

StereoProbe™ Calibration

Operating Manual



Preface

This manual is a supplement to the VideoProbe® XL PRO™ operating manual. It will guide you through the steps on performing StereoProbe™ Calibration in the field.

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What You Have Received

- Calibration Block in Protective Case

Required Components

To calibrate your StereoProbe tip optics to the XL PRO/XL PRO Plus VideoProbe measurement system, you will need the following required components:

- VideoProbe XL PRO 3.9 mm, 5.0 mm, 6.1 mm, 6.2 mm and 7.3 mm system (SYS)
- Installed SBC Revision 3.4 (or higher) Software
- Forward-or side-viewing StereoProbe tip optic
- Calibration Target (3.9 mm, 5.0 mm, 6.1 mm, 6.2 mm or 7.3 mm)

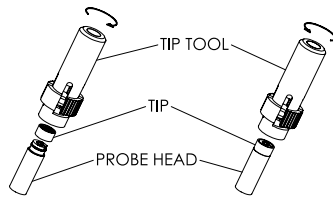
Attaching & Removing Stereo Tip Optics

3.9 mm Stereo Tip Optic Attachment

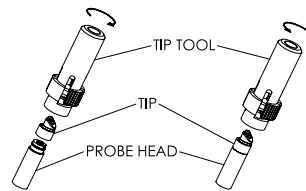
Grasp head of the probe and push on tip tool assembly. Squeeze knurled tip tool tabs and rotate clockwise until tip tool slips. Pull up and off head of probe. Pull on tip gently to ensure tip is securely attached.

3.9 mm Stereo Tip Optic Removal

Grasp head of the probe and push on tip tool. Squeeze knurled tip tool tabs and rotate counterclockwise until tip is free of probe. Pull tip tool assembly up and off head of probe.



Forward View Tip Optic



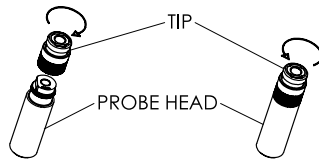
Side View Tip Optic

5.0, 6.2 and 7.3 mm Stereo Tip Optic Attachment

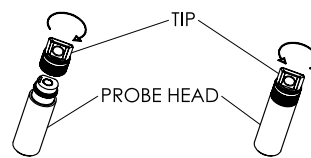
Grasp head of probe and rotate the tip clockwise until it engages the first set of threads. Take care not to cross the threads. Continue to rotate the tip, pushing down gently until the second set of threads is engaged. Tighten the tip finger tight, NEVER USE A TOOL TO TIGHTEN THE TIPS. Pull on the tip gently to ensure it is securely attached.

5.0, 6.2 and 7.3 mm Stereo Tip Optic Removal

Grasp head of probe and rotate the tip counterclockwise until it is free of the first set of threads. Gently pull the tip forward (away from the probe) and rotate it counterclockwise again until it is free of the probe. Take care not to cross the threads when attaching and removing these tips.



Forward View Tip Optic



Side View Tip Optic

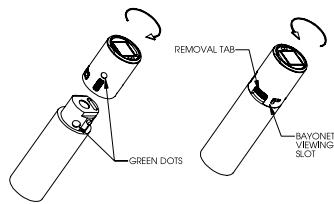
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6.1 mm Stereo Tip Optic Attachment

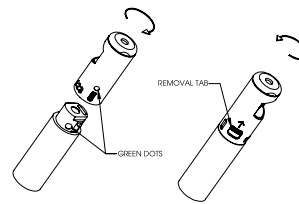
Line up green dots of tip and head. Push tip onto head and rotate tip clockwise approximately 20 degrees. You should feel the tip snap on crisply.

6.1 mm Stereo Tip Optic Removal

Lift up on the removal tab while rotating the tip counterclockwise. (The removal tab is the exposed part of the black inner piece approximately opposite of the green dot). The tip should come off easily. Do not force it.



Forward View Tip Optic



Side View Tip Optic

Calibration Procedure

- 1. Power up the VideoProbe system. Wait 30 seconds for the software to fully boot.
- 2. Press the **MENU** button on the VideoProbe hand-piece (*Fig. 3*).



Figure 3

- 3. Select **SETUP MENU** from the onscreen menu (*Fig. 4*).
- 4. From the drop-down menu, select **MEASURE ▶ STEREO ▶ CALIBRATE** (*Fig. 5*).

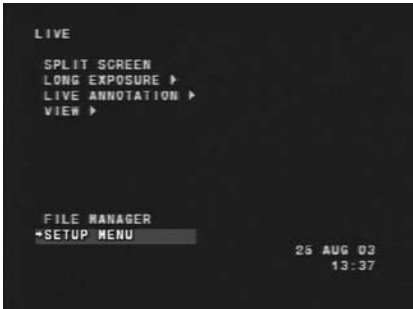


Figure 4



Figure 5

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5. Use up/down on the joystick to select the date (**Fig. 6**).
6. Select the probe diameter and the tip type to be added (**Fig. 7**).

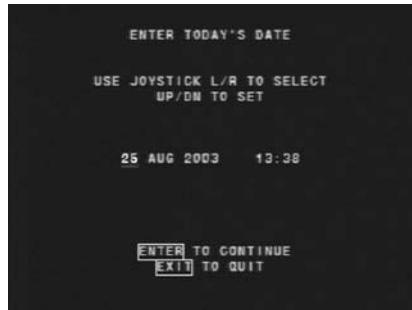


Figure 6

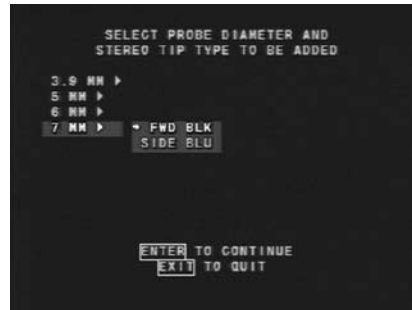


Figure 7

7. Use up/down on the joystick to enter the tip optic serial number (**Fig. 8**).
8. Use up/down on the joystick to enter your initials (**Fig. 9**).



Figure 8



Figure 9

9. Verify the tip information shown onscreen and press **ENTER** (*Fig. 10*).
10. Ensure that the optics of both the probe and the tip optic are clean. Then attach the tip optic (*Fig. 11*). (See page 4 for instructions on attaching the tip optics).



Figure 10



Figure 11

11. Insert the probe tip into the CV2x00 fixture. Use the hole at the top of the verification block for forward-viewing tips. Use the hole on the side of the verification block for side-viewing tips (*Fig. 12*).

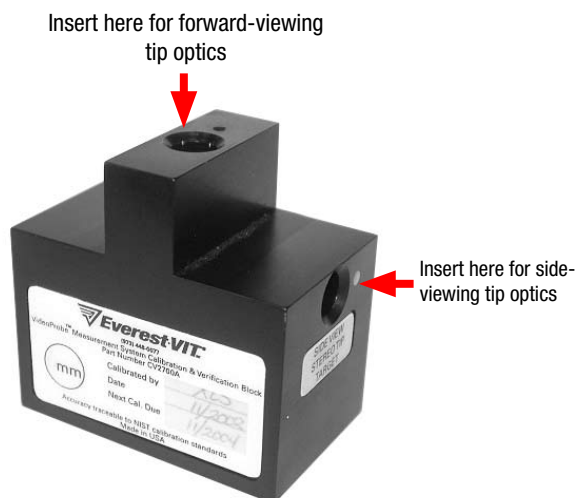


Figure 12

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12. Rotate the probe tip to achieve alignment shown below. When the alignment has been achieved, press **ENTER** to continue (*Fig. 13*).
13. Wait for the calibration to take place. This can take up to 60 seconds (*Fig. 14*).

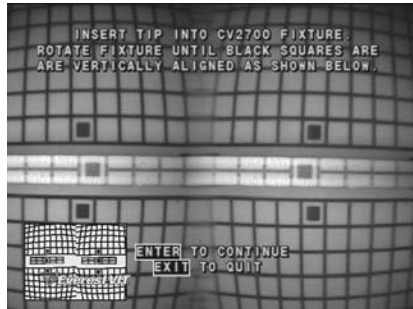


Figure 13



Figure 14

14. The VideoProbe LCD screen will then alert you to verify the calibration. Remove and re-attach the tip before performing the verification. Press **ENTER** (*Fig. 15*).
15. Rotate the probe tip to achieve alignment shown below. When the alignment has been achieved, press **ENTER** to continue (*Fig. 16*).



Figure 15

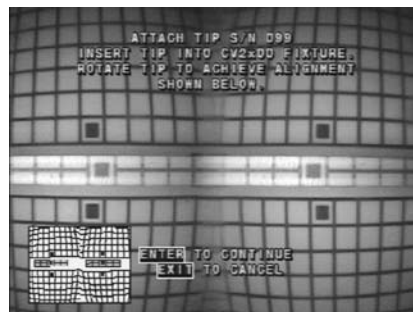


Figure 16

16. Wait for the system to perform verification. This could take up to 60 seconds (**Fig. 17**).

17. Calibration is completed if verification is successful (**Fig. 18**). The system will then reinitialize.



Figure 17

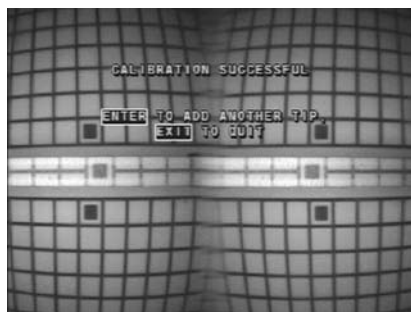


Figure 18

18. If verification was not successful...

- Clean the tip and/or camera head and try again.
- If still unsuccessful after trying the above suggestion, contact GE Inspection Technologies Technical Support for further assistance (contact information listed on back cover of manual).

Tip Deletion

- If the VideoProbe has exceeded the maximum storage capacity, a tip will need to be deleted.
1. If memory space is low, a warning will appear prior to loading the tip (**Fig. 19**). Press **ENTER** to continue with calibration or **EXIT** to quit.
 2. When you have exceeded the maximum tip storage capacity, a warning will be displayed onscreen (**Fig. 20**).



Figure 19



Figure 20

3. Use up/down on the joystick to highlight the tip you would like to delete. Press **ENTER** to select the tip for deletion (**Fig. 21**).
4. Confirm that the proper tip has been selected for deletion (**Fig. 22**).
5. The calibration data will now continue.

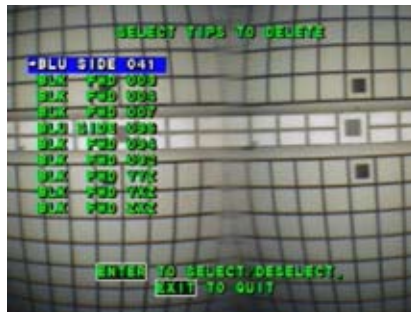
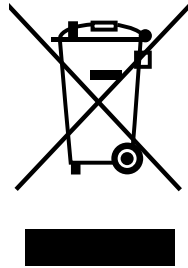


Figure 21



Figure 22

Environmental Compliance



The equipment that you bought has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment.

In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems. Those systems will reuse or recycle most of the materials of your end life equipment in a sound way.

The crossed-out wheeled bin symbol invites you to use those systems.

If you need more information on the collection, reuse and recycling systems, please contact your local or regional waste administration.

Visit www.ge.com/inspectiontechnologies for take-back instructions and more information about this initiative.

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