

## CSH10 Omni Sonar Software Version 1.04 Overview

Software version 1.04 for the CSH10 has been released, and new units shipped from Furuno USA will be delivered with this new software beginning February 2026. Version 1.04 offers several improvements and refinements, including the exciting and simplified "Game Fish Mode," which are described in detail below.

### 1. Software Version Number Details:

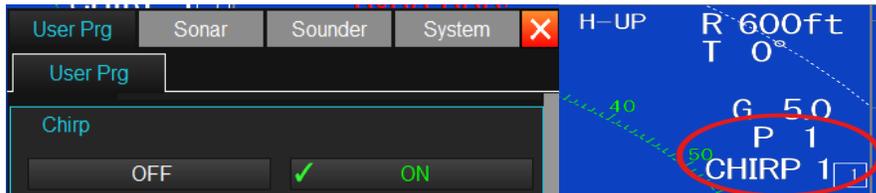
Component	Software version
<b>Processor CSH1003 APL</b>	<b>1051022-01.04</b>
<b>Transceiver CSH101 TRCPU</b>	<b>1050965-01.03</b>
<b>Program settings</b>	<b>CSH10_FUSA Base setting V1.04 2026_01</b>

*Note: Software settings and Program Settings or "P-Settings" are separate items. Software enables features; P-Settings determine how those features are applied. Please read update instructions in full, to understand how EXISTING customer P settings maybe impacted and how to handle them.*

### 2. Significant Changes and Enhancements:

**i. CHIRP Transmission has been added.**

"CHIRP transmission" allows the CSH10 to CHIRP across its entire frequency range of 83.5 kHz to 85.5 kHz, which makes large individual fish marks like marlin more stable on the Sonar presentation. We have created (4) P-Settings that include this feature: P1-P4



**ii. Propeller Noise Suppression algorithm has been added.**

"Prop Noise Suppression" will reduce prop noise, particularly at the rear of the vessel, by suppressing strong noise echoes generated by propellers. We have created (2) P-Settings that include this feature: P3-P4



**iii. New functionality with "Interference Rejector 1" has been added.**

IR1 offers three choices. "Strong" and "Middle" are the conventional settings. "Weak" is newly added and is the recommended setting for stable marlin detection. We have created (6) P-Settings that include this feature: P1-P6

### More Questions?

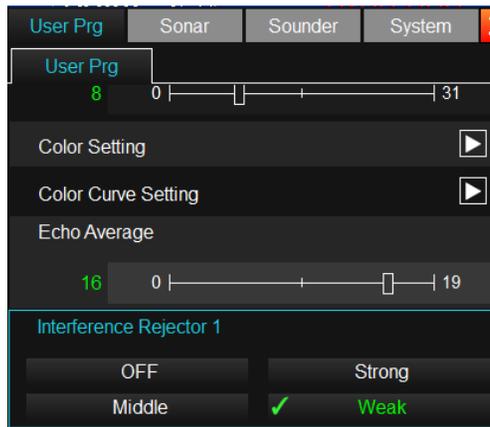
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REV	DATE	AUTHOR	CHANGE	OK
1.0	2026-02-18	GD	NEW	CL
1.1	2026-03-02	GD	Changed Information	CL



**iv. New options in “Echo Average” have been added.**

Seven new Echo Average (EAV) options have been added, increasing the total from 12 to 19. Settings 1 to 11 are existing options, and settings 12 to 19 are newly added. We have created (5) P-Settings that include this feature: P1-P3, P5-P6

Classification of Echo Average	Rising responsiveness	Falling afterglow effect
Echo Average A: 1	Medium	Low (Low)
Echo Average A: 2		Low (Medium)
Echo Average A: 3		Low (High)
Echo Average B: 4, 5	Slow (Medium)	High
Echo Average B: 6	Slow (Slow)	High
Echo Average B: 7	Slow (Fast)	High
Echo Average C: 8	Fast	Low
Echo Average C: 9		Medium (Low)
Echo Average C: 10		Medium (High)
Echo Average C: 11		High

Classification of Echo Average	Rising responsiveness	Whether add offset to the signal	Falling afterglow effect
Echo Average D: 12	Medium	No	Low (Low)
Echo Average D: 13		YES	Medium (Low)
Echo Average D: 14		YES	Medium (High)
Echo Average D: 15		YES	High
Echo Average E: 16	Fast	YES	Low (Low)
Echo Average E: 17		YES	Medium (Low)
Echo Average E: 18		YES	Medium (High)
Echo Average E: 19		YES	High

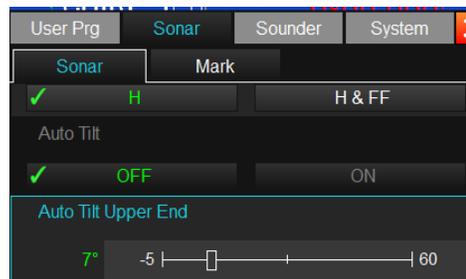
**v. “Game Fish Mode” has been added:**

You can change the Sonar settings to an optimized gamefish setting by single-clicking “Game Fish Mode.” It changes many internal settings, including certain threshold features that aren’t normally accessible. To utilize the feature, this button only needs to be pushed 1 time after the v1.04 update. You will not be required to re-register the P-Settings if you use a P-Setting that already has CHIRP transmission enabled.



**vi. A method for quickly disabling “Auto Tilt Function” has been added:**

You can turn “Auto Tilt Function” off by placing an event mark, placing a fish mark, or manually operating the tilt angle. This allows fast switching to manual tilt operation when you find a target while “Auto Tilt Function” is enabled.



### **3. P-Setting Overview**

The following P-Settings have changed and are shown below:

<b>P number</b>	<b>Name</b>	<b>Description</b>
<b>P1</b>	<b>CHIRP 1</b>	This setting uses CHIRP with echo average - <i>short</i> afterglow period.
<b>P2</b>	<b>CHIRP 2</b>	This setting uses CHIRP with echo average - <i>long</i> afterglow period.
<b>P3</b>	<b>CHIRP 3</b>	This setting uses CHIRP and <i>strong</i> noise reduction functions, including own vessel prop noise reduction.
<b>P4</b>	<b>CHIRP 4</b>	This setting uses CHIRP and <i>weak</i> noise reduction functions, including own vessel prop noise reduction.
<b>P5</b>	<b>NOCHIRP1</b>	This setting is optimized for sailfish detection in the US Mid-Atlantic Region without CHIRP transmission. (less interference)
<b>P6</b>	<b>NOCHIRP2</b>	This setting is optimized for sailfish detection in the US Mid-Atlantic Region without CHIRP transmission. (long afterglow)
<b>P7</b>	<b>BASE9</b>	Optimized base settings for using shallow tilt angles. (Near gain setting may need to be increased as needed)
<b>P8</b>	<b>HAWAII</b>	This setting is optimized for Blue Marlin detection in deep water like Hawaii
<b>P9</b>	<b>SHALLOW</b>	This setting is optimized for commercial bottom fish (whiting, pollock and similar school fish) in <i>shallow</i> water
<b>P10</b>	<b>PNW DEEP</b>	This setting is optimized for commercial bottom fish (whiting, pollock and similar school fish) in <i>deep</i> water

### **4.Support & Resources**

- Note: If the software of the Processor unit is shown as **1050122-01.01**, this software cannot be applied to your Sonar. Please contact FURUNO USA with phone: (360) 834-9300 or Email: [fusa.deepsea@furuno.com](mailto:fusa.deepsea@furuno.com)
- **Authorized Furuno Dealers** may download software, P-Settings, and instructions from our web resources using a dealer **login**: <https://furunousa.com/en/support/CSH10>
- **End-users** should contact their local dealer for updates and questions. More "instructional" materials may be found also on the CSH10 support page. **No log in is required.**