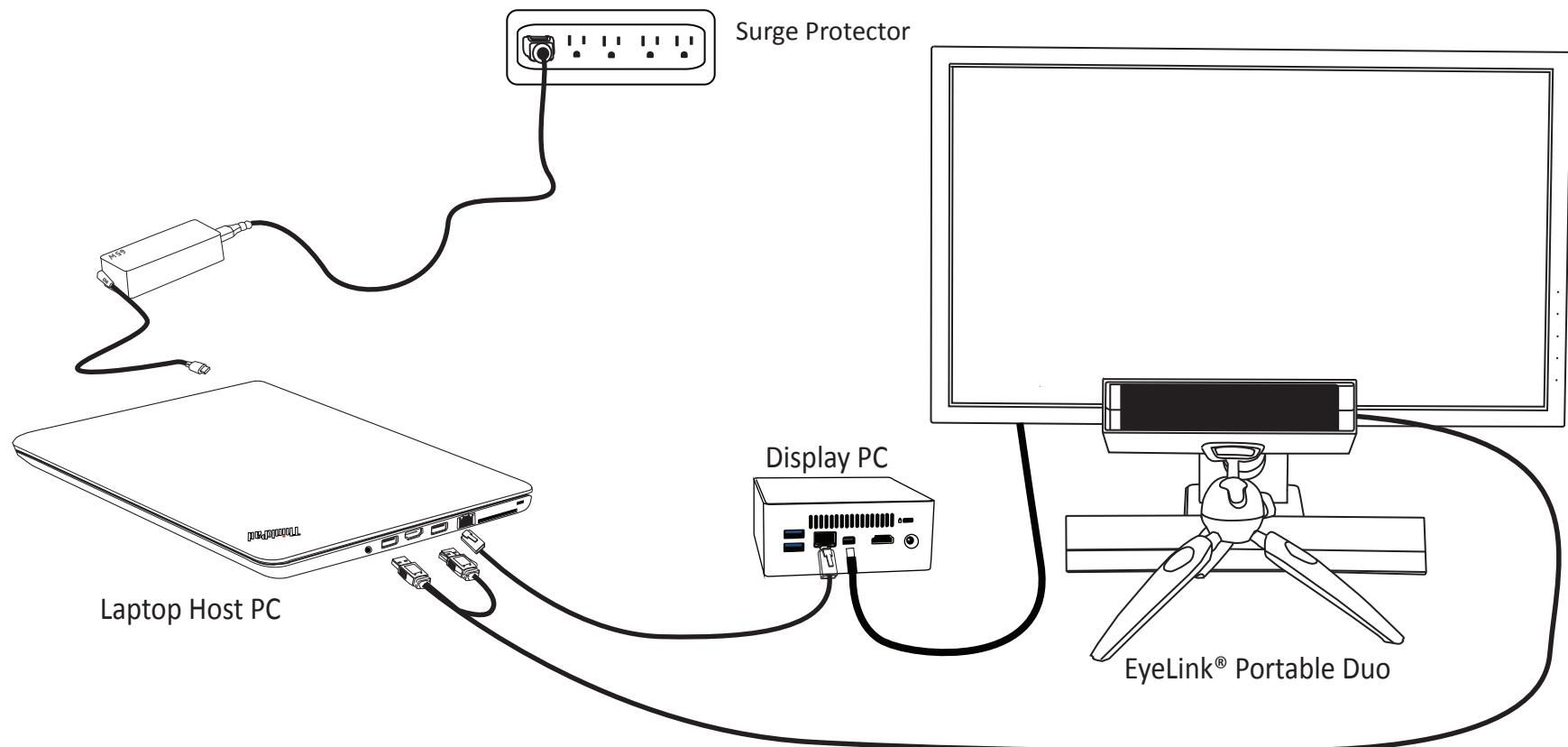


1 Basic PC Setup

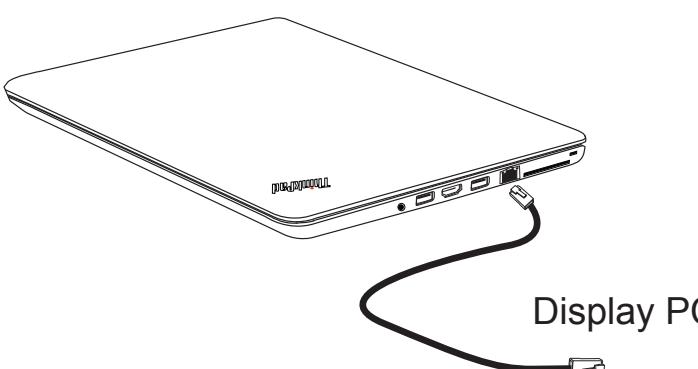
With the Laptop Host PC (included) powered off, connect its power supply. Set up the basic components of the Display PC as you would any other computer. The Display PC can be any modern Windows (7 or 10), macOS (Intel Mac 10.6.8 or later), or Linux PC with an Ethernet port, and may have been optionally acquired from SR Research.



4 Host PC to Display PC Connection

Using the Ethernet cable supplied, connect the Host PC Ethernet port to an Ethernet port on your Display PC. Configure that Display PC Ethernet port with the following static IP address:

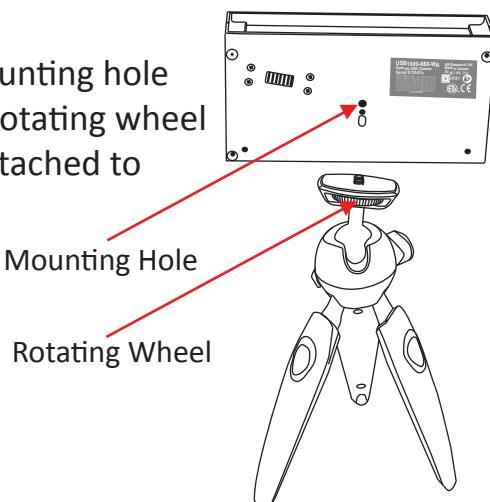
IP Address: 100.1.1.2 Subnet Mask: 255.255.255.0
Leave the default gateway and other settings blank.



See Chapter 6 of the EyeLink Portable Duo Installation Guide for detailed instructions

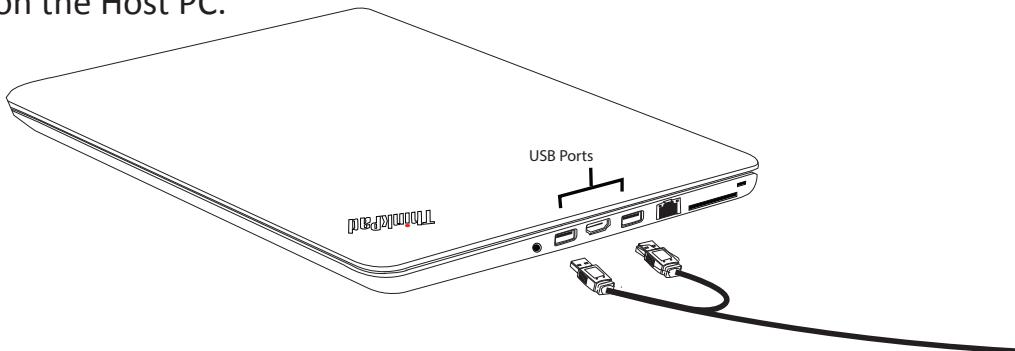
2 Attach the Tripod to the Camera

Align the tripod screw with the 1/4" mounting hole on the bottom of the camera. Turn the rotating wheel on the tripod until the tripod is firmly attached to the camera.



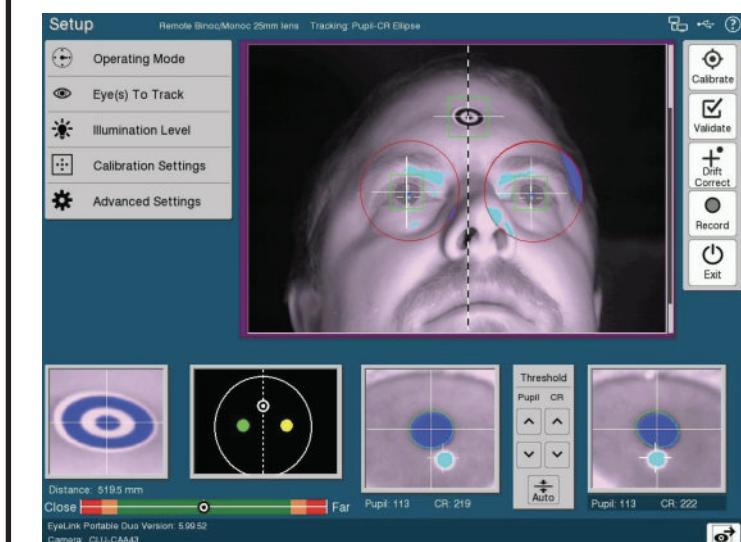
3 Camera Connection

Connect both plugs at the end of the eye tracker's cable into the USB 3.0 ports on the Host PC.



5 Test that the Setup is Working

Turn on the Host PC to verify that the Host Application starts. Once the Host PC is up and running you should see the Camera Setup screen.



To exit to the File Manager from the Host Application, press Ctrl-Alt-Q (or click the "Exit" button on the Setup screen and then select "Exit"). The File Manager interface is illustrated below. You can use the buttons highlighted below to start the Host PC Application or shut down the Host PC.

Starts Host Application

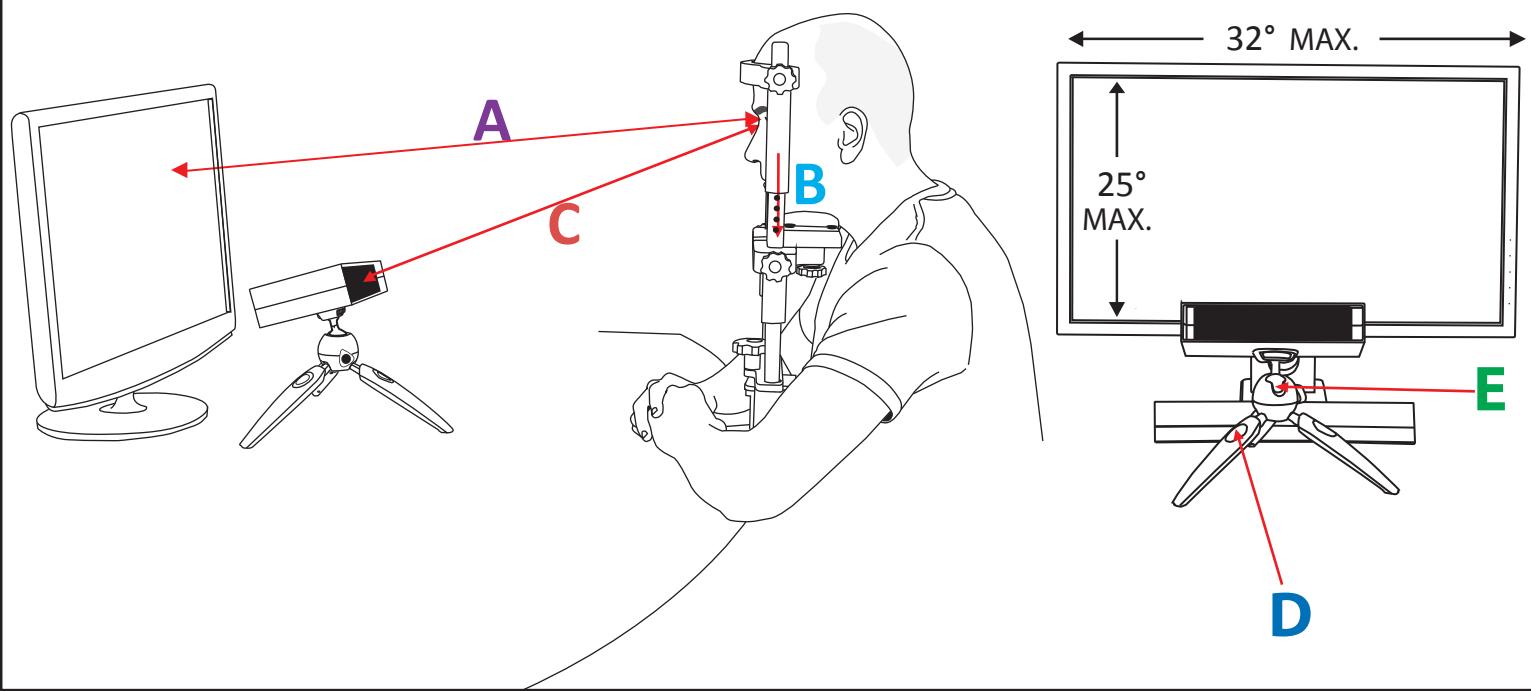


Shuts down Host PC



**Continued
on back**

6 Tracker and Participant Positioning



Step A) Position the monitor so that it subtends no more than 32 degrees of visual angle horizontally and 25 degrees of visual angle vertically for the participant. The eye-to-monitor distance should be at least 1.75 times the display width to ensure that it falls within the trackable range.

Step B) Position the participant so that the eyes align with the top quarter of the monitor – adjust the chair and/or head support to ensure this alignment.

Step C) Position the eye tracker so that the distance from the front of the camera to the participant's eyes is about 45 cm. If using Remote Mode, make sure that the reported target distance on the Host PC is around 52 cm.

Step D) Adjust the height of the tripod so that the camera is as high as possible without blocking the participant's view of the display.

Step E) Position the eye tracker so that it is centered horizontally on the front of the monitor.

See Chapter 3 of the EyeLink Portable Duo User Manual for detailed instructions

7 Enter Screen Settings

Exit to the File Manager if the Host Application is running (press Ctrl-Alt-Q or click the “Exit” button from the Setup screen and then choose “Exit”).

From the File Manager, press the Configuration Button.



From the Configuration screen press the Screen Settings button.



Follow the instructions that appear to enter the Screen Dimensions, Display Resolution, Eye-to-Screen Distance, Camera-to-Screen Distance, and Optimal Target-to-Camera Distance.

See Section 5.4 of the EyeLink Portable Duo Installation Guide for detailed instructions



For additional support, please contact SR Research:
Email: support@sr-research.com
Support forums: www.sr-support.com
Phone: 613-271-8686
Toll Free: 1-866-821-0731

8 Install Display PC Software

Display PC software installers are provided on the USB drive that came with the system; or, the most up-to-date installers can be downloaded from <https://www.sr-support.com>, or from the following links:

A) Experiment Builder (Windows and macOS):

<https://www.sr-research.com/experiment-builder>

B) Data Viewer (Windows and macOS):

<https://www.sr-research.com/data-viewer>

C) EyeLink Developers Kit (Windows, macOS, and Linux):

<https://www.sr-support.com/thread-13.html>

Experiment Builder and Data Viewer require the use of a USB HASP license key. The license key driver can be installed in Windows from “Start → Programs → SR Research → Install Hasp Driver”, or in macOS from the installer packages.

Run Experiment Builder to access example projects from the “File → Examples” menu.

Even more examples can be found at:

<https://www.sr-support.com/thread-349.html>

The system is also compatible with E-Prime, Psychtoolbox for Matlab, Presentation, LabView, Python, C/C++, C#, and the Windows COM interface. After installing the EyeLink Developers Kit, example projects for other programming environments will be available in Windows under “Start → Programs → SR Research → EyeLink Sample Experiments” and in macOS under “Applications → EyeLink → SampleExperiments”.