Connecting Viva controller to SonarMite Echosounder

CS10/CS15 Settings

Connecting Viva controller to SonarLite

CS10/CS15 Settings - Introduction

The new Leica Geosystems Viva CS10 and CS15 controllers can be connected to an Echo Sounder by Bluetooth or by serial cable. The Ohmex ‘SonarLite’ legacy echo-sounder has a serial cable connection only; the SonarMite has both Bluetooth and serial options.

This slideshow covers the use of serial cable connection to the SonarLite and SonarMite (the process is the same), and also the minimal extra steps to use the SonarMite with Bluetooth.

For CS10 and CS15 dataloggers, the correct Leica cable to use is the GEV 162, connected to the Ohmex serial cable with Green connector.
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1. Switch on, choose GPS, and go to main screen.


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3. Choose option 2, ‘Instrument connections’ (or ‘Connect to Instrument’ if using icons)
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4. Choose option 2, ‘All other connections’

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6. Tick ‘Receive ASCII data..’
7. At ‘Connect using’,
   Choose ‘CS RS232 Port’.
(7a. To use the SonarMite
via Bluetooth, select an unused
‘CS Bluetooth’ port)

9. Press F6 to page to ‘Others’
   and highlight ‘RS232’.

Not available in Smartworx v5.70
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11. Create new ‘Name’, eg ‘SonarLite’

12. Choose ‘Baud rate’ as 9600 or 4800

13. Press F1 ‘Store’.

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The new device will appear.

14. Press F1 ‘OK’.
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15. For ‘End of message’ choose ‘CR/LF’ (do not press OK yet)

(15.a If using Bluetooth, press F4 ‘Search’, identify the SonarMite, and press F1 ‘OK’ to accept the device)

16. Press F6 and page to the tab ‘Annotation 1’.

17. Tick the box ‘Store ASCII data..’
Tips on Data Collection:

Surveys must be performed using the following setting:

- AUTO tab (stores shots at intervals)
- AUTO POINTS (log every 1 or 5 seconds)