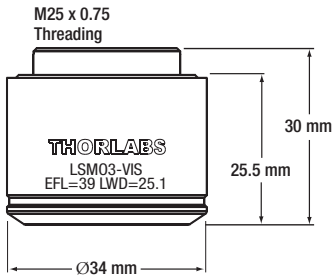
Scan Lens for Visible Imaging Systems

NEW product

The LSM03-VIS scan lens has an AR coating designed for visible imaging centered around 633 nm. The lens has less than 0.25% reflectivity across a 130 nm bandwidth and a magnification of 4.6X. The M25 x 0.75 threading can be adapted to Thorlabs' standard SM1 (1.035"-40) threading by using an SM1A12 adapter (see page 344).

LSM03-VIS



Scanning Distance (SD): The SD is the distance between the galvo mirror pivot point and the back mounting plate of the objective. The galvo mirror pivot point must be located at the back focal plane of the objective to maximize image resolution.

Pupil Size (EP): The size of the EP determines the ideal $1/e^2$ collimated beam diameter to maximize the resolution of the imaging system.

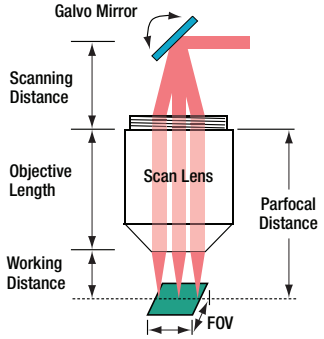
Working Distance (WD or LWD): The distance between the tip of the scan lens housing and the front focal plane of the scan lens is defined as the WD.

Depth of View (DOV): The DOV corresponds to the distance between the front focal plane and a parallel plane where the beam spot size has increased by a factor of √2.

Field of View (FOV): The FOV is the maximum scan area on the sample that can be imaged with a resolution equal to or better than the stated resolution of the LSM scan lenses.

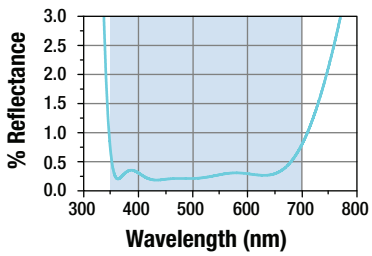
Parfocal Distance (PD): The PD is the distance from the scan lens mounting plane to the front focal plane of the LSM scan lenses.

Scan Angle (SA): The SA is the maximum allowed angle between the beam and the optical axis of an LSM scan lenses after being reflected off of the galvo mirror.



SPECIFICATIONS	
Magnification	4.6X
Design Wavelength	633 nm
Wavelength Range	400 – 700 nm
Effective Focal Length (EFL)	39 mm
Lens Working Distance (LWD)	25.1 mm
Scanning Distance (SD) (Distance from Pupil Position to Mounting Plane)	29.0 mm
Pupil Size ($1/e^2$) (EP)	4.0 mm
Depth of View (DOV)	0.58 mm
Field of View (FOV)	10.3 mm x 10.3 mm
Parfocal Distance (PD)	50.7 mm
Mean Spot Size (S) ($1/e^2$ Beam Diameter in the Field of Focus)	9.9 µm
Scan Angle (SA)	±7.5°

LSM03DC-VIS AR Coating



ITEM #	$	£	€	RMB	DESCRIPTION
LSM03-VIS	$ 930.00	£ 669.60	€ 809,10	¥ 7,412.10	4.6X Visible Scan Lens, EFL=39 mm, Design Wavelength= 633 nm

Dispersion Compensators for LSM Scan Lenses

NEW product

Features
- Dispersion Compensation up to Second Order
- AR Coated for 400 – 700 nm

LSM03DC-VIS

Thorlabs LSM03DC-VIS dispersion compensator is a single glass compensation block whose glass type and thickness were chosen to match the dispersion of the LSM03-VIS scan lens.

SPECIFICATIONS	
Material	H-ZLAF52
Wavelength Range	400 – 700 nm
Diameter	1" (25.4 mm)
Clear Aperture	22.8 mm
Surface Quality	40-20 Scratch-Dig
Wavefront Error	λ/4
Diameter Tolerance	+0/-0.2 mm

ITEM #	$	£	€	RMB	DESCRIPTION
LSM03DC-VIS	$ 98.00	£ 70.56	€ 85,26	¥ 781.06	Dispersion Compensating Mirror for LSM03-VIS Scan Lens

Have you seen our...
Additional Scan Lenses for OCT Systems

See page 1782