

# Welcome to 21<sup>st</sup> Century Visual Clarity Measurement

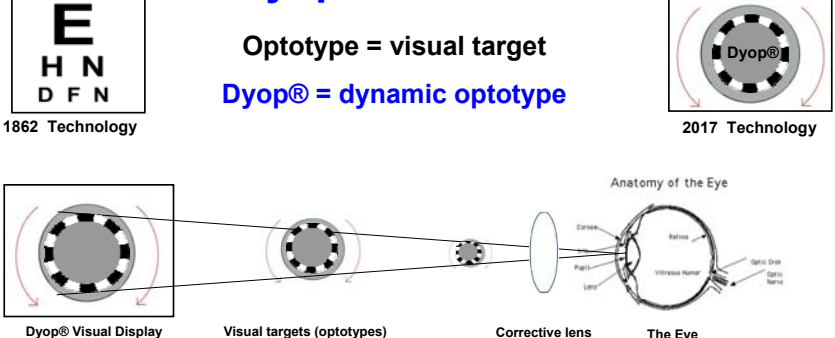


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Dyop® Vision Associates LLC

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## How a Dyop® Vision Test Works




**Dyop® gaps/segments** provide a **strobic** photoreceptor **stimulus**.

The **Dyop® acuity endpoint** is the **smallest Dyop® arc width diameter** where a **person is able to detect the rotation**.

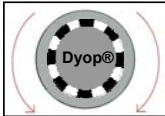
2

## How a Dyop® Vision Test Works

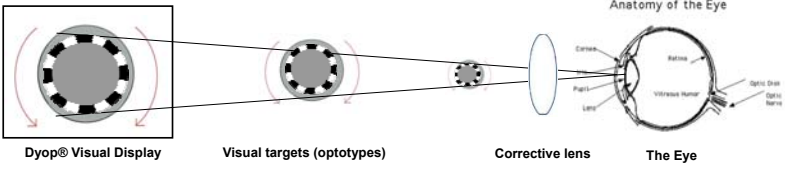


1862 Technology

Optotype = visual target  
Dyop® = dynamic optotype



2017 Technology



Anatomy of the Eye

**A Dyop® test is:**  
 four times more precise than static image testing,  
 six time more consistent than static image testing,  
 twice as efficient, avoids overminusing,  
 minimizes fixation, minimizes decision fatigue, and  
 does not require patient literacy.

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## Initial Chart2020 Sloan test

Chart2020 uses peripheral roll-over icons to access its tests

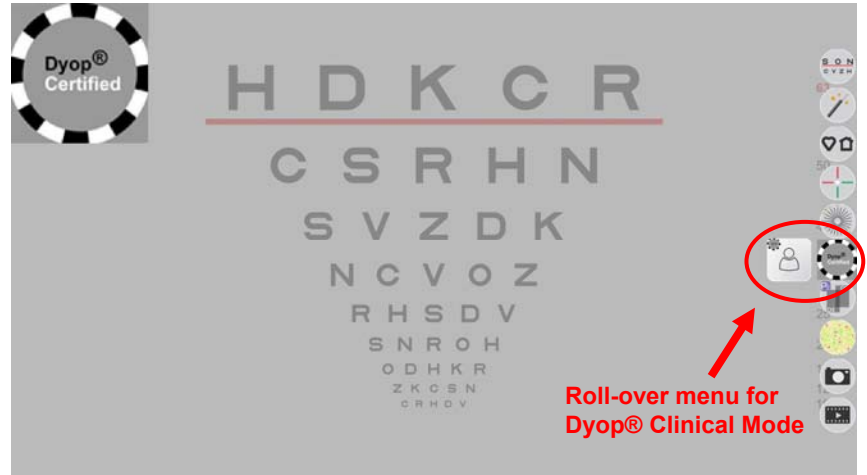
63

H D K C R	63
C S R H N	50
S V Z D K	40
N C V O Z	32
R H S D V	25
S N R O H	20
O D H K R	16
Z K C S N	12
C R H D V	10

4

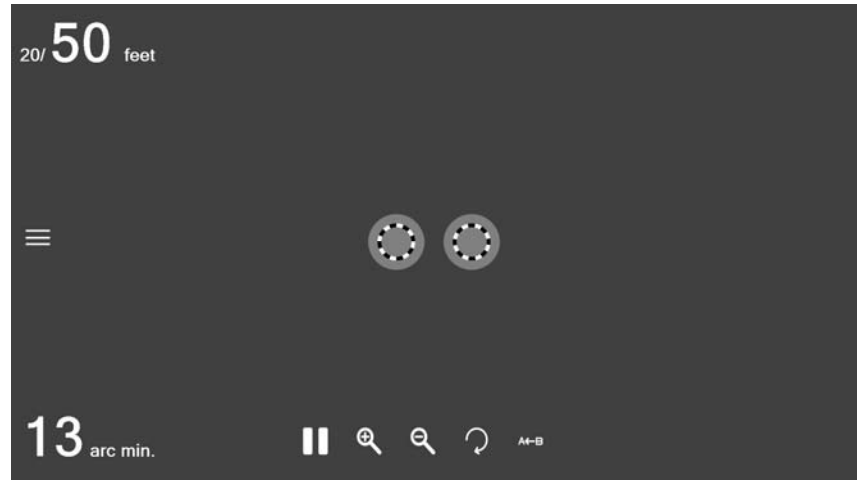
## Select the Dyop icon

The right margin Chart2020 icons access the Dyop® tests.



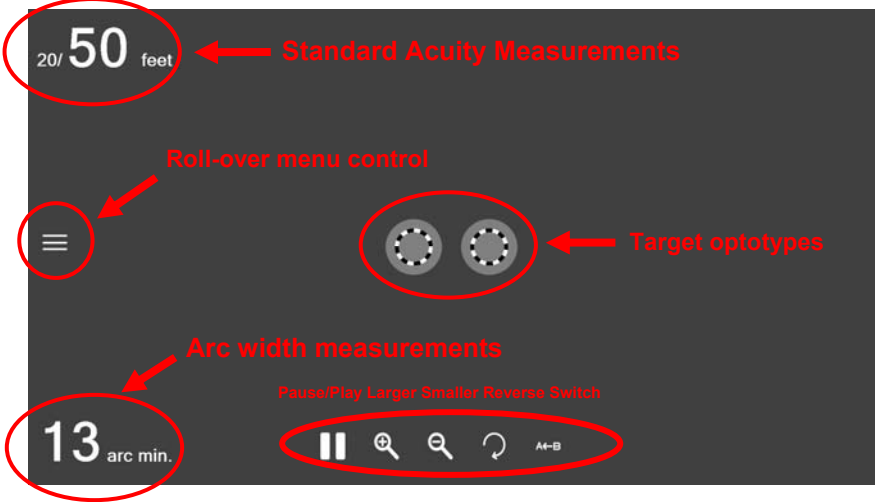
## Clinical Mode 20/50 Snellen/Sloan Acuity

Initial Dyop® Clinical Mode - Snellen/Sloan 20/50



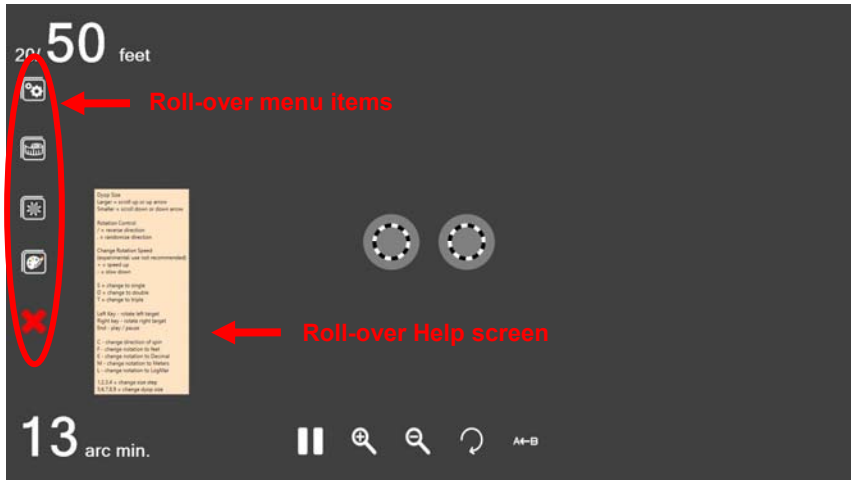
# Dyop® Screen Controls

The initial Dyop® screen has simple controls & display



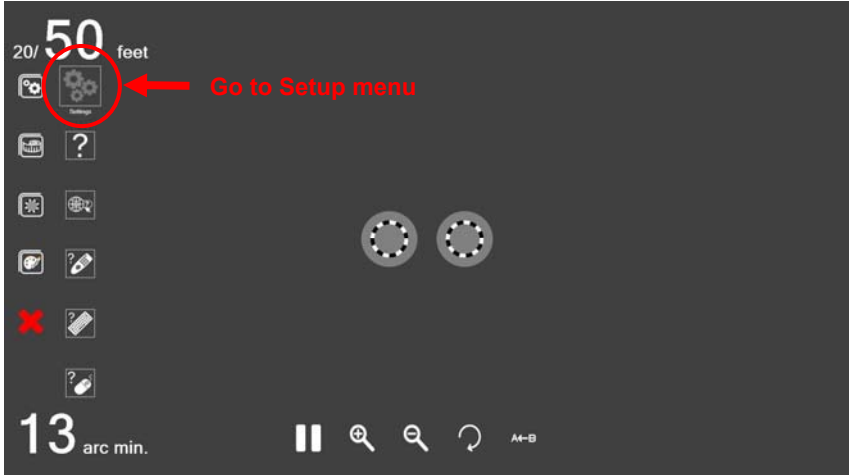
# Dyop® Screen Controls

Roll-over Dyop® control menu shows additional control icons



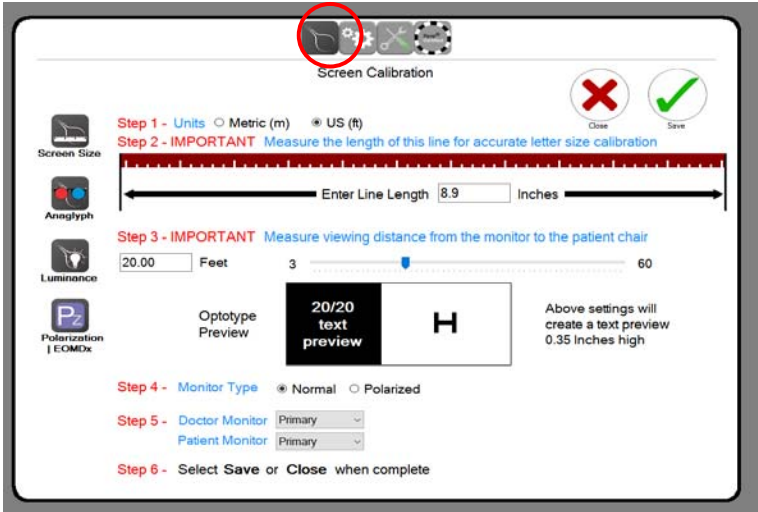
# Dyop® Screen Controls

Go to the Settings menu for proper calibration



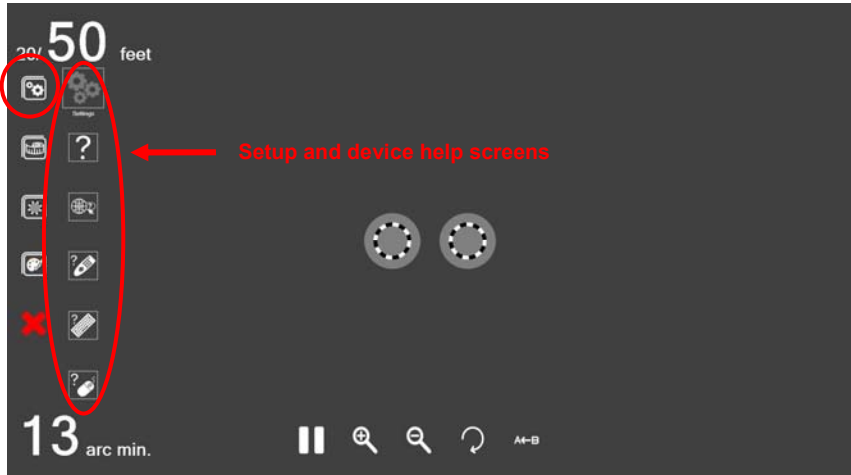
# Dyop® Screen Controls

Enter the calibration line size and viewing distance



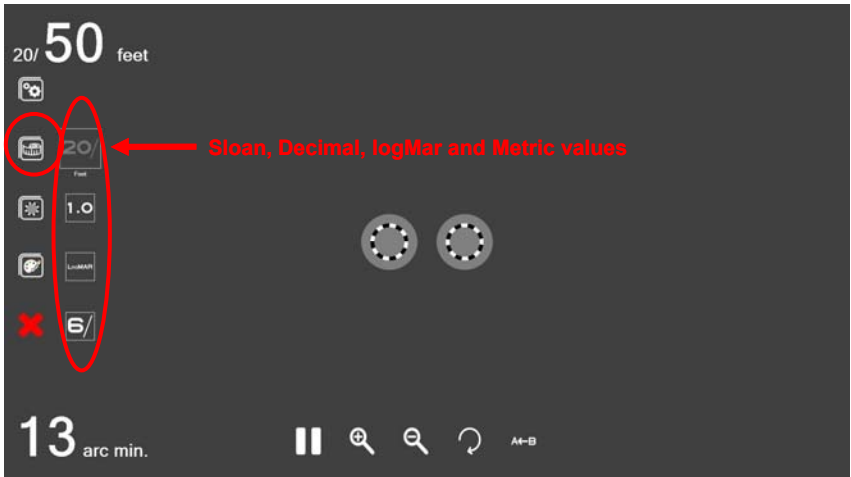
## Dyop® Help Screens

Roll-over Dyop® tools menu shows additional help icons



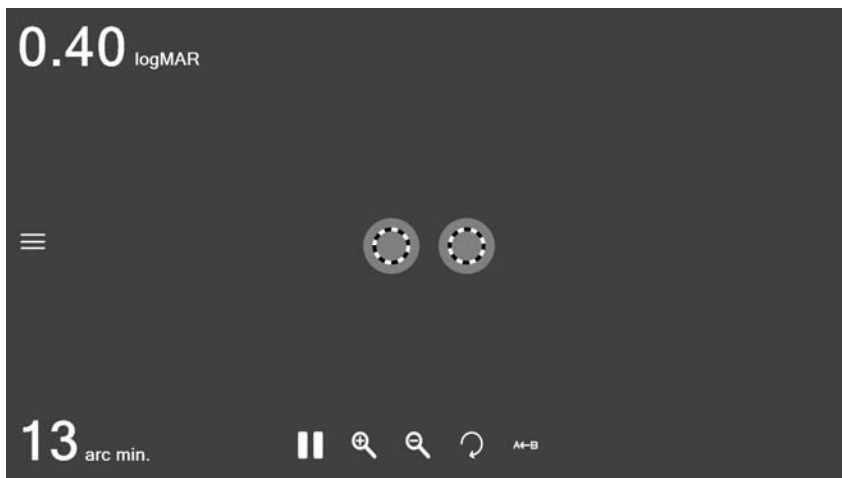
## Feet, Decimal, logMar, Decimal Acuity

Select Display options settings



## Clinical Mode - 0.40 logMar Acuity

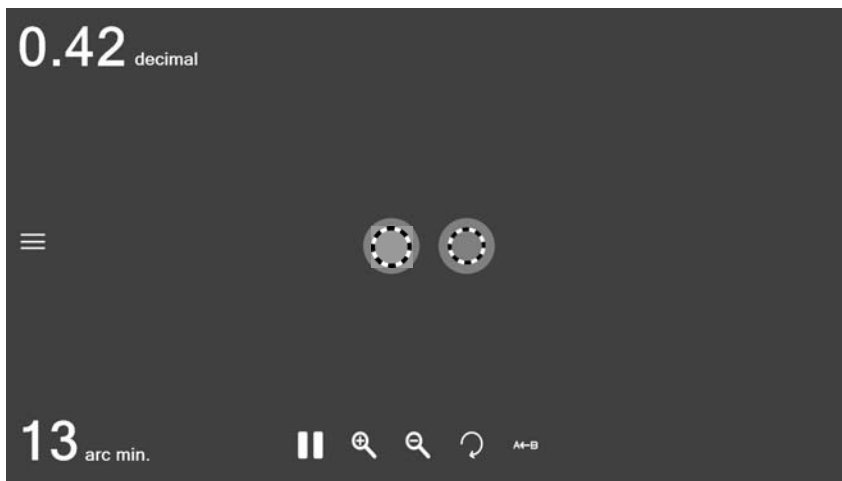
Dyop® Clinical Mode - logMar 0.40



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## Clinical Mode - 0.42 Decimal Acuity

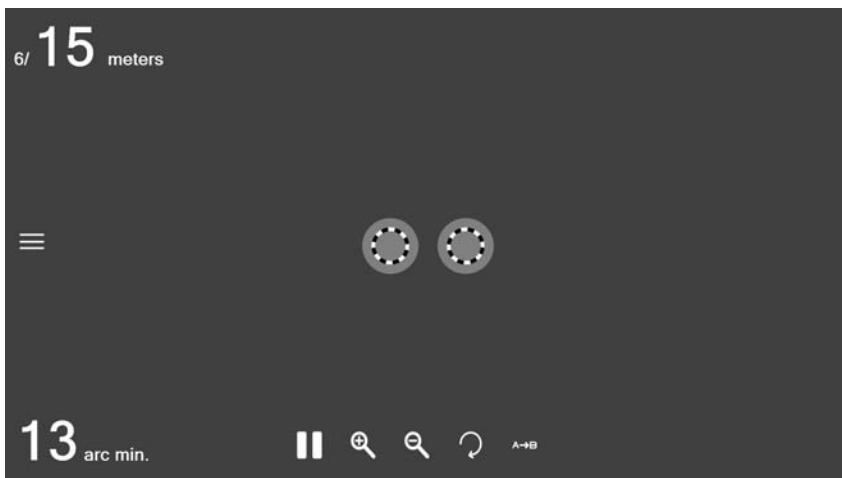
Dyop® Clinical Mode - Decimal 0.42



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## Clinical Mode - 6/15 Metric Acuity

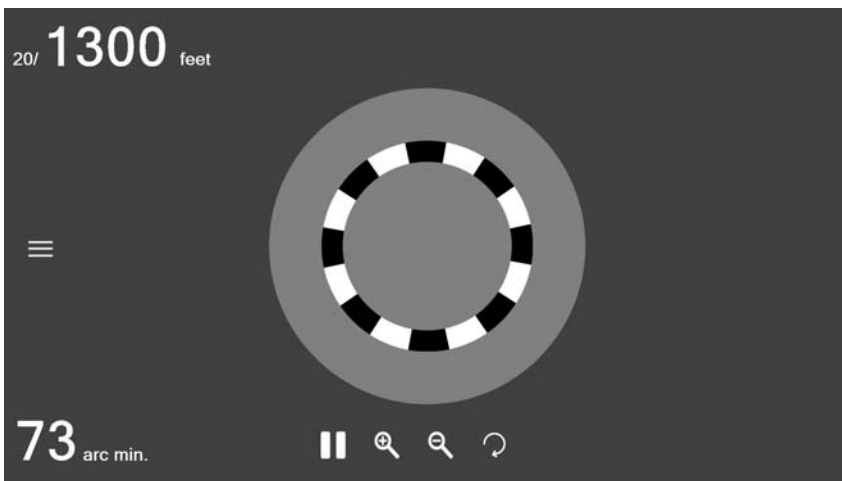
Dyop® Clinical Mode - Metric 6/15



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## Maximum Dyop Arc Width

Dyop® Clinical Mode maximum - Snellen/Sloan 20/1300

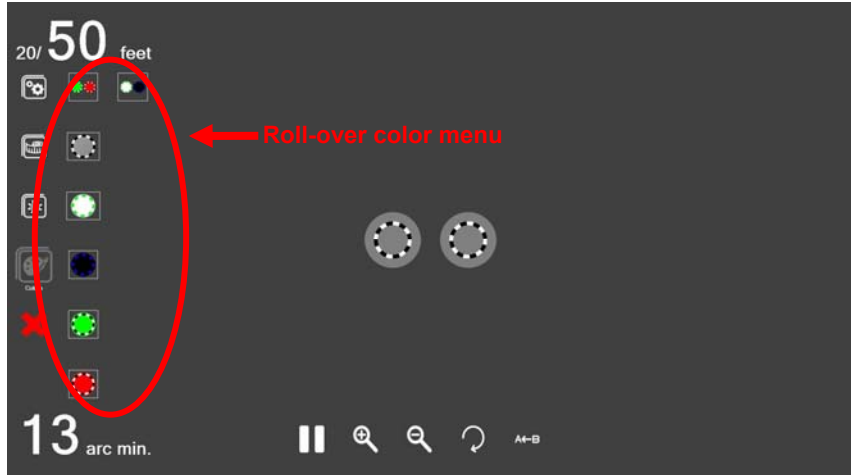


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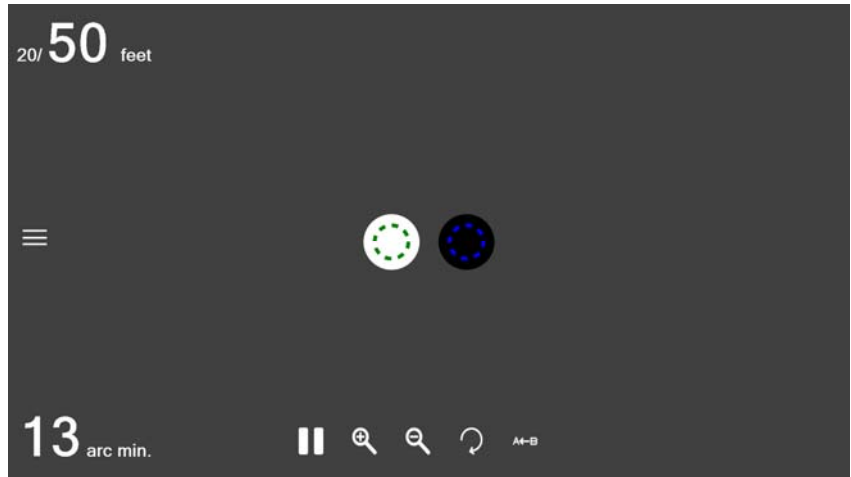
### Color Acuity Options

Dyop® Clinical Mode - Color Options



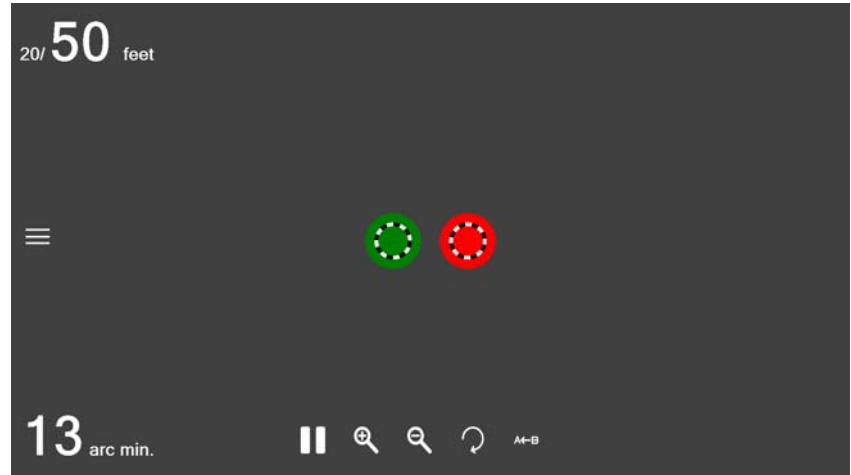
### Blue/Green Color Acuity

Dyop® Clinical Mode - Genetic Color Group Screening



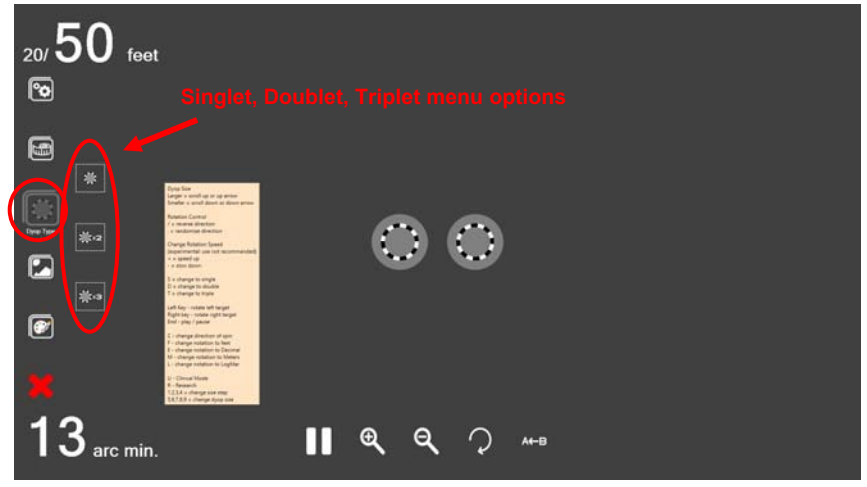
# Red/Green Color Acuity

## Dyop® Clinical Mode - Red/Green Balance



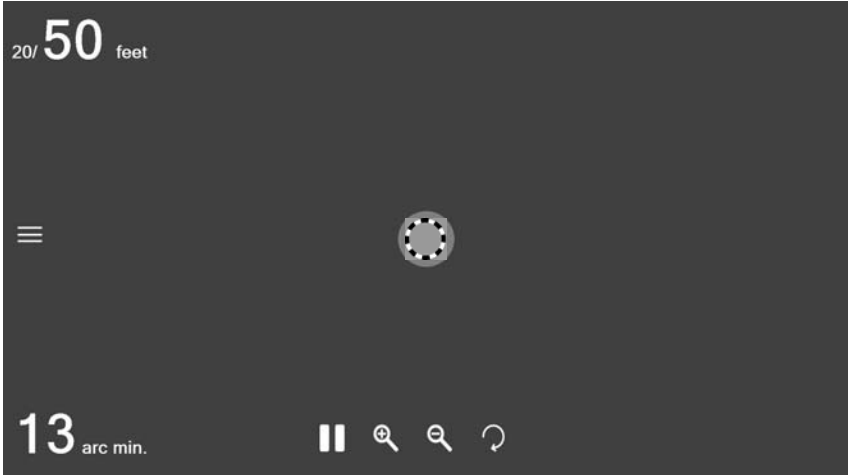
# Single, Double, Triplet Mode

## Dyop® Single, Doublet, or Triplet options



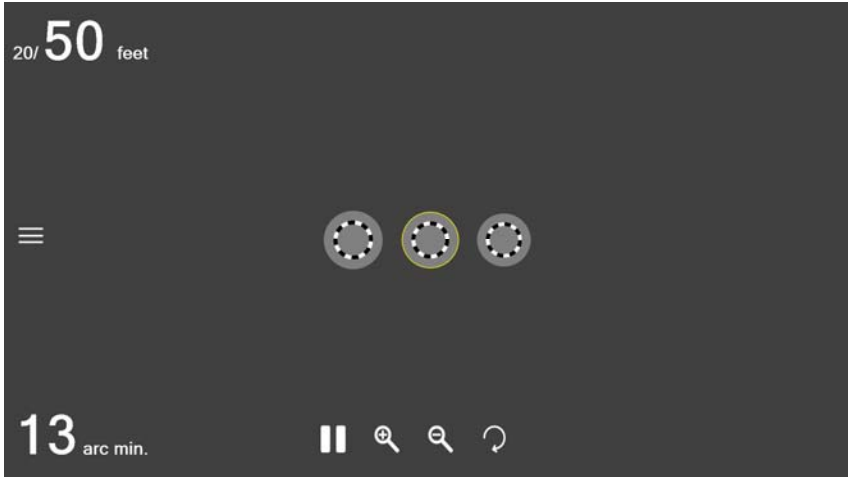
# Single Mode

Dyop® Single option



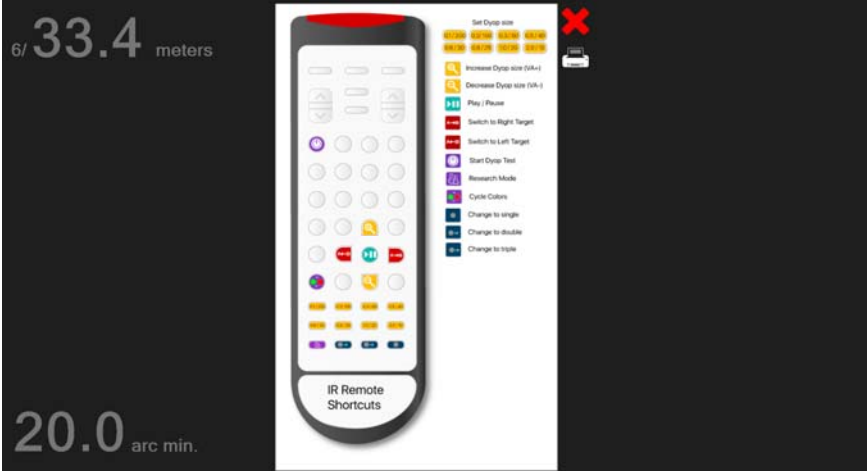
# Triple Mode

Dyop® Triplet option



# Dyop® Remote Help

Dyop® Remote Help - Access via the control menu



# Dyop® Keyboard Help

Dyop® Keyboard Help - Access via the control menu



## Dyop® Mouse Help

Dyop® Mouse Help - Access via the control menu

A screenshot of the Dyop Mouse Help control menu. On the left, a white mouse is shown with red circles highlighting the scroll wheel and two side buttons. To the right, a list of functions is displayed with corresponding icons: a play/pause icon for 'Scroll click Play / Pause', a double right-click icon for 'Double right click Switch rotating target', a right-click icon for 'Right click Switch rotation', a magnifying glass with a plus sign for 'Scroll up Increase Dyop size (VA+)', and a magnifying glass with a minus sign for 'Scroll down Decrease Dyop size (VA-)'. The background is dark with some numerical data like '6/ 33.4' and '20.0' visible on the left side.

## Dyop® Dual Screen Mode

Allows the doctor to run the test without clueing the patient as to the answers.

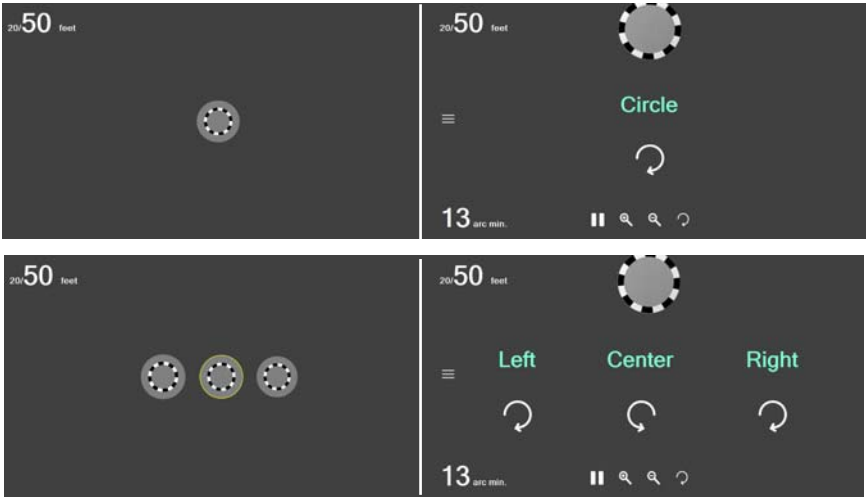
A screenshot showing the 'Dual Screen Mode' interface. It is divided into two columns: 'Patient Screen' and 'Doctor Screen'. The 'Patient Screen' shows two circular targets, one white and one black, on a dark background. The 'Doctor Screen' shows the same targets, but with a red 'Left' label and a green 'Right' label. Below the targets, there are control icons for play/pause, a refresh icon, and a timer showing '13 arc min.'. The top of each screen displays '20/ 50 feet'.

## Dyop® Dual Screen Mode

Allows the doctor to run the test without clueing the patient as to the answers.

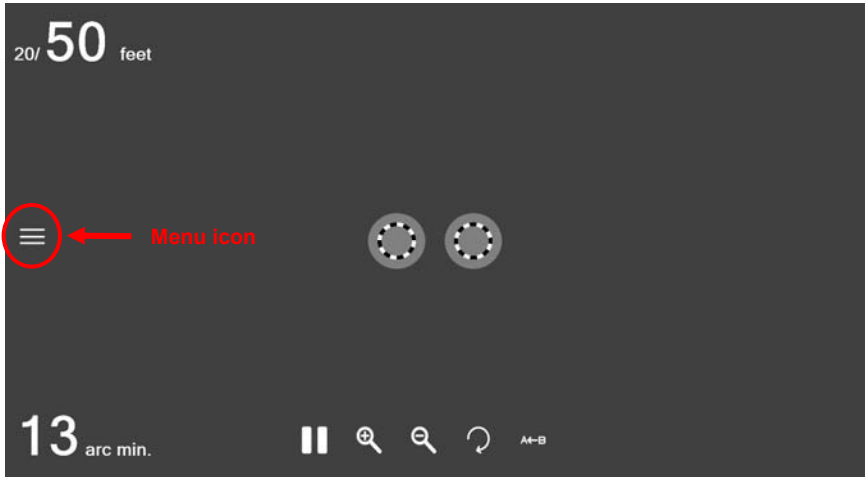
Patient Screen

Doctor Screen



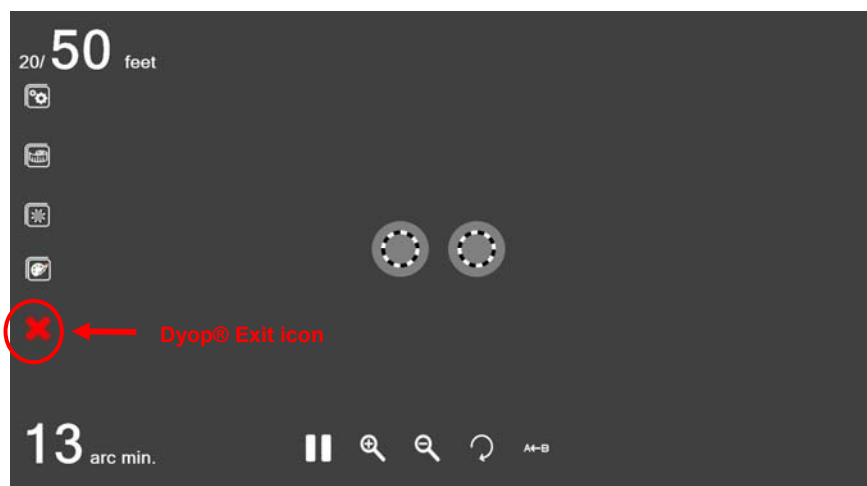
## To Exit - go to the Menu Icon

Roll-over the Dyop® Control Icon to Exit the Dyop® test



### Select the Dyop® Exit Icon

Select the Dyop® X (Exit) Icon to Exit the Dyop® test



### Select the Chart2020 Exit Icon

Select the Chart2020 X (Exit) Icon to Exit the Chart2020 test

