



Division of Thorlabs Inc.

 Search

Home

Contact

Optics

Fiber

Isolators

Objectives

Index

Catalog

Microscope Objectives

OFR stocks this fine line of exceptionally high quality Microscope Objective Lens assemblies, which are ideally suited for focusing laser beams to spot sizes not otherwise achievable with standard optics, as well as for their original use in magnification systems. Our Microscope Objective Lenses are contained in very fine, brushed chrome-plated brass barrels with the industry standard RMS (Royal Microscopy Society) Whitworth screw thread. We also provide our LMO-51 Mounting Plate with this unique thread. These are for use with low-power, visible to near-IR sources. For UV excimer and high power YAG laser applications, please see MicroSpot FOCUSING OBJECTIVES.



Apodizers

Beam Expander

Beamsplitter

Birefringent Filters

Coating Info

Depolarizer

Etalons

Lens Design Notes

Lenses

[UV Lenses](#)[VIS Lenses](#)[YAG Lenses](#)[Doublets](#)[Cylindrical Lenses](#)[Micro Objectives](#)

Mirrors

ND Filters

Polarizers

Prisms

Retarders

Windows

Catalog Number	Description	Size
LMO-51	Mounting Plate	2" Dia x 1/2"

Catalog Number	Approx. Mag.	Effective Limiting Resolution	Focal Length	Working Distance	NA	Angular Aperture
LMO-2X	2X	7 μ m	47 mm	48/49 mm	0.07	8°
LMO-5X	5X	4 μ m	30 mm	18/20 mm	0.12	14°
LMO-10X	10X	2 μ m	16 mm	5/6 mm	0.3	35°
LMO-20X	20X	1 μ m	9 mm	1.6/1.8 mm	0.45	53°
LMO-40X	40X	0.8 μ m	5 mm	0.6/0.8 mm	0.65	81°
LMO-60X	60X	0.2 μ m	3 mm	0.25/0.35 mm	0.85	116°

Fiber-Optic Coupling Lenses

Mounted LLO series lenses are A/R coated and mounted in a microscope objective cell with industry standard RMS thread. Other mounting options available. Please inquire.

Unmounted LL series lenses, same lenses as above ,but unmounted.



Mounted Double Aspheric Lenses

Catalog Number	Focal Length	Working Distance	NA	Maximum Beam Dia.	Mag.
LLO-4-18-λ*	18.4 mm	17.0 mm	0.13	4.4 mm	10X
LLO-6-11-λ	11.0 mm	9.1 mm	0.30	6.5 mm	16X
LLO-8-8-λ*	8.0 mm	5.5 mm	0.50	8.0 mm	20X
LLO-4-7-λ	7.5 mm	5.5 mm	0.30	4.5 mm	24X
LLO-4-4-λ	4.6 mm	2.4 mm	0.53	4.8 mm	40X
LLO-2-2-λ*	2.0 mm	0.9 mm	0.50	2.0 mm	60X

*Not available for HoYAG. NOTE: When ordering, specify wavelength, for example, LLO-4-4-NIR.

Unmounted Double Aspheric Lenses

Catalog Number	Focal Length	Back Focal Length	Center Thickness	NA	Diameter
LL-3-2*-λ	2.0 mm	0.9 mm	2.0 mm	0.50	3.0 mm
LL-5-7-λ	7.5 mm	5.8 mm	2.7 mm	0.30	5.5 mm
LL-6-11-λ	11.0 mm	9.6 mm	2.2 mm	0.30	6.0 mm
LL-6-5-λ	4.6 mm	2.9 mm	3.1 mm	0.53	6.0 mm

*Not available for HoYAG. NOTE: When ordering, specify wavelength, for example, LL-3-2-IR.

Max T Spectrum

380 - 640 nm
600 - 990 nm
970 - 1100 nm
1250 - 1600 nm
1.9 - 2.15 μm

*LL-3-2, LLO-2-2 and LLO-8-8 not available for HoYAG

Order as

-VIS
-NIR
-YAG
-IR
-HoYAG*

[Optics for Research](http://www.opticsforresearch.com) · Ph 973-579-7227 · Fax 973-300-3600 · Email: info@ofr.com

THORLABS