

HIGH MAGNIFICATION VISIBLE LENSES

Middleton Research offers a selection of high magnification lenses for the visible and VNIR wavelength regions. They offer high magnification with fixed long working distances (92mm are shown) while maintaining high resolution and less than 0.14% distortion. The lenses described here in detail have one select working distance; other options are available for shorter or longer working distances as well as different magnifications. Please contact Middleton Research to discuss the lens options for your particular application.



Hyperspectral image of currency



High magnification precise eye lens

Optical Characteristics	OLMAG10X05X	OLMAG10X10X	OLMAG10X20X
Magnification	0.9 X	1.8 X	3.6 X
F-number	4.5	4.5	4.5
Transmission	> 70%	> 70%	> 70%
Nominal Working Distance	92 mm	92 mm	92 mm

Mechanical Characteristics

Dimensions	Ø 28.6 x 107 mm	Ø 28.6 x 107 mm	Ø 28.6 x 107 mm
Body Material	Anodized Al	Anodized Al	Anodized Al
Mount	Anodized Al	Anodized Al	Anodized Al

Length of Imaged Line at Nominal WD

WD = 92 mm	9.8 mm	4.9 mm	2.4 mm
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High Magnification Visible Lenses Ordering Information		
Part Number	Description	Product Name
MRC-211-001-08	High Magnification Precise Eye Visible Lens, C-Mount, 0.9X Magnification, 92 mm nominal WD	OLMAG10X05X
MRC-211-001-09	High Magnification Precise Eye Visible Lens, C-Mount, 1.8X Magnification, 92 mm nominal WD	OLMAG10X10X
MRC-211-001-10	High Magnification Precise Eye Visible Lens, C-Mount, 3.6X Magnification, 92 mm nominal WD	OLMAG10X20X