



Dyop® / ViewChroma™ Color Matrix Response Form

Name: Sarah Hytowitz Test date: 2013-12-30

Version 2015-03-01

Foreground	Black/White-Gray	Red	Green	Blue	Color/Red	Color/Green	Color/Blue
White/Color Background							
Gray/Color Background							
Black/Color Background							
Foreground	Black/White-Gray	Red	Green	Blue	Color/Red	Color/Green	Color/Blue

This prototype test is calibrated primarily for use on a 15 inch diagonal monitor at a 20 foot viewing distance.

The Dyop® acuity endpoint (Index Number) for each color/contrast image is the smallest image detected rotating. At a 10 foot viewing distance, the Index Number values are twice of those at a 20 foot viewing distance (i.e., a Dyop® Index Number of 15 at a 10 foot viewing distance is the same as a Dyop® Index Number of 30 when the image is viewed at 20 feet). The Index Number values on a 22 inch monitor are 40% larger than the Index Numbers on a 15 inch monitor (i.e., a Dyop® Index Number of 28 viewed on a 22 inch monitor would be a Dyop® Index Number of 20 if viewed on a 15 inch monitor).

Untinted Lenses versus / ViewChroma™ tinted Lenses

Benchmark = Black/White on Gray background

Key = **Blue**=un-tinted advantage / **Red**=ViewChroma™ advantage

Color	<u>Gray</u> White	<u>Red</u> White	<u>Green</u> White	<u>Blue</u> White	<u>Gray</u> Red	<u>Red</u> Green	<u>Red</u> Blue
Dyop® Index Number	22/20 -2	30/25 -5	40/28 -12	28/24 -4	32/28 -4	32/30 -2	32/30 -2
Color	<u>Black/White</u> Gray	<u>Red</u> Gray	<u>Green</u> Gray	<u>Blue</u> Gray	<u>Green</u> Red	<u>Gray</u> Green	<u>Green</u> Blue
Dyop® Index Number	22/20 -2	40/36 -4	34/30 -4	45/34 -9	30/25 -5	30/25 -5	27/33 +6
Color	<u>Gray</u> Black	<u>Red</u> Black	<u>Green</u> Black	<u>Blue</u> Black	<u>Blue</u> Red	<u>Blue</u> Green	<u>Gray</u> Blue
Dyop® Index Number	25/24 -1	24/23 -1	22/21 -1	21/24 +3	34/40 +6	32/32 0	38/30 -8