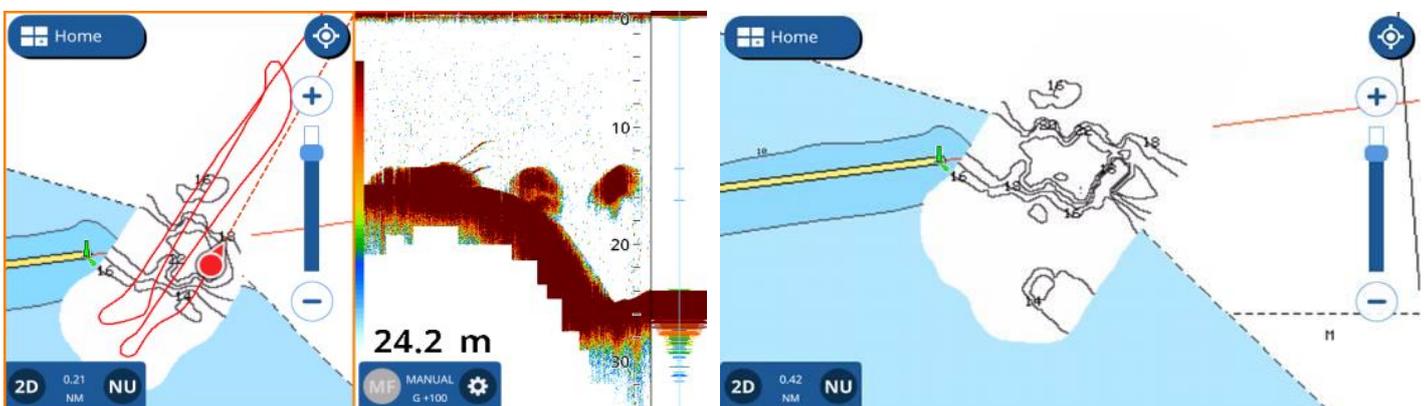
In combination with SonarChart™, it is useful to assign different colors depending on depth ranges. Example, for shallow areas, red may be assigned for caution. For other areas, different colors may be used depending on fishing spots.



Settings: Layer menu in Plotter – [View Options] – [Fishing Ranges on SonarChart™]

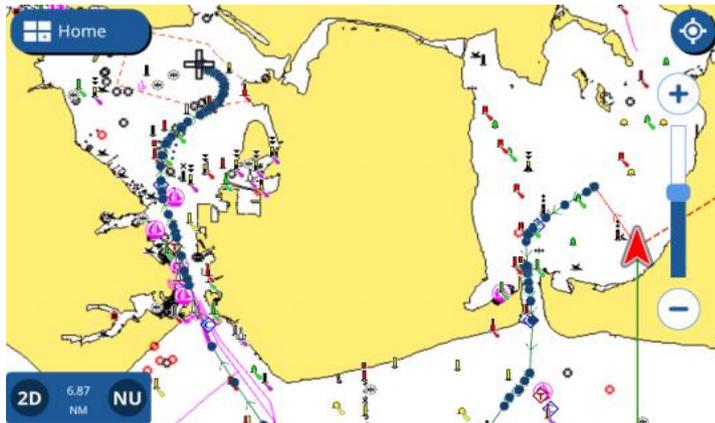
## SonarChart™ Live:

Using the internal Fish Finder, the depth is updated and mapped on the Plotter screen.



### Dock-to-dock Autorouting:

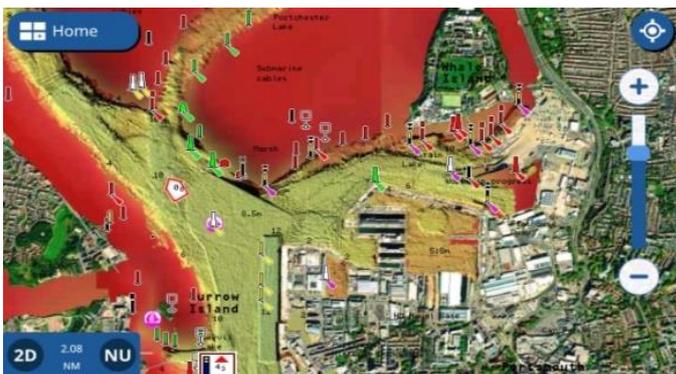
A route can be automatically created between own ship location and the destination. To better manage this function, the capacity of route points is increased from 50 to 250 points as described in [Section 2.3](#).



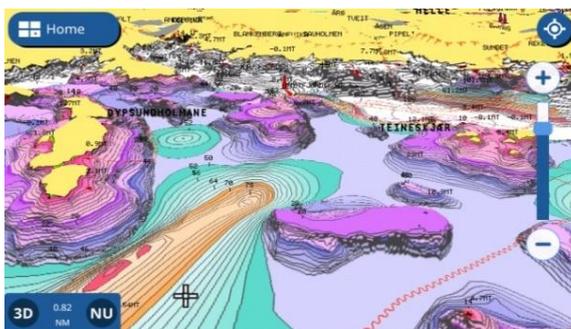
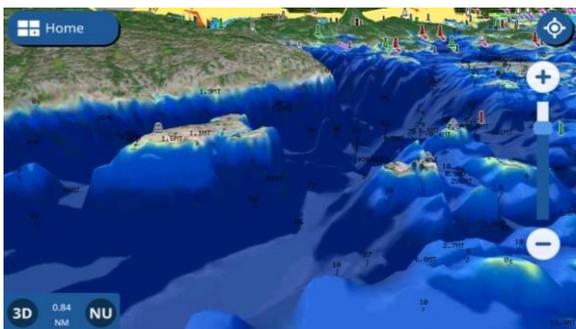
### Satellite Overlay with SonarChart™ Shading:



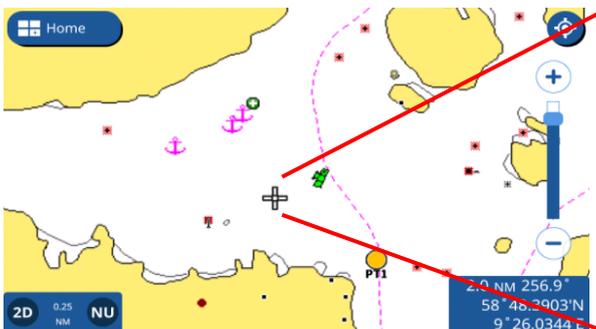
### Relief Shading:



### 3D View:

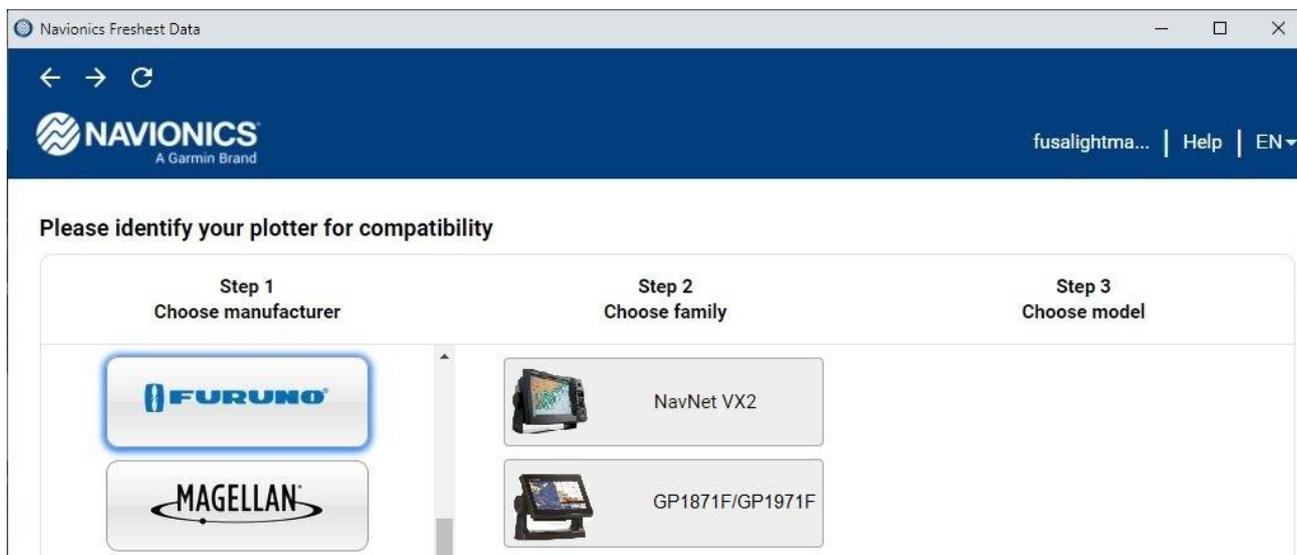


### Panoramic Photos:



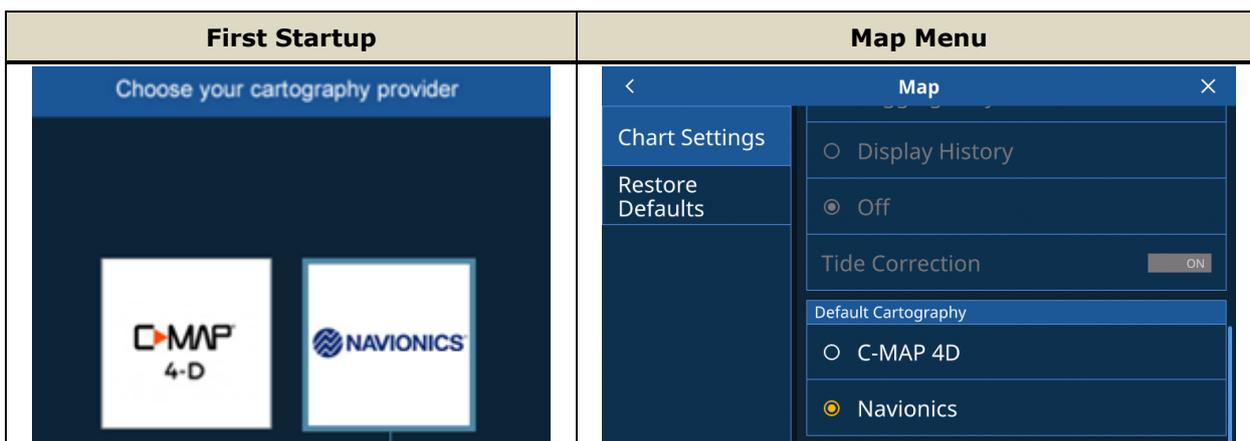
### 1.3. Navionics Chart Installer App

The **Navionics Chart Installer** app can be utilized to update Navionics charts. For details about the app, see the Navionics website and download the app: <https://www.navionics.com/usa/support/chart-installer-tutorial/download>



### 1.4. Plotter Mode – Navionics vs. C-MAP

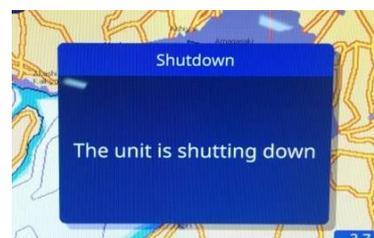
After updating to v4.0 or after performing Factory Default , when the display is turned on for the first time without a chart card inserted, the selection screen will appear to choose one of the cartography providers. Select C-MAP or Navionics. Until the chart mode is changed, the display will start up with the selected chart mode. The chart mode can be changed in [Settings] – [Map] – [Chart Settings] – [**Default Cartography**] – [**C-MAP 4D**] or [**Navionics**].



#### Note on Navionics Mode:

**It takes longer for the display to shut down: The unit will remain on with the [The unit is shutting down] message longer with Navionics (approx. 15 seconds).**

The Navionics mode has more functions and settings to save during the shut-down process, which makes the shut-down period longer than the C-MAP 4D mode.



## 2. New with Plotter

### 2.1. Improved Navigation in Reverse

After you reach the destination, you may reverse the route to come back to the home port. With the GP-1871F/1971F v4.0, **the reversed route can be activated from the selected waypoint or tapped spot on any leg.**

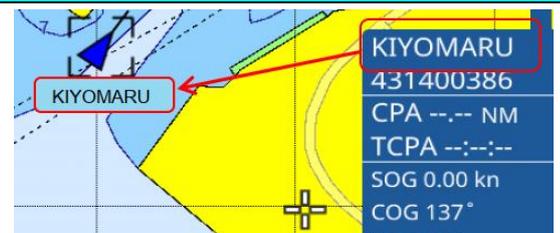
In the example at right, a route is created from the left (1) to the right (4). When the waypoint (3) is tapped to reverse.



New - V4.0	Previous
<p data-bbox="76 1211 783 1240">The reversed route is activated from the selected point (3).</p>	<p data-bbox="805 1211 1426 1240">The reversed route is activated from the point (4).</p>

### 2.2. AIS Name

A vessel name for each AIS target is displayed on the Plotter and Radar screens. While previous versions showed MMSI below an AIS icon, the new v4.0 shows the vessel name, so that you do not need to tap the specific AIS target to check this.



**Note:**

When the vessel name is not available or received, no text will be indicated below the AIS icon.



### 2.3. Increased Route Points

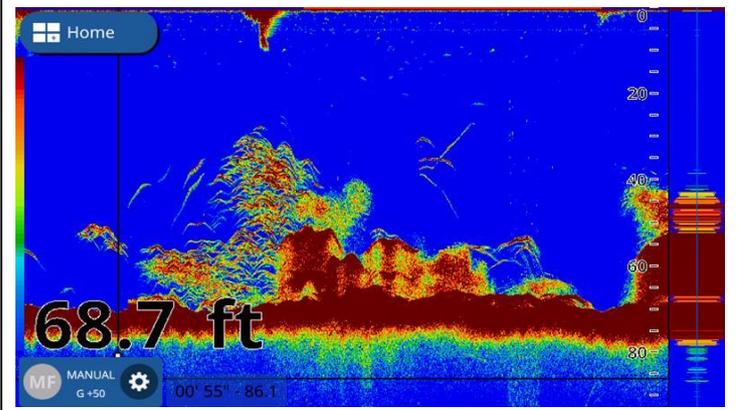
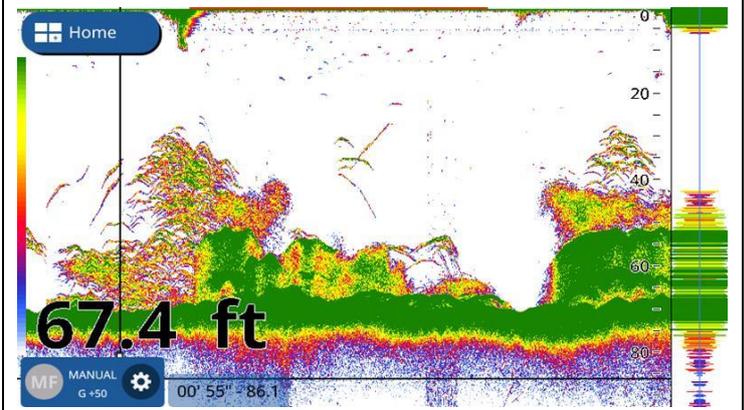
Previously, a maximum of 50 waypoints was entered on one route. With the new v4.0, **a maximum of 250 route points** is available in order to handle Navionics Dock-to-Dock Autorouting and Plotter Sync features.

# 3. New with Fish Finder

## 3.1. Additional Color Options

The new color options of **Blue** and **Sunlight** are available in [Fish Finder] - [Color Schemes].



Blue	Sunlight
 <p>This has been available with commercial Fish Finder such as FCV-1900, as well as NavNet TZtouch3 v2.xx and TZtouch2 v8.01 MFDs. The same color is available with v4.0 for users who prefer the conventional color scheme.</p>	 <p>This color scheme based on green to purple helps ensure good visibility in sunlight.</p>

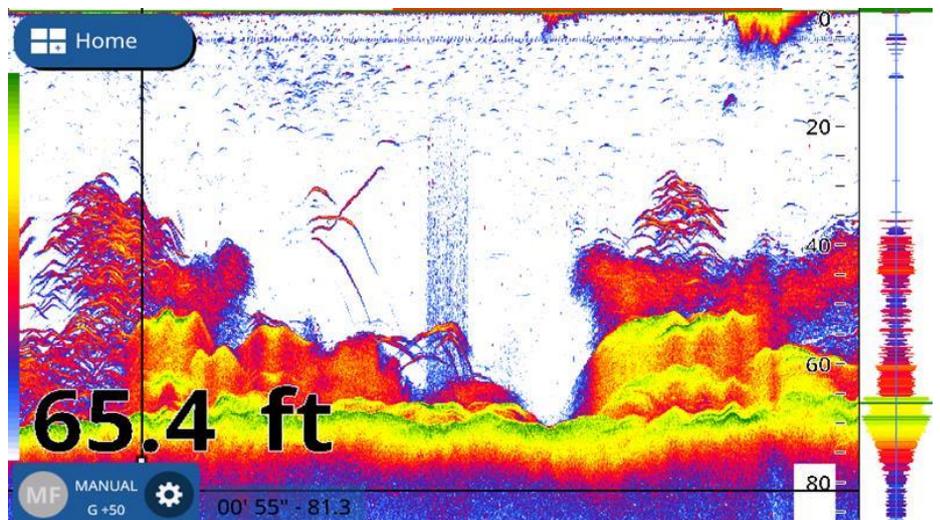
## 3.2. Color Range Expansion

With the conventional color range, strong echoes from the seabed and a big school of fish were shown in a similar color, i.e. brown to dark red. **With the new Color Range Expansion, when the strength of echoes from the seabed and fish are slightly different, they are now displayed in separate colors so that you can easily identify the fish over the seabed.**

**Note:**

This color presentation is available in **Manual Gain** mode only.

*E.g. Color Range Expansion in Sunlight Color Scheme.*



**Settings**

- (1) Menu: [Settings] – [Fish Finder] – [Display]
  - [Color Range Expansion] – [ON]
- (2) Fish Finder screen: [Gain Mode] – [Manual]

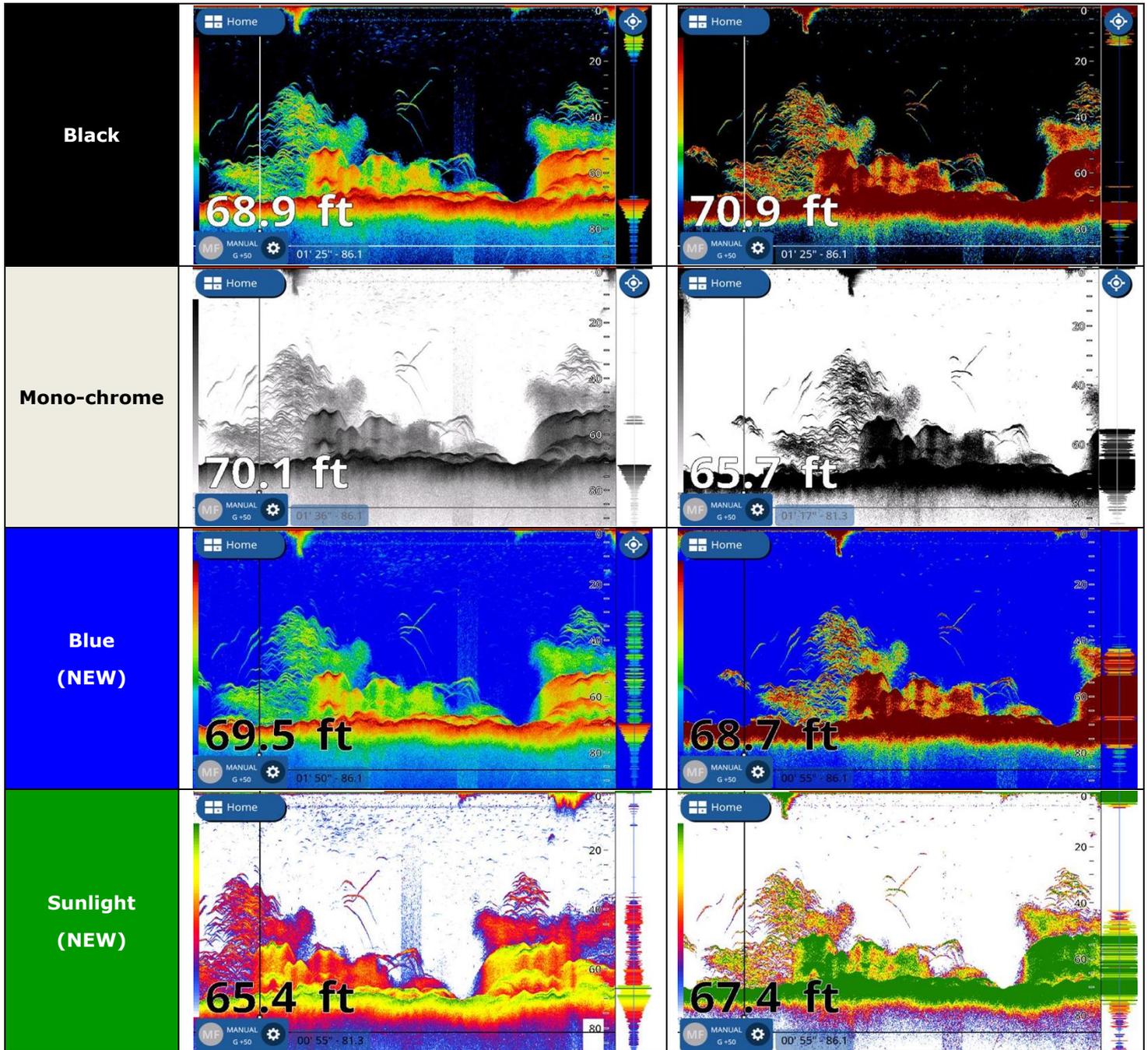


**Comparison – Color Range Expansion ON vs. OFF in Each Color Scheme**

The following table compares the NEW Color Range Expansion mode with the conventional presentation in each color scheme.

**Transducer : TM150M**  
**Depth : 20 to 25 m (65 to 70 ft)**

Color Scheme	Color Range Expansion - ON (NEW)	OFF (Conventional)
<b>White</b>		
<b>Light Blue</b>		
<b>Dark Blue</b>		



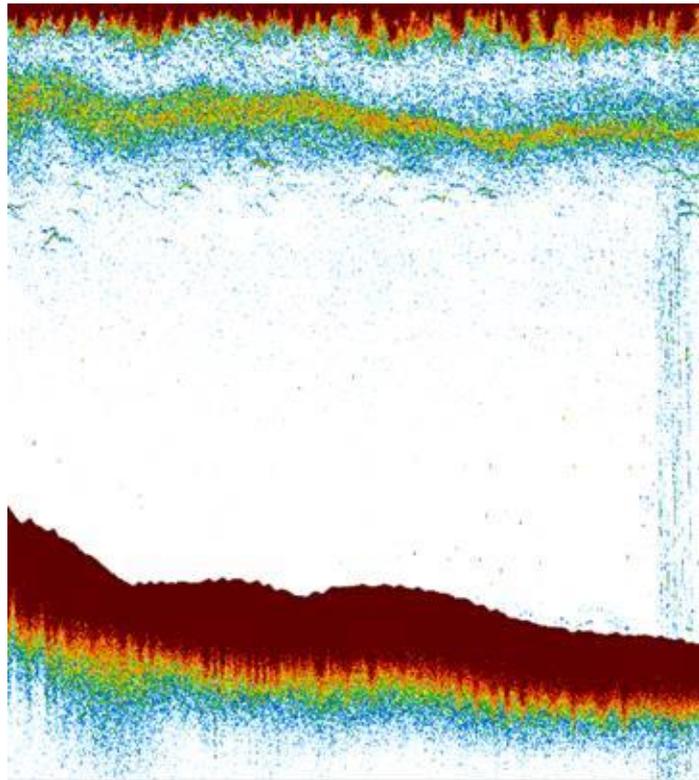
**Note and Tips – Appropriate Occasions of Color Range Expansion**

In deep waters, where echoes are weaker than shallow areas, the Color Range Expansion mode may show hard targets such as seabed and a big school of fish in light colors: Targets at the surface to middle layer, which has weaker echoes, will be shown in lighter colors and may not be intuitively identified as fish targets. In such cases, turn off the Color Range Expansion mode to show in the conventional presentation mode.

The following example shows the echo presentation at deeper water than the comparison shots above.

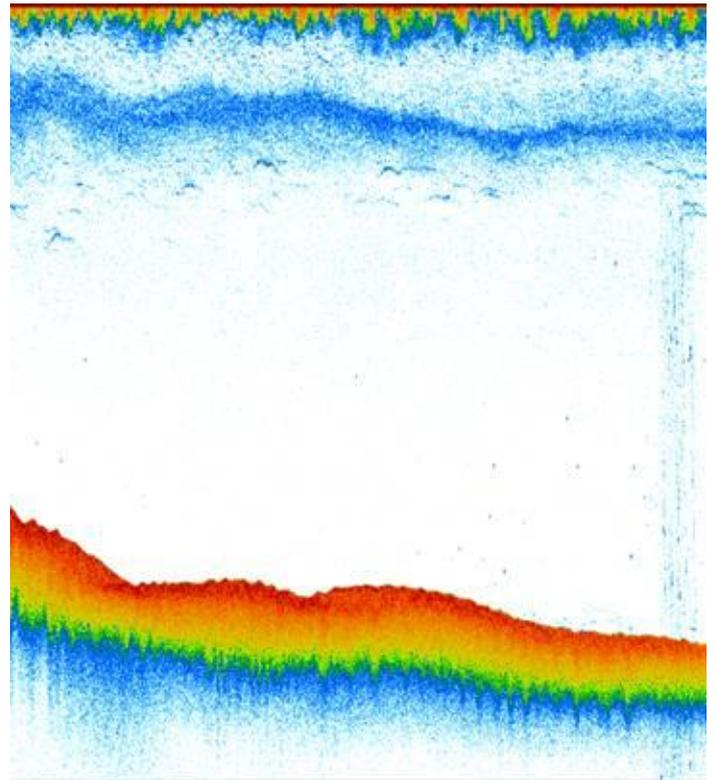
**Transducer : TM165HW**  
**Depth : 100 m**

**Color Range Expansion – OFF (Conventional)**



While the seabed is presented in dark brown colors, targets at the surface layer are shown in red/yellow/orange colors, so that you may identify a school of bait fish.

**Color Range Expansion – ON (NEW)**



The seabed is shown in light color. The echo at the surface layer is in light blue, which looks like noise rather than a bait ball.

**3.3. Additional TruEcho CHIRP™ Transducer**

The GP-1871F/1971F v4.0 is now compatible with Airmar transducer, [TM165HW](#) for TruEcho CHIRP™ transmission.

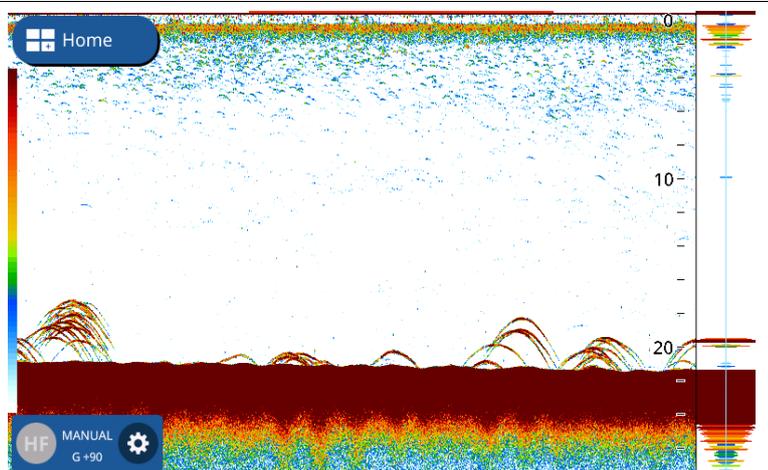
**Image**

**TM165HW Wide-beam Chirp-ready Transom Mount**

- Category:** Chirp-ready
- Power:** 600W
- Function:** Depth, Temperature
- Frequency:** 150-250 kHz
- Mount Style:** Transom
- Housing Material:** Plastic Bracket



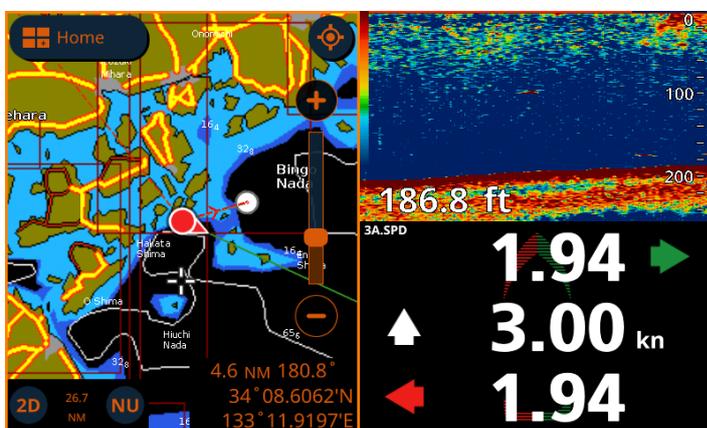
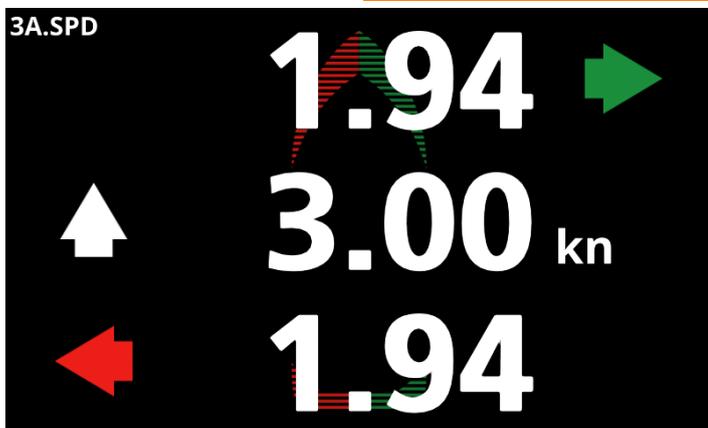
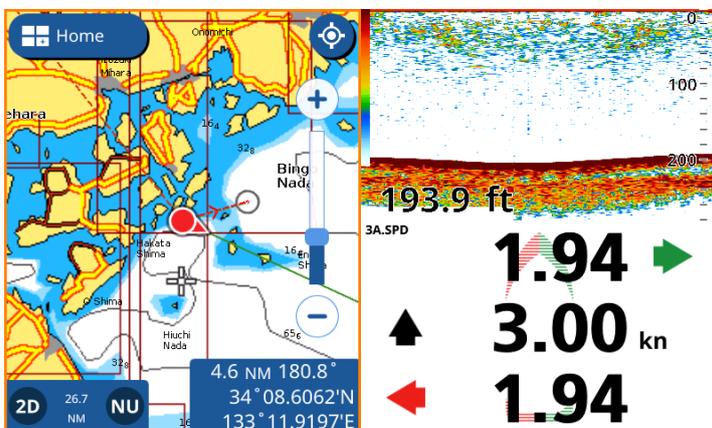
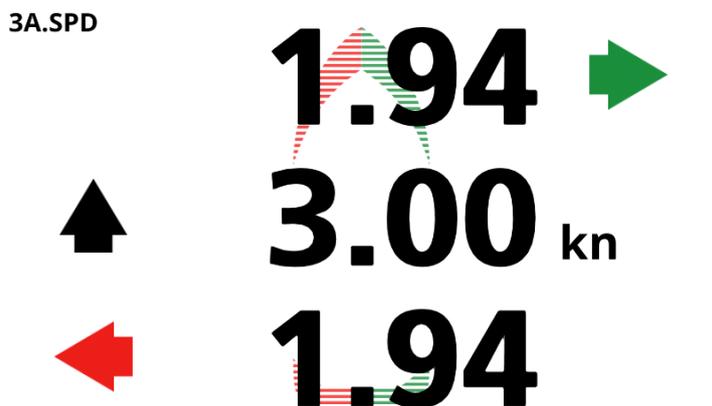
**Screenshot**



# 4. New Instrument Displays

## 4.1. 3-Axis Speed Display

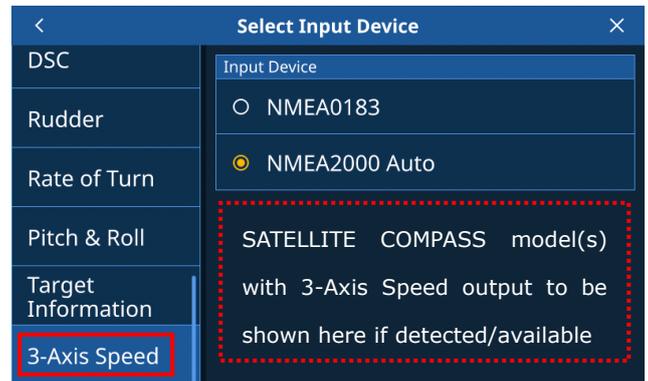
A vessel has three (3) types of speed: **forward-aft**, **transverse (port-starboard) at bow**, and **transverse (port-starboard) at stern**. These speed components are called **3-axis speed**. With the **NMEA2000 PGN: 130578 (Vessel Speed Components)** or **NMEA0183 VBW** sentences from a SATELLITE COMPASS input to the GP-1871F/1971F v4.0, **3-axis speed can be shown in graphical and digital indications in the Full or Quarter screen modes**. Digital values are shown in **2 digits after the decimal point**. This **precise indication** will help monitor the detailed motion of the boat, berth at a harbor, and to see how the boat is drifted or sailed.



*E.g. 3-Axis Speed in Full (left) and Quarter (right) screens with Day (top) and Night modes (bottom)*

### Tips on Data Source Setting:

When FURUNO SATELLITE COMPASS models with 3-axis speed data output are detected, each model name will be listed in [Settings] – [Interface] – [Select Input Device] – [3-Axis Speed]. When they are not available or detected in the network, only [NMEA2000 Auto] and [NMEA0183] are indicated as shown at right.



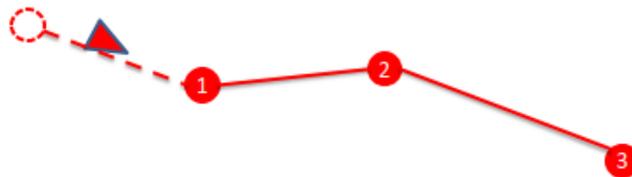
## 4.2. SCX-20 and SC-33 Setup Menu

In addition to the SC-30, settings of **SCX-20** and **SC-33** for **SBAS – ON/OFF**, **Heading Offset**, **Pitch Offset**, and **Roll Offset** are now available.



## 5. Others

(1) **Plotter:** Three (3) waypoints are output via PGN: 129285 for an active route. (Previously, only two (2) waypoints were output.)



(2) **Plotter:** The C-Weather menu is removed because the service was terminated by CMAP on June 30, 2021.

(3) **Plotter:** The World Magnetic Model is updated to WMM2020.

(4) **Plotter:** When creating a route by utilizing user points, contextual menus will appear after tapping on each user point.

(5) **Plotter:** Grounding alarm issue with Japanese chart is fixed.

(6) **Fish Finder:** Interference Rejection settings are properly backed up.

(7) **Fish Finder:** ACCU-FISH Filter is improved. Previously, fish icons were not shown depending on setting combinations.

(8) **Data Box:** Fuel Economy and Fuel Consumption boxes will show [\*\*\*] when the received data is out of range. Previously, the boxes were blank.

(9) **Radar:** The Guard Zone (GZ) operation by touch is improved. Previously, you needed to touch exactly on the GZ to adjust the GZ size. Now, the detection area is expanded for easier access to GZ adjustment.

(10) **Radar:** The [Radar Connection Lost] warning will not appear when the Wireless LAN connection with the DRS4W is intentionally disconnected. E.g., after you use the DRS4W to go to a fishing spot, you disconnect the DRS4W to connect a smart phone for the Mirroring app. Previously, the disconnection alert was shown and not hidden unless the power was cycled. Now, the alert will not appear in such cases.

(11) **General:** The notification bar in blue for some system messages is automatically hidden after 5 seconds.

- ✚ Navigation Mode
- ✚ NAVpilot STBY / Auto / Nav / No Drifting Mode / Auto SABIKI Mode
- ✚ No Chart Detected
- ✚ SD Card Full
- ✚ Simulation Mode Active

## 6. Software Update Options

The GP-1871F/1971F can be updated to v4.01 via microSD card or Wireless LAN, similar to the previous v3.0.

### 6.1. Update via microSD Card

The software package of version 4.0 will be posted to the product page of [Furuno USA](#).

### 6.2. Update via Wireless LAN

**Update to v4.0 will be available via Wi-Fi from March 2022.**

### 6.3. Note

Compared to v3.0, software v4.0 takes longer to update due to the content of Navionics chart capability, as well as the installation of Navionics base charts.

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