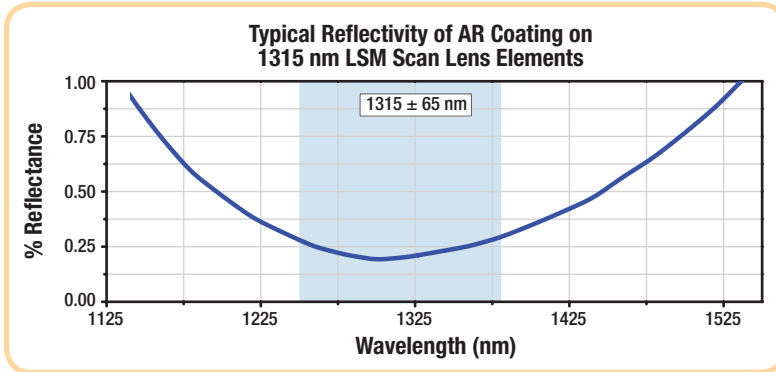


Scan Lenses for OCT Imaging Systems (Page 2 of 2)

1315 nm Scan Lenses



Additional specifications for our scan lenses are available on our website. The data includes specifications on the chromatic performance of the lens as well as plots that show spot size as a function of scan angle.

| ITEM # | LSM02 | LSM03 | LSM04 | LSM05 |
|---|-----------------|-----------------|-------------------|-------------------|
| Magnification | 10X | 5X | 3X | 1.6X |
| Design Wavelength | 1315 nm | | | |
| Wavelength Range | ±65 nm | | | |
| Effective Focal Length (EFL) | 18.02 mm | 35.98 mm | 53.99 mm | 110 mm |
| Lens Working Distance (LWD) | 7.5 mm | 25.1 mm | 42.3 mm | 93.7 mm |
| Scanning Distance (SD) (Distance from Pupil Position to Mounting Plane) | 16.1 mm | 18.9 mm | | 75.5 mm |
| Pupil Size ($1/e^2$) (EP) | 4 mm | | | 8 mm |
| Depth of View (DOV) | 0.12 mm | 0.58 mm | 1.15 mm | 1.2 mm |
| Field of View (FOV) | 4.7 mm x 4.7 mm | 9.4 mm x 9.4 mm | 14.1 mm x 14.1 mm | 28.9 mm x 28.9 mm |
| Parfocal Distance (PD) | 30.7 mm | 50.6 mm | 80.8 mm | 154.8 mm |
| Mean Spot Size (S) ($1/e^2$ Beam Diameter in the Field of Focus) | 13 μ m | 25 μ m | 35 μ m | 19 μ m |
| Scan Angle (SA) | ±7.5° | | | |

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.

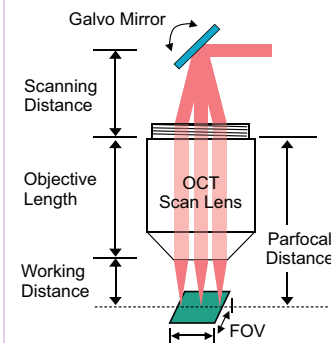
Working Distance (WD or LWD): The distance between the tip of the scan lens housing and the front focal plane of the scan lens is defined as the WD.

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 $\sqrt{2}$.

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.



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Dispersion
Compensators



LSM03DC
See next
page

850/1050 nm Scan Lenses

| ITEM # | \$ | £ | € | RMB | DESCRIPTION |
|----------|-------------|------------|------------|-------------|---|
| LSM02-BB | \$ 1,540.00 | £ 1,108.80 | € 1,339.80 | ¥ 12,273.80 | 10X OCT Scan Lens, EFL = 18 mm, AR Coating: 800 – 1100 nm |
| LSM03-BB | \$ 970.00 | £ 698.40 | € 843.90 | ¥ 7,730.90 | 5X OCT Scan Lens, EFL = 36 mm, AR Coating: 800 – 1100 nm |
| LSM04-BB | \$ 960.00 | £ 691.20 | € 835.20 | ¥ 7,651.20 | 3X OCT Scan Lens, EFL = 54 mm, AR Coating: 800 – 1100 nm |
| LSM05-BB | \$ 960.00 | £ 691.20 | € 835.20 | ¥ 7,651.20 | 1.6X OCT Scan Lens, EFL = 110 mm, AR Coating: 800 – 1100 nm |

1315 nm Scan Lenses

| ITEM # | \$ | £ | € | RMB | DESCRIPTION |
|--------|-------------|------------|------------|-------------|--|
| LSM02 | \$ 1,500.00 | £ 1,080.00 | € 1,305.00 | ¥ 11,955.00 | 10X OCT Scan Lens, EFL = 18 mm, Design Wavelength = 1315 ± 65 nm |
| LSM03 | \$ 930.00 | £ 669.60 | € 809.10 | ¥ 7,412.10 | 5X OCT Scan Lens, EFL = 36 mm, Design Wavelength = 1315 ± 65 nm |
| LSM04 | \$ 920.00 | £ 662.40 | € 800.40 | ¥ 7,332.40 | 3X OCT Scan Lens, EFL = 54 mm, Design Wavelength = 1315 ± 65 nm |
| LSM05 | \$ 920.00 | £ 662.40 | € 800.40 | ¥ 7,332.40 | 1.6X OCT Scan Lens, EFL = 110 mm, Design Wavelength = 1315 ± 65 nm |