



# Magnifiers

Guide for the Onyx, Sapphire & Chrome



## The “Diopter Test”

### Choosing the Right Magnifier Strength

Magnification can optimize your vision and help you operate faster and more effectively. Figuring out the optimal strength (diopter) of the magnifier you need can be difficult without some guidance, especially if you have never needed glasses or magnifiers.

**A good way to decide the strength of magnification is to use the “Diopter Test:”**

1. Print out this sheet OR view it in actual size (In Acrobat, View > Zoom > Actual Size).
2. Position your face/eyes 14” away from the chart.
3. Read the typed sentence starting from the top and working your way toward the bottom.
4. Stop at the sentence the looks the clearest to you. The recommended strength (diopter) is listed to the right.

If you can see me clearly, this strength is suggested	<b>+2.00</b>
If you can see me clearly, this strength is suggested	<b>+2.50</b>
If you can see me clearly, this strength is suggested	<b>+3.00</b>
If you can see me clearly, this strength is suggested	<b>+3.50</b>
If you can see me clearly, this strength is suggested	<b>+4.00</b>



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## Magnifier Technical Specifications

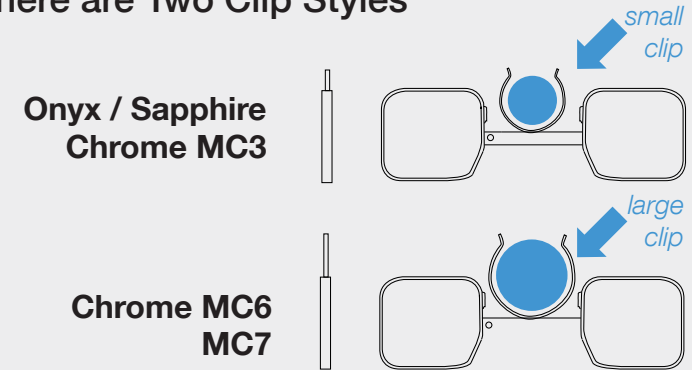
### Choosing the Right Magnifier Strength

This table will help you understand the characteristics of each lens and what you will actually see. It explains the relationship between the Diopter, how it relates to magnification level, working distance and total optical power of the lens.

**Diopter (D):** Describes the refractive (light bending) capability of a lens, it is proportional to the curvature of the lens. The working distance (focal length) and diopter values of a lens are directly related. Each half-diopter increases the size of the viewed object by 1/10 (10%). The working distances below are recommended but actual working distances may slightly vary.

## Which Headlight Do You Have?

There are Two Clip Styles



**Onyx / Sapphire  
Chrome MC3**

**Chrome MC6  
MC7**

Diopter	Magnification	% Increase in Eyesight	Optical Power	Recommended Working Distance (Focal Length)	Onyx® / Sapphire® / MC3 'Small Clip' Magnifier Mfr. P/N	Chrome® MC6 / MC7 'Large Clip' Magnifier Mfr. P/N
<b>+2.00 (2D)</b>	+0.40	40%	1.4 X	250 mm	M-90301	M-90321
<b>+2.50 (2.5D)</b>	+0.50	50%	1.5 X	235 mm	M-90302	M-90322
<b>+3.00 (3D)</b>	+0.60	60%	1.6 X	220 mm	M-90303	M-90323
<b>+3.50 (3.5D)</b>	+0.70	70%	1.7 X	210 mm	M-90304	M-90324
<b>+4.00 (4D)</b>	+0.80	80%	1.8 X	200 mm	M-90305	M-90325
<b>+4.50 (4.5D)</b>	+0.90	90%	1.9 X	195 mm	M-90306	M-90326