Nanoscope Instruments, Inc.

NS-Y Mobility Test Quick Start

Introduction

Please read the full instructions for use available in the shipping box with this product. You can also access the instructions for use by contacting info@nanoscopeinstruments and/or calling 817-719-2692 before operating the Y Mobility test product. All statements regarding safety and any technical specifications only apply when the product is operated correctly.

This product is intended for research use only and is NOT cleared or certified for clinical diagnosis.

This product contains a high-powered LED device. Avoid directly looking at the device at the full power setting

Thank you for purchasing an NS-Y Mobility Test product from Nanoscope Instruments. Our goal at Nanoscope Instruments is to build standalone instruments with customizable features and intuitive software interface to enable researchers simultaneously manipulate, stimulate, and monitor structural and functional changes.

The Nanoscope Instruments NS-Y Mobility Test device is a visually guided mobility test designed for quantitatively measuring visual level of low vision subjects in clinical use. The NS-Y Mobility Test system is designed to track a user's ability to navigate accurately at different levels of light illumination. A user with 20/200 vision or better is able to perform the Y Mobility Test without difficulty. Nanoscope's Y Mobility Test enables quantitative measurement of functional vision that can be correlated with subject's real-life visual perception and interaction.

The team at Nanoscope Instruments is available to support your work. If you have questions or feedback, please contact us at the email address or phone number below.

Contact: Nanoscope Instruments, Inc., 1312 Brown Trail, Suite D, Bedford, TX 76022USA
Email: info@nanoscopeinstruments.com
Phone: 1-817-719-2692

Version number of this manual: 1.1

NS-Y Mobility Test hardware version: 2.0

Software version: 1.0.

Quick Start

Carefully open the shipping box and unpack all items. Contents include:

1. User Manual
2. NS-Y Mobility Test Hardware (2 LED panels with stands)
3. 7 inflatable punch bags (obstacles)
4. 1 inflation pump
5. Appropriate Power supply with 18V DC cord (US, EU, AU, IN, and UK)
6. Laptop (tablet) with its charger
7. Lux meter

> *If any items are missing, please contact us directly at* info@nanoscopeInstruments.com

1. Prior to setting up the NS-Y Mobility Test product, please turn on the provided laptop.
2. Set up the LED panels (marked Right side, and Left side) and the light stands.
3. Plug 18V DC power supply labeled "A" into electrical outlet and connect it to the port labeled "A" at the back of right panel.
4. Connect the power cable labeled "B" coming out of the right panel into the port labeled "B" at the back of left LED panel.
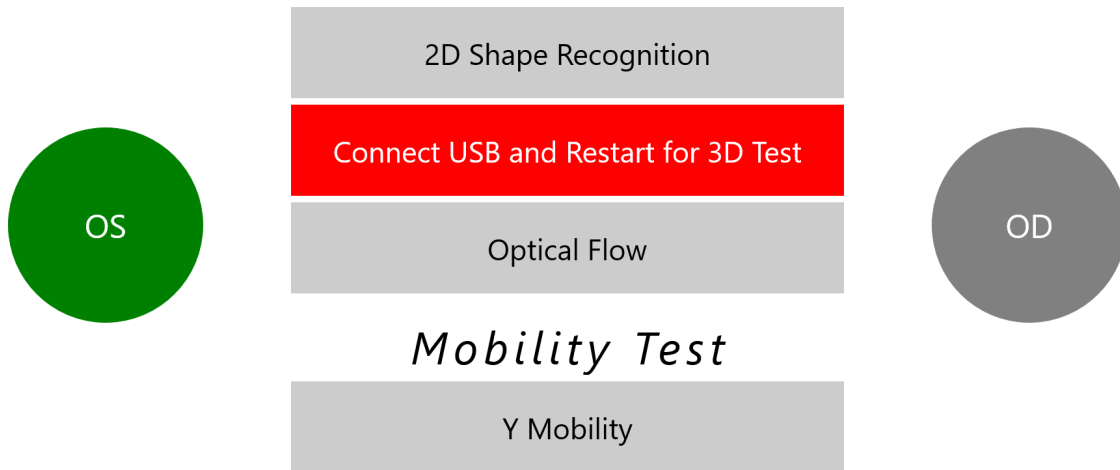5. Plug USB port from the right panel to the provided laptop.

NS-Y Mobility Test

Software

Enter Subject ID:

Low Vision Testing Module

L V M P T

2D Shape Recognition

Connect USB and Restart for 3D Test

Optical Flow

OS

OD

Mobility Test

Y Mobility

SN:19-002-022721-01

Starting

Before following testing, protocol make sure to have the following done.

1. The Y Mobility LED panels should be plugged in.
2. The Low vision testing module software should be running.
3. Verify that the Y Mobility program is communicating with the device.

Instructions

Make sure the following are consistent throughout the testing procedure.

i. *Position the two light panels at 5-10 ft apart.*
ii. *Set up the starting line and obstacles at designated area.*
iii. *If Y Mobility tab in the Low Vision Testing Module is lit up red, close the software and plug the USB from the LVMPT system to the laptop, then restart the software.*

1. **Y Mobility Test**
   a. Press Y Mobility tab to start.
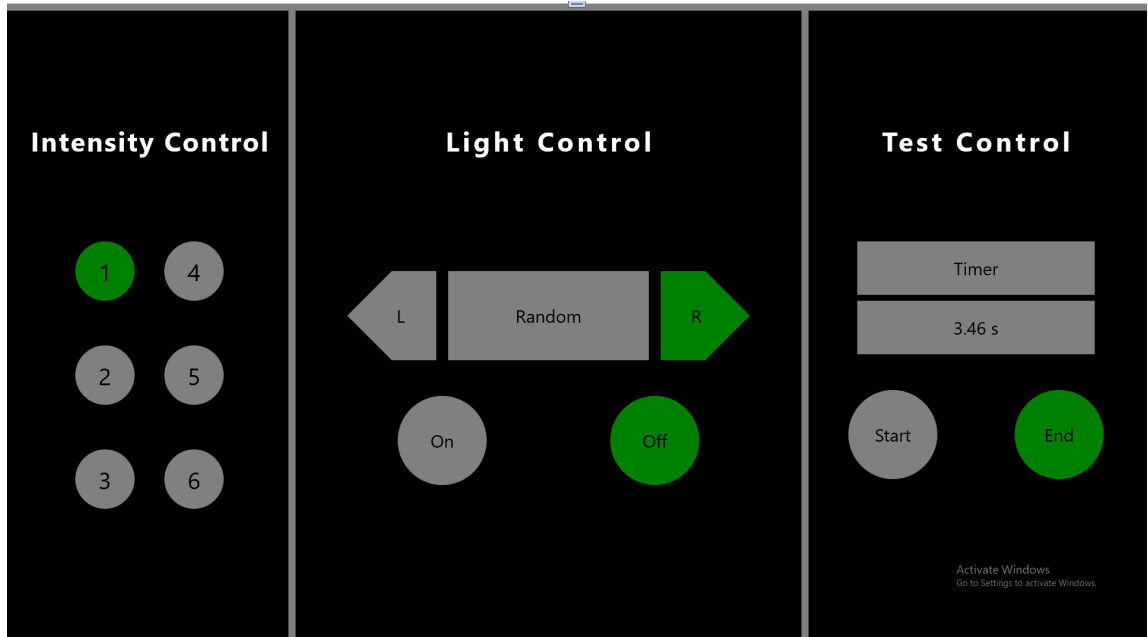
   b. Intensity Control Panel
      i. Change intensity of the LED panels from 1 to 6 levels (low to high intensity).
   c. Light Control Panel
      i. Select left or right side of the LED panel.
      ii. "Random "button enables either left or right LED panel.
      iii. Hit the "On" button to turn/test the lights.
      iv. When "On" button is on, "Start" button on Test control panel will be disabled.
      v. Use "Off" button to turn off the lights.
   d. Test Control Panel
      i. The timer will start on you hit the "Start".
      ii. Use "End" button to stop the test and the timer.
      iii. When the test is running, "Off" button in Light control panel will be disabled.
   e. Make sure to record the time, after the test.

Customized Y-Mobility Test Configuration

Software Configuration File

Software configuration file can be modified to enable more advanced options in the User Interface. If you need access and modify the configuration file, please contact us at info@nanoscopeinstruments.com.

Hardware

The hardware and software (Shape configuration) of the NS-Y Mobility Test product can be configured and is customizable depending on the user's request and application. However, there are no user-adjustable or

serviceable parts inside chassis, and the warranty will be void if either the chassis is opened. For customization, upgrade and service, please contact info@nanoscopeinstruments.com.

Customer Support

If you need further support, you can contact us at: **info@nanoscopeInstruments.com**, or by phone at **1(817)719-2692**.

To facilitate customer support, TeamViewer has been installed in the laptop. Provided that the product has an internet connection, we can, with your permission, remotely control the NS-Y Mobility product to assist with any issues. Using TeamViewer requires the following steps:

1. Contact us by phone or email to discuss any issues and to set up a meeting time and contact phone number.
2. At the meeting time, start TeamViewer from the icon on the desktop.
3. We will call your phone number.
4. You will give us the access code from TeamViewer.
5. We will remote in from our machine and assist with the issues discussed.
6. Once completed, you will shut down the TeamViewer application on the NS-Y Mobility Test product.

Note that we cannot access your product without you giving us the TeamViewer code generated by your product. We do not collect any information beyond what is needed to troubleshoot issues for which you have requested help.

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