Welcome

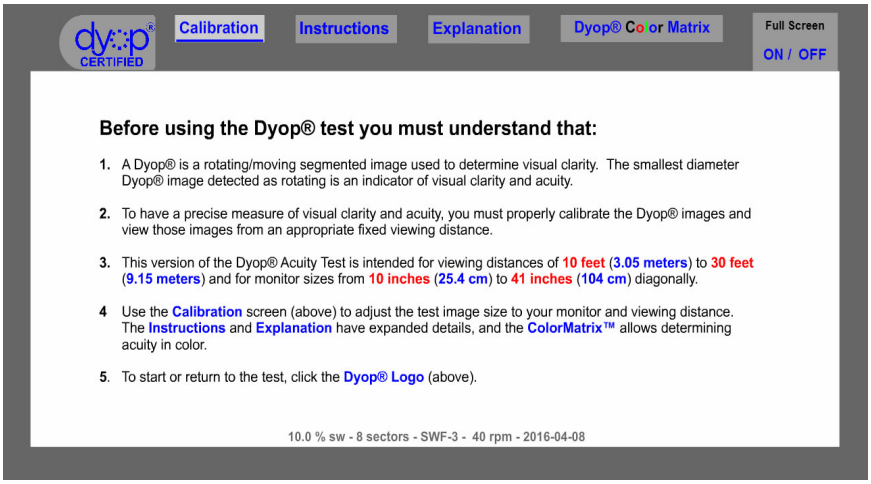
to 21st Century Visual Clarity Measurement

VISION ASSOCIATES

The 21st century method for measuring visual acuity.

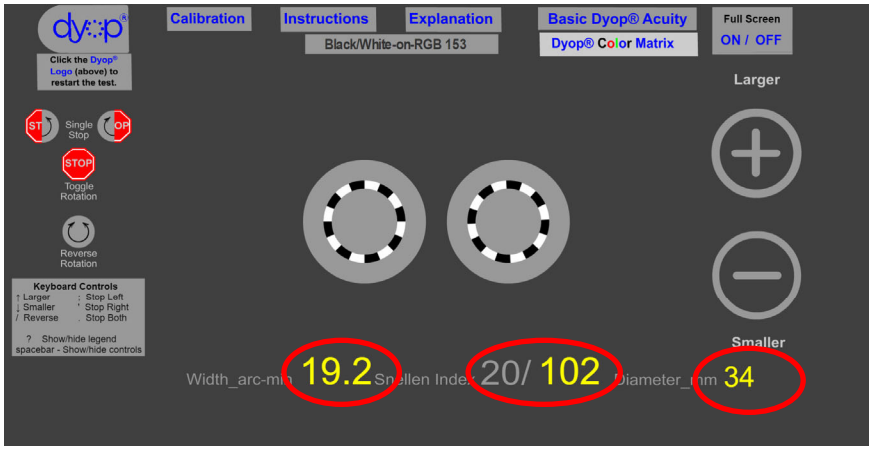
Introduction

The methodology for the Dyop® test requires that the optotypes be properly calibrated for both the monitor and viewing distance.



Snellen and Dyop® Index values

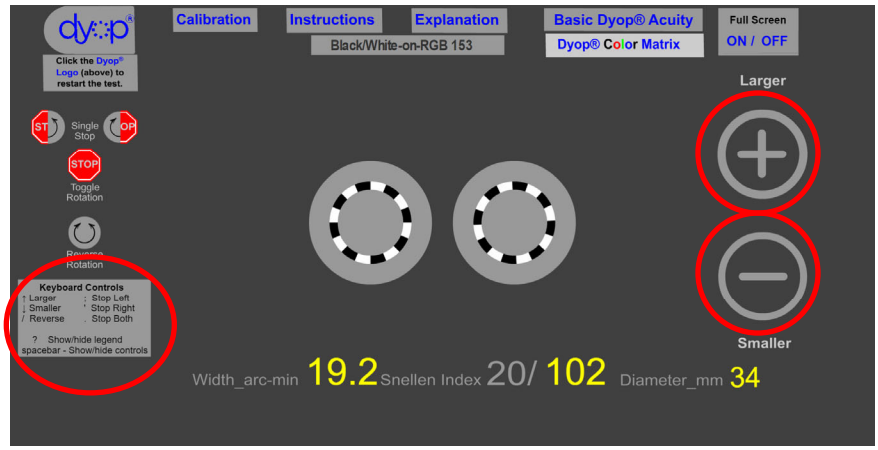
Snellen, Dyop Arc Width, and screen diameter values are automatically presented.



 Dyop® Vision Associates LLC 3

Reduce the Dyop® diameter

Use the Mouse Scroll Wheel or screen Up/Down arrows or Keyboard Arrows to reduce the Dyop® image diameters. Use the ; ' . / Keyboard keys to control the image rotation.

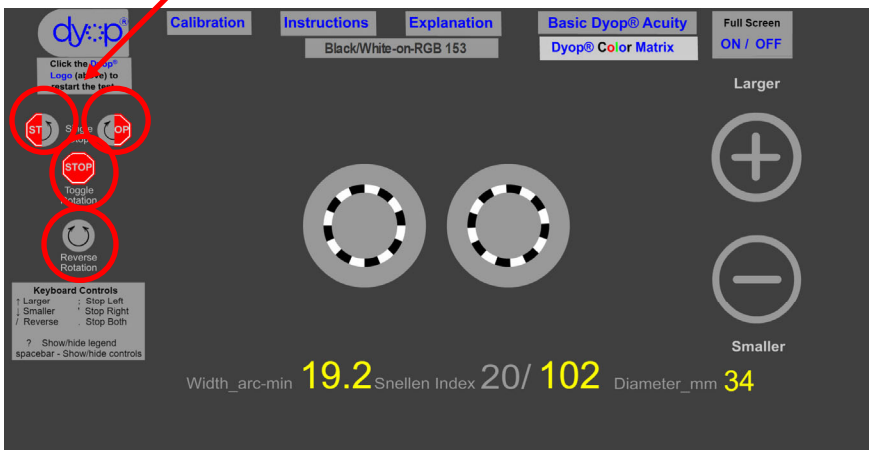


 Dyop® Vision Associates LLC 4

Screen Buttons

Test for “false positives” using the Reverse Rotation, Stop-toggle, and Single Stop buttons.

Screen Control Buttons

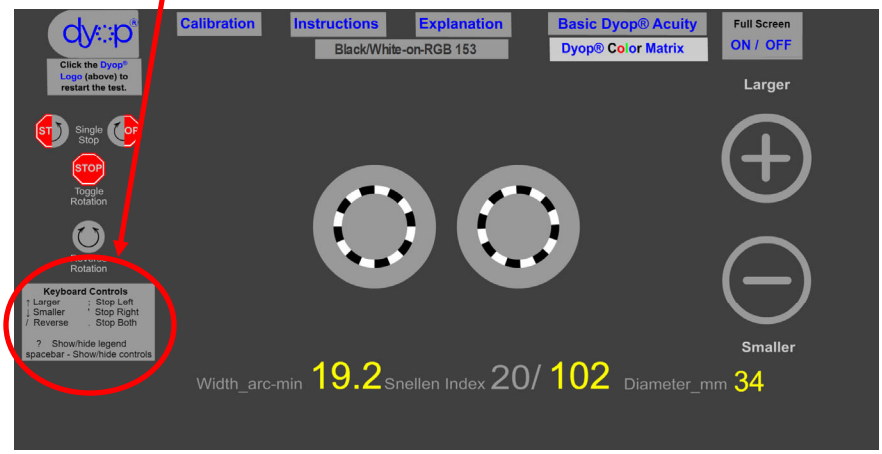


 Dyop® Vision Associates LLC 5

Keyboard Keys

Test for “false positives” using the Reverse Rotation, Stop-toggle, and Single Stop Keys.

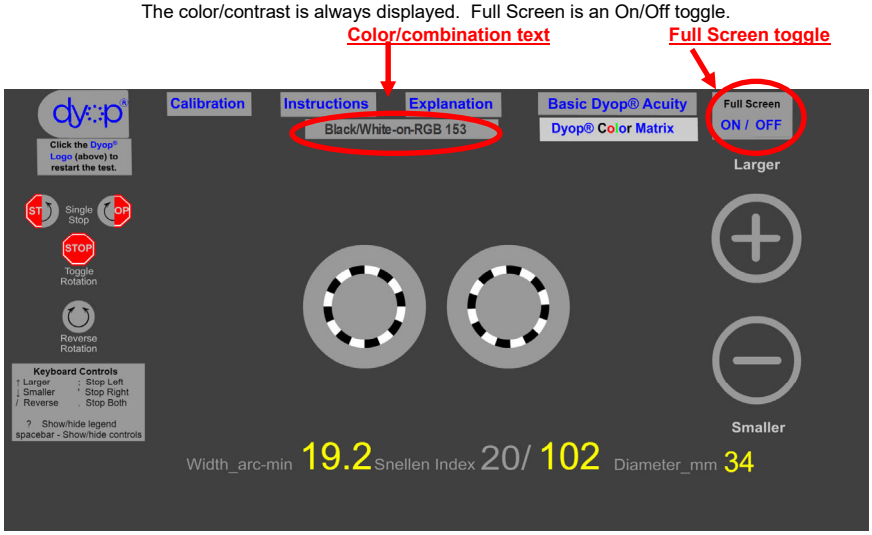
Keyboard Control Guide



 Dyop® Vision Associates LLC 6

Color/Contrast and Full Screen

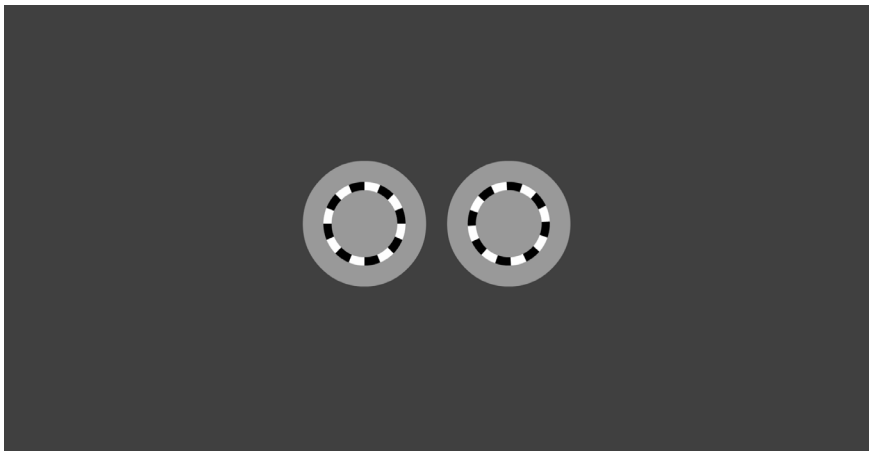
The color/contrast is always displayed. Full Screen is an On/Off toggle.



 7

Minimalist Display

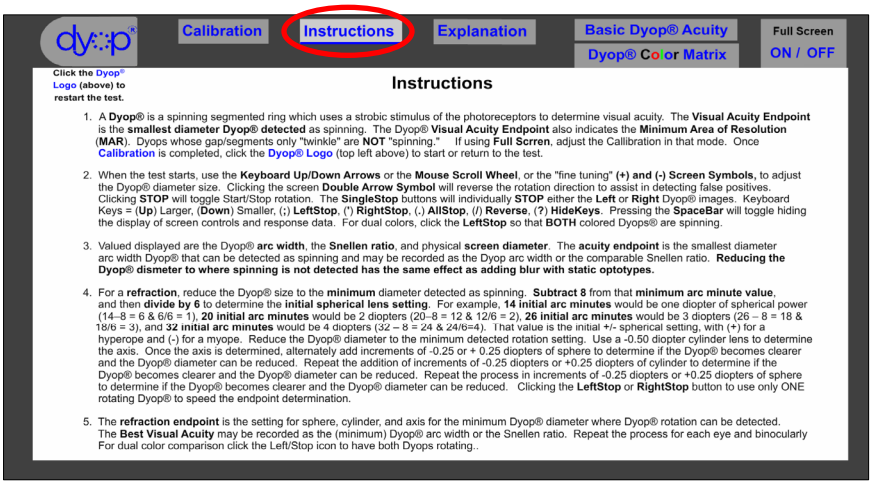
Pressing the **Space Bar** toggles the display of the screen controls and image size information so that **ONLY** the Dyops are displayed.



 8

Instructions Panel

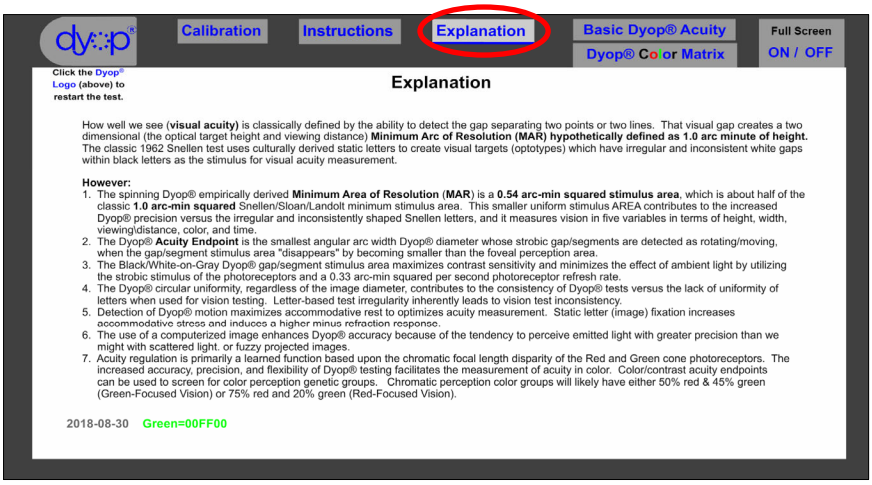
Dyop® accuracy and precision can be calibrated
for almost any computer monitor and viewing distance.



 Dyop® Vision Associates LLC 9

Explanation Panel

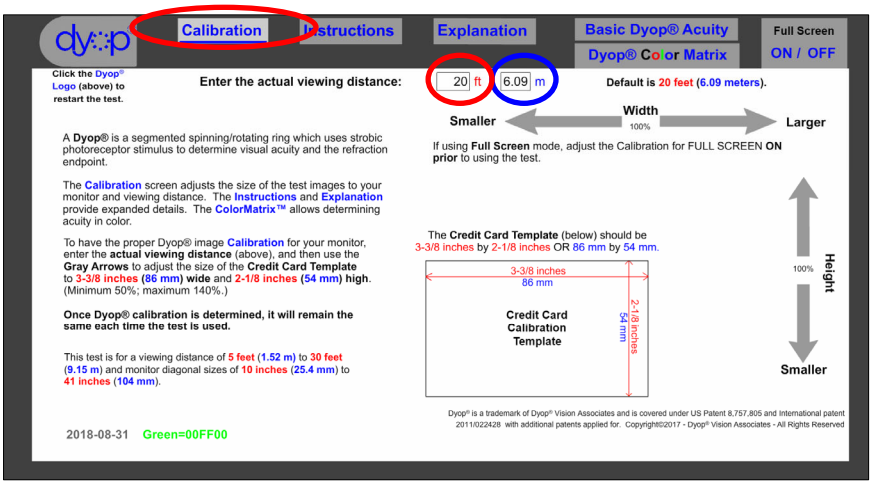
The technology of Dyop® acuity measurement was not available in 1862.
Dyop® testing measures photoreceptor responses in Black/White and in color.



 Dyop® Vision Associates LLC 10

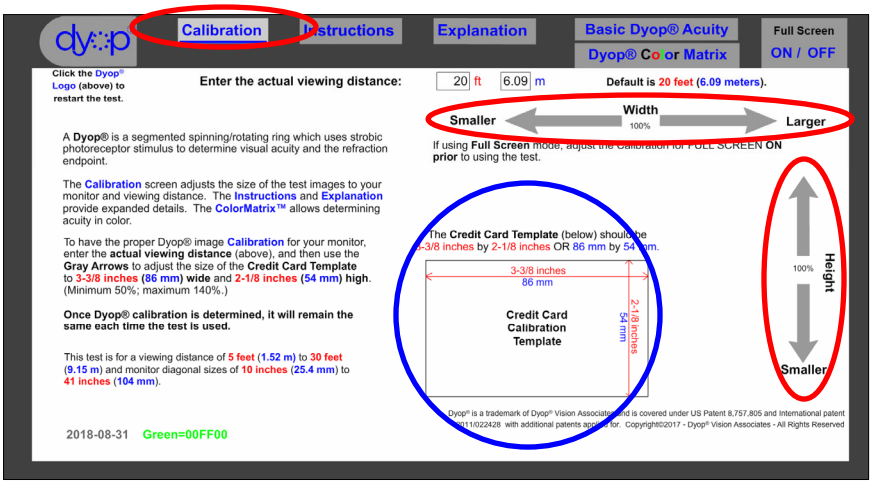
Adjust for the viewing distance

Enter the **viewing distance** as either feet or meters.
Once determined, the distance adjustment will be maintained by the browser.



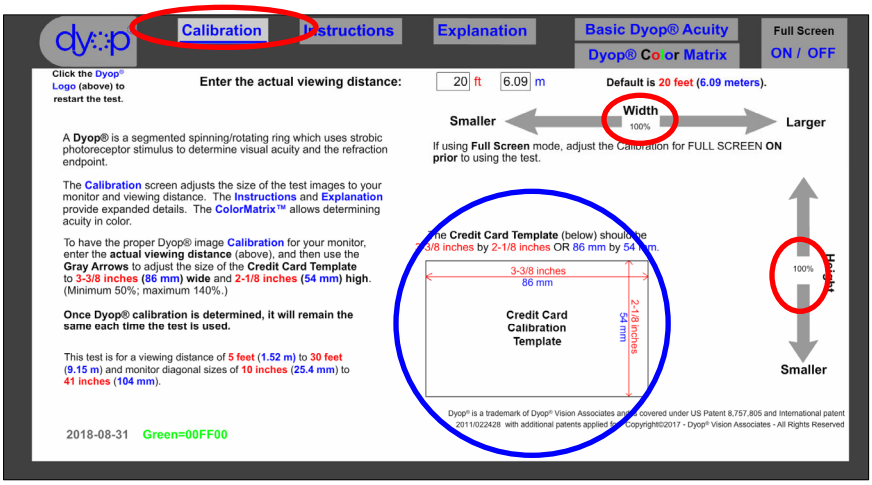
Adjust for the Monitor Size

Use the **Gray Arrows** to adjust the size of the **Credit Card Template** to **3-3/8 inches** (**86 mm**) **wide** and **2-1/8 inches** (**54 mm**) **high** to have the proper Dyop® image sizes for your monitor..



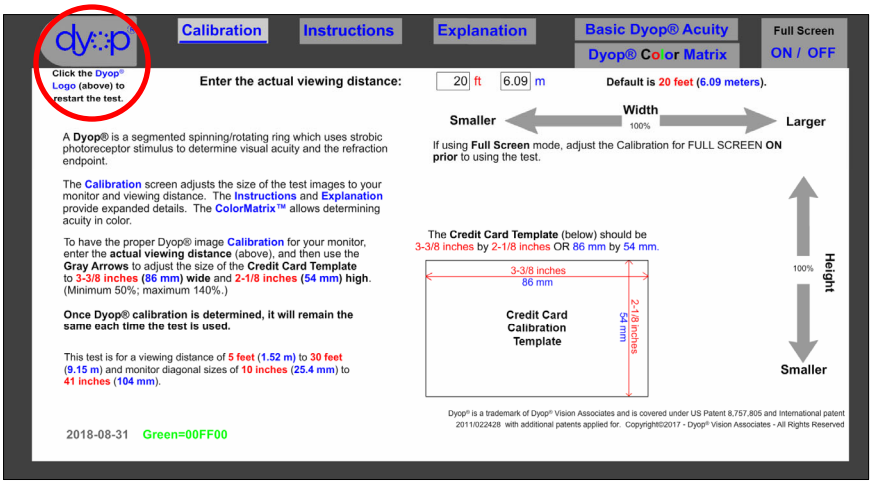
Adjust for the Monitor Size

Once determined, the precise monitor percent adjustment image size will be maintained by the browser.



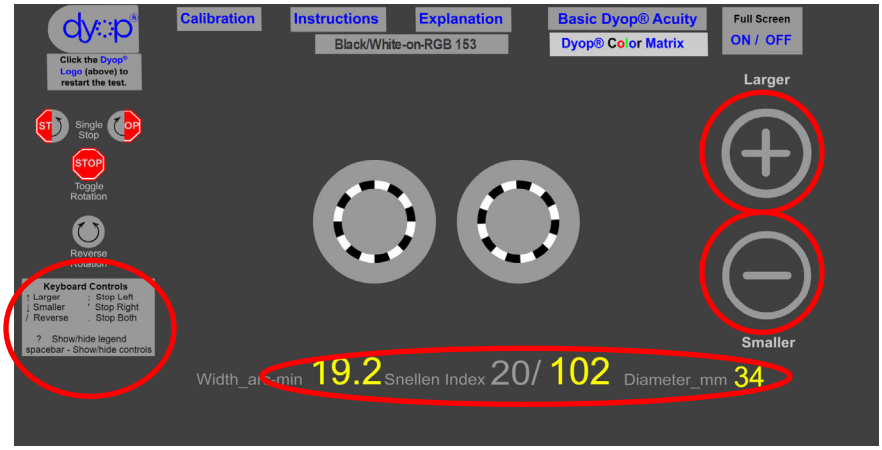
Click the Dyop® logo to Start

After determining the proper calibration, click the Dyop® Logo to start the test.
The monitor calibration and viewing distance will be remembered by your browser.



Use the Mouse Scroll Wheel

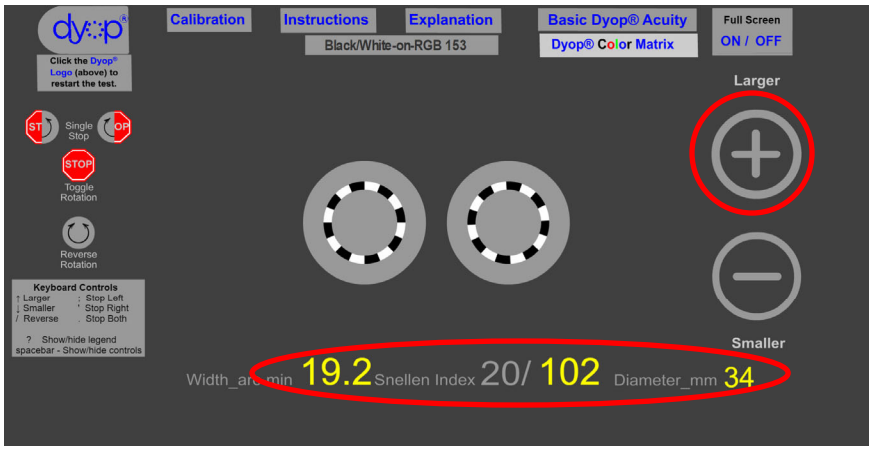
The screen **Plus/Minus Icons** change the Dyop® image diameter angular arc width.
You can also use the **Keyboard Arrows** and ; ‘ . / keys to control the image size and rotation.



 Dyop® Vision Associates LLC 15

Use the Mouse Scroll Wheel

The **Plus Icon** increases the Dyop® image diameter angular arc width
You can also use the **Keyboard Arrows** and ; ‘ . / keys to control the image size and rotation.



 Dyop® Vision Associates LLC 16

Use the Mouse Scroll Wheel

The **MINUS Icon** decreases the Dyop® image diameter angular arc width
You can also use the **Keyboard Arrows** and ; ‘ . / keys to control the image size and rotation.

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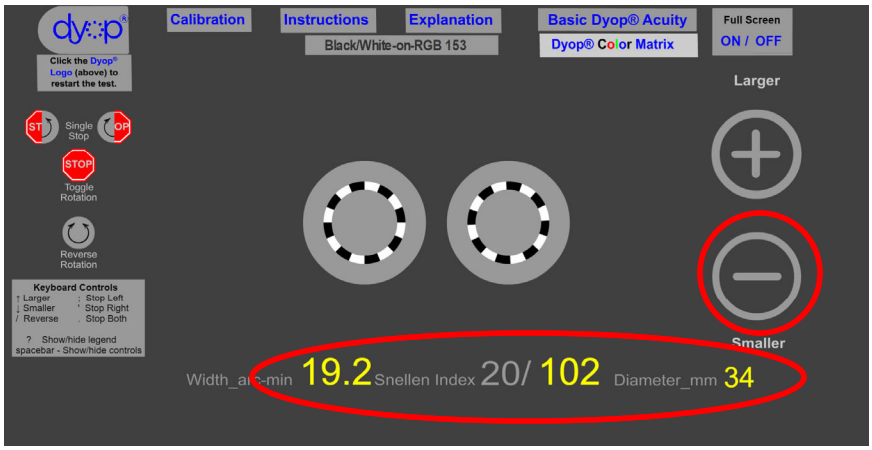
Use the Mouse Scroll Wheel

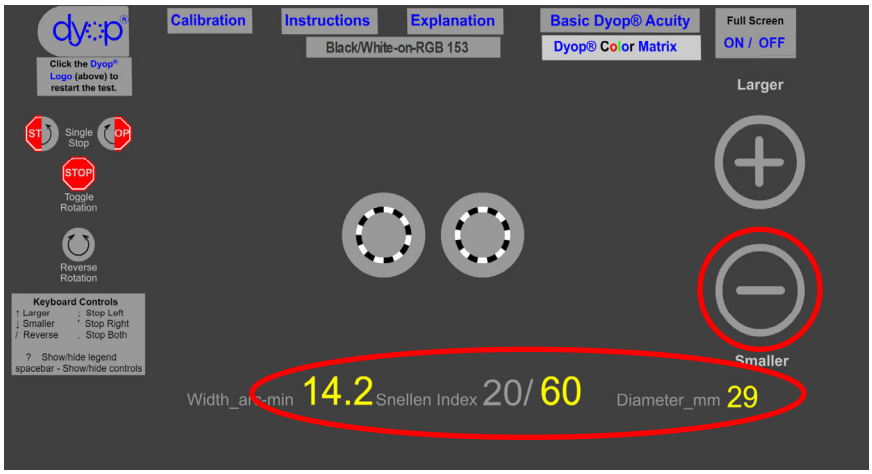
The **DOWN Arrow** decreases the Dyop® image diameter angular arc width
You can also use the **Keyboard Arrows** and ; ‘ . / keys to control the image size and rotation.



 Dyop® Vision Associates LLC 18

Use the Mouse Scroll Wheel

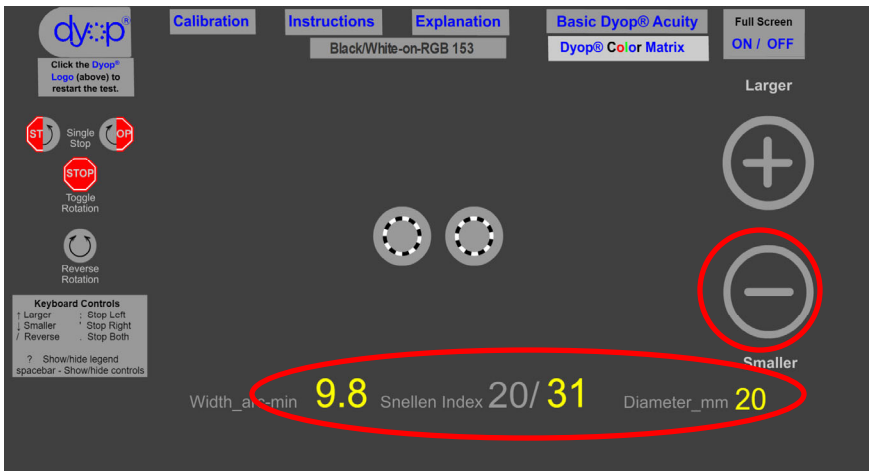
The **DOWN Arrow** decreases the Dyop® image diameter angular arc width
You can also use the **Keyboard Arrows** and ; ‘ . / keys to control the image size and rotation.



 Dyop® Vision Associates LLC 19

Use the Mouse Scroll Wheel

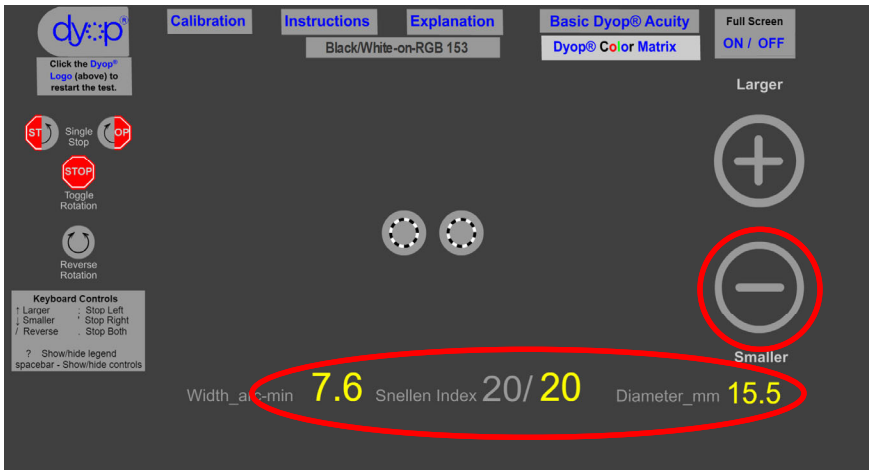
The **DOWN Arrow** decreases the Dyop® image diameter angular arc width
You can also use the **Keyboard Arrows** and ; ‘ . / keys to control the image size and rotation.



 Dyop® Vision Associates LLC 20

Use the Mouse Scroll Wheel

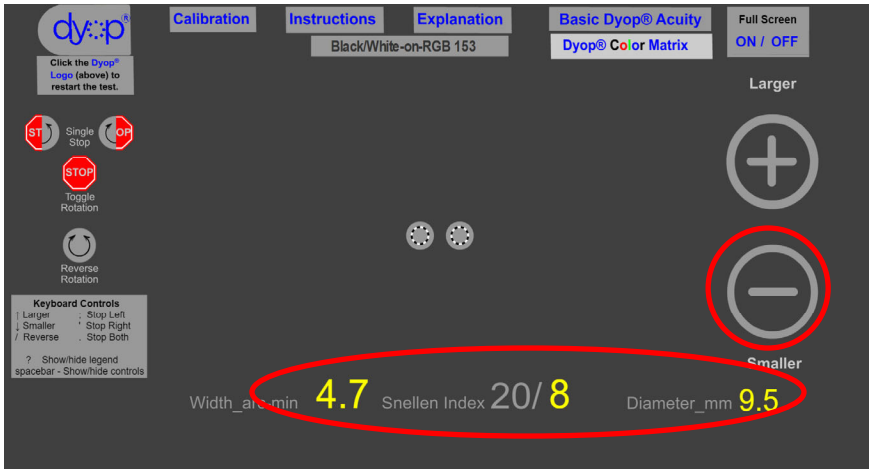
The **DOWN Arrow** decreases the Dyop® image diameter angular arc width
You can also use the **Keyboard Arrows** and ; ' . / keys to control the image size and rotation.



 Dyop® Vision Associates LLC 21

Use the Mouse Scroll Wheel

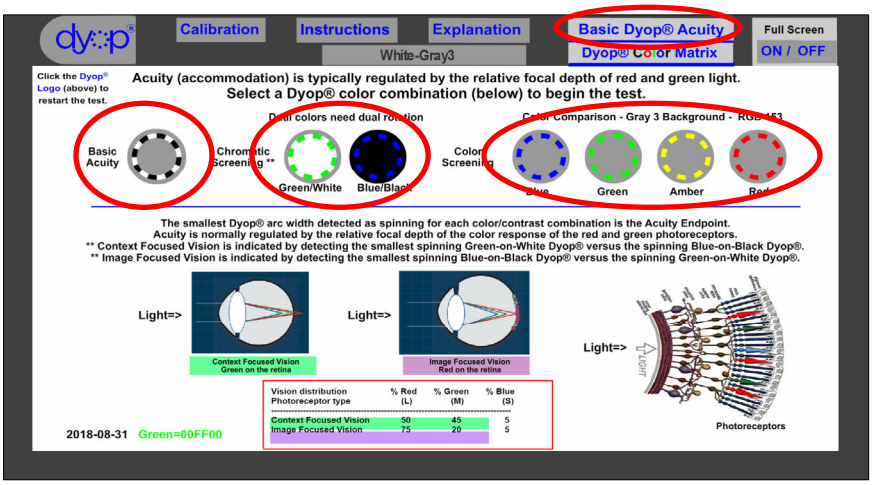
The **DOWN Arrow** decreases the Dyop® image diameter angular arc width
You can also use the **Keyboard Arrows** and ; ' . / keys to control the image size and rotation.



 Dyop® Vision Associates LLC 22

Basic Dyop® Acuity

Select the color for basic acuity testing



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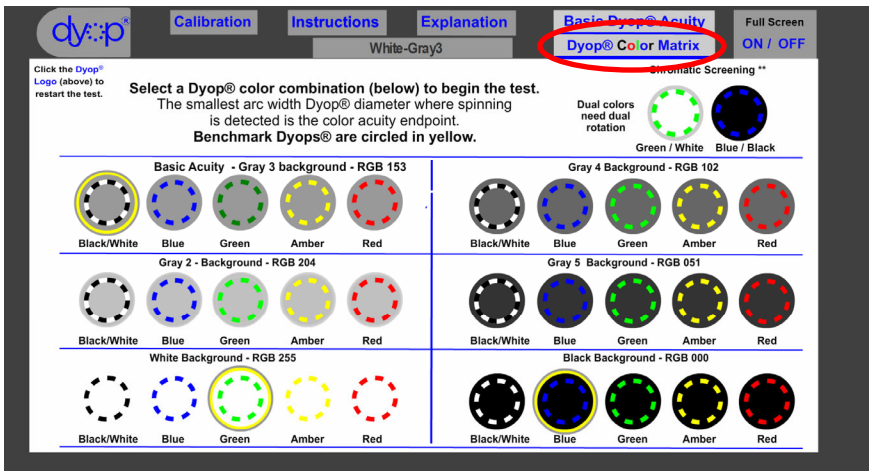
ColorMatrix™ Menu

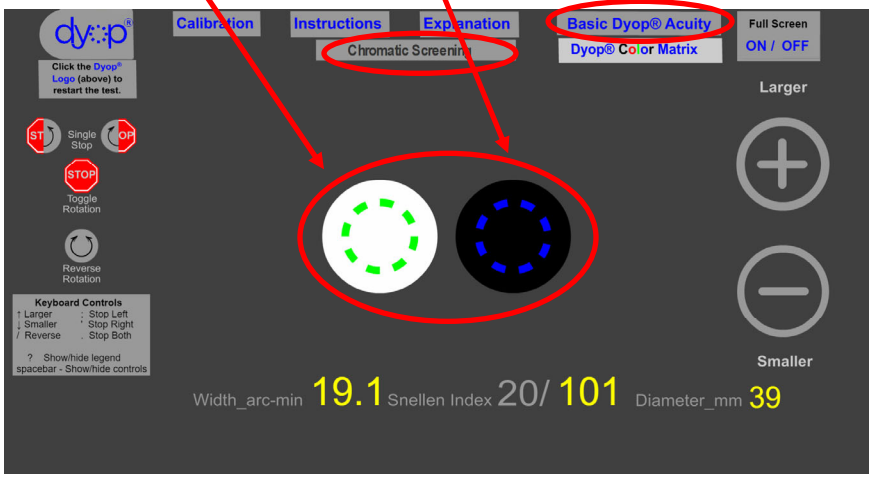
Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 24

Color Focus Group Screening

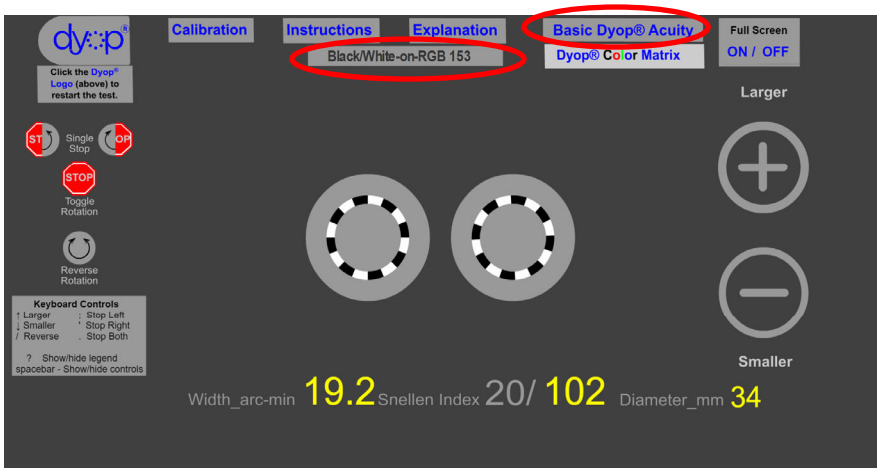
Green-on-White versus Blue-on-Black color group screening.



 Dyop® Vision Associates LLC 25

Black/White-on-Gray contrast sensitivity

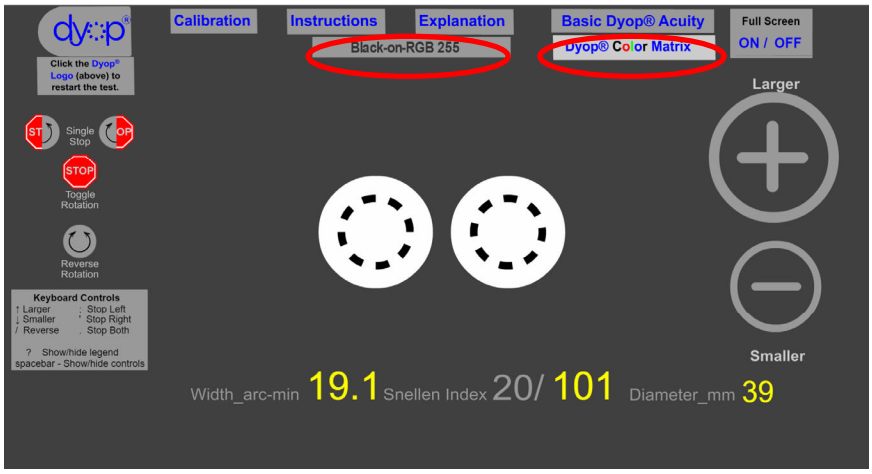
Compares to classic Snellen/Sloan/Landolt acuity.



 Dyop® Vision Associates LLC 26

Black-on-White contrast sensitivity

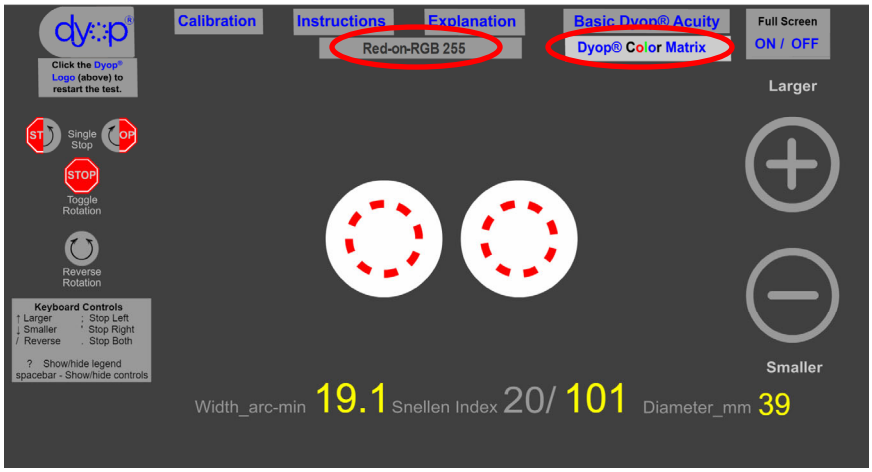
Compares to classic Snellen/Sloan/Landolt acuity.



 27

Red-on-White contrast sensitivity

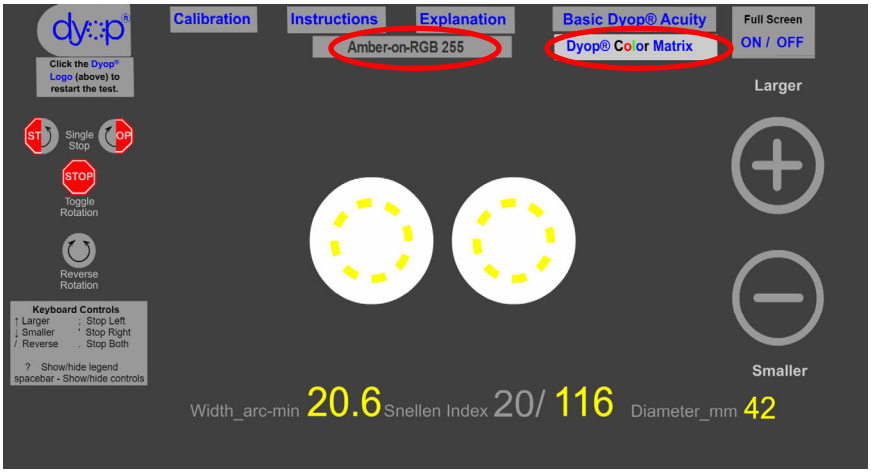
Select the color/combination for additional testing.



 28

Amber-on-White contrast sensitivity

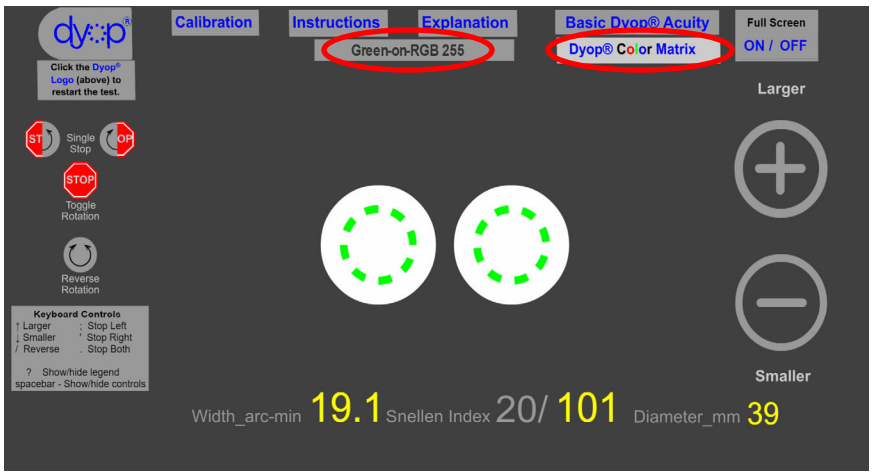
Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 29

Green-on-White contrast sensitivity

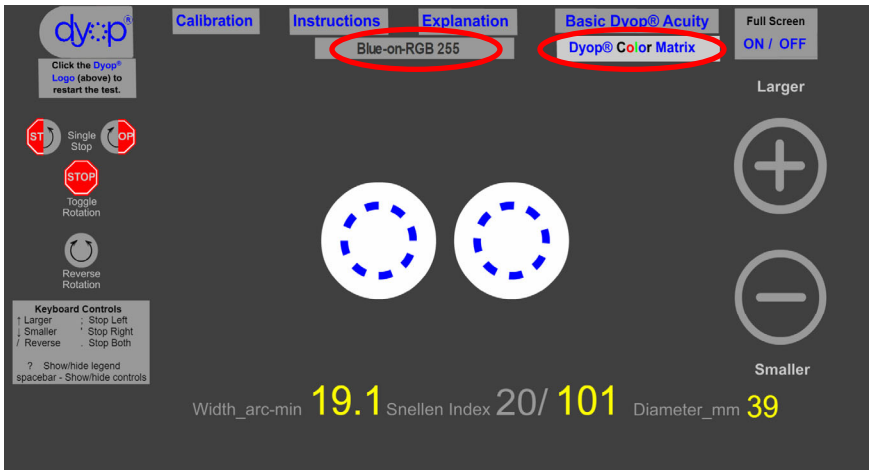
Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 30

Blue-on-White contrast sensitivity

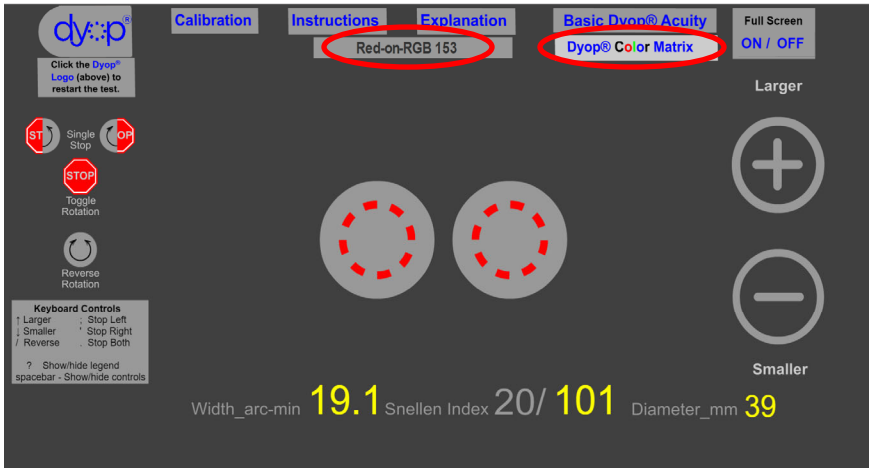
Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 31

Red-on-Gray contrast sensitivity

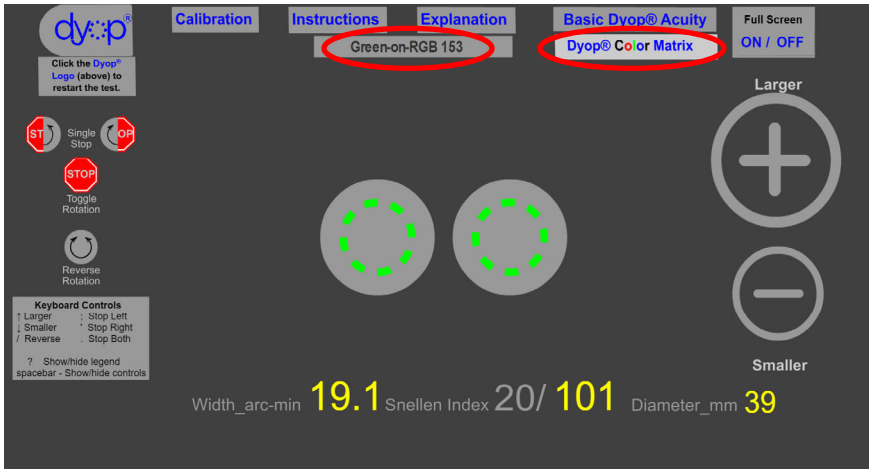
Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 32

Green-on-Gray contrast sensitivity

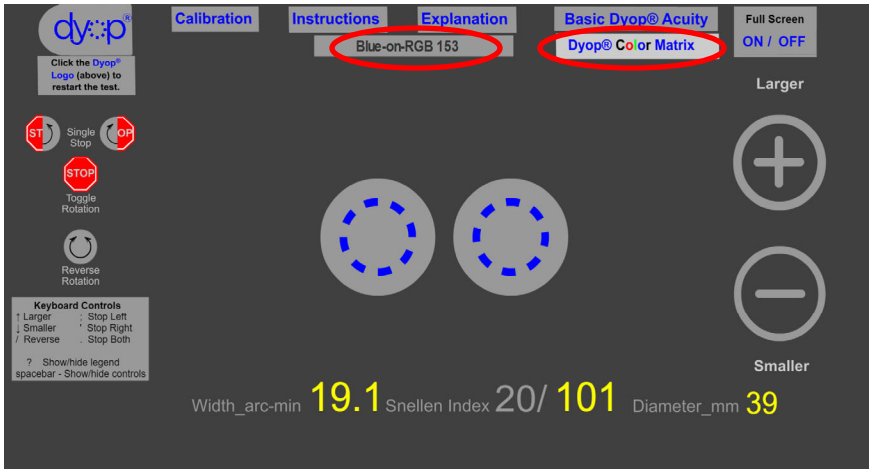
Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 33

Blue-on-Gray contrast sensitivity

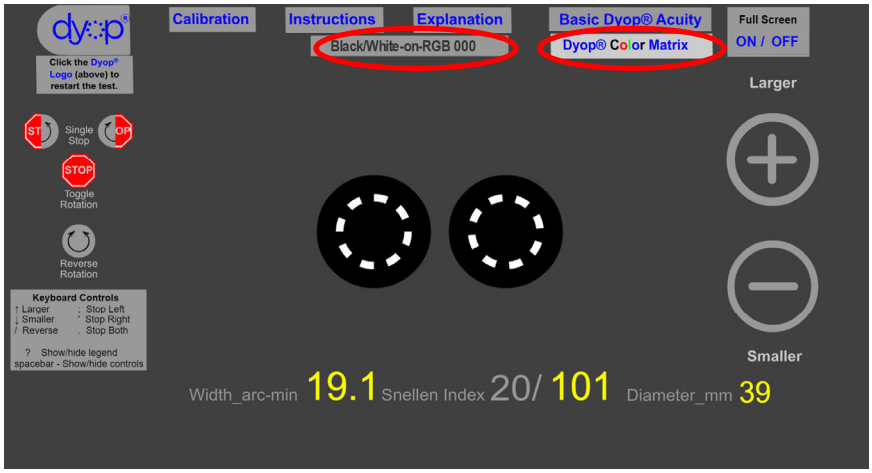
Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 34

White-on-Black contrast sensitivity

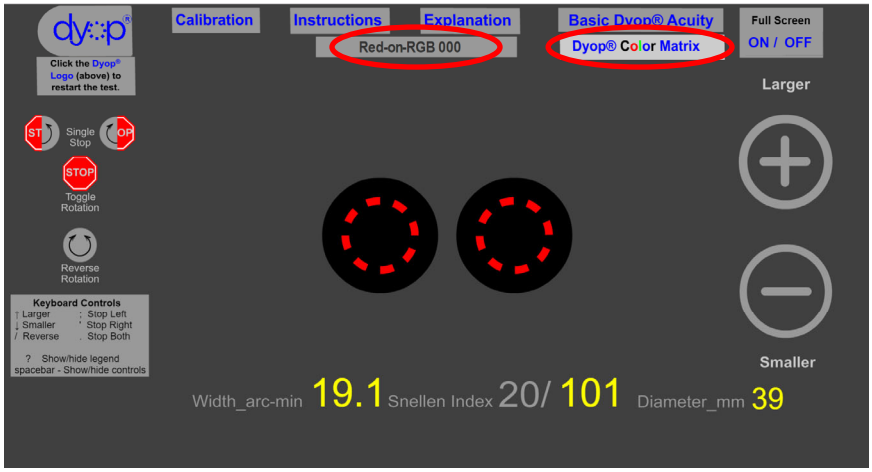
Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 35

Red-on-Black contrast sensitivity

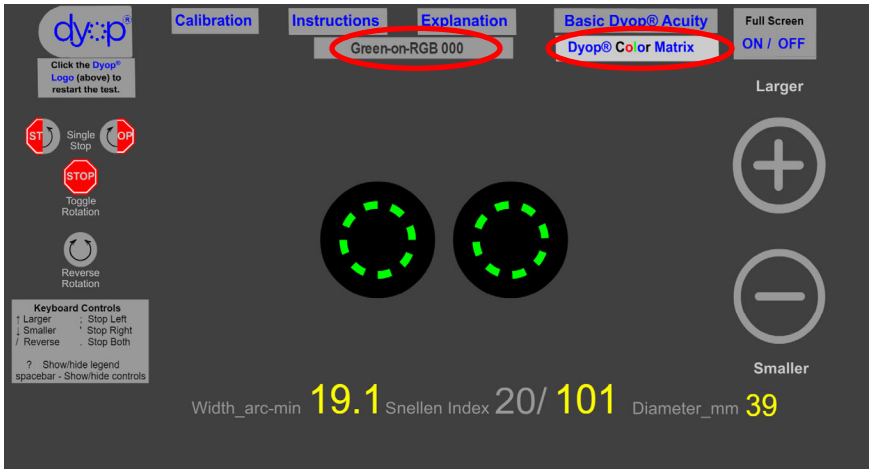
Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 36

Green-on-Black contrast sensitivity

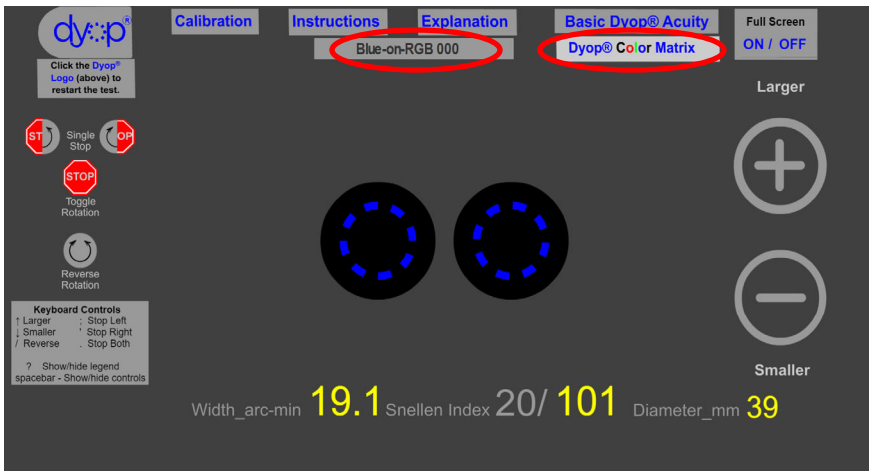
Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 37

Blue-on-Black contrast sensitivity

Select the color/combination for additional testing.



 Dyop® Vision Associates LLC 38