

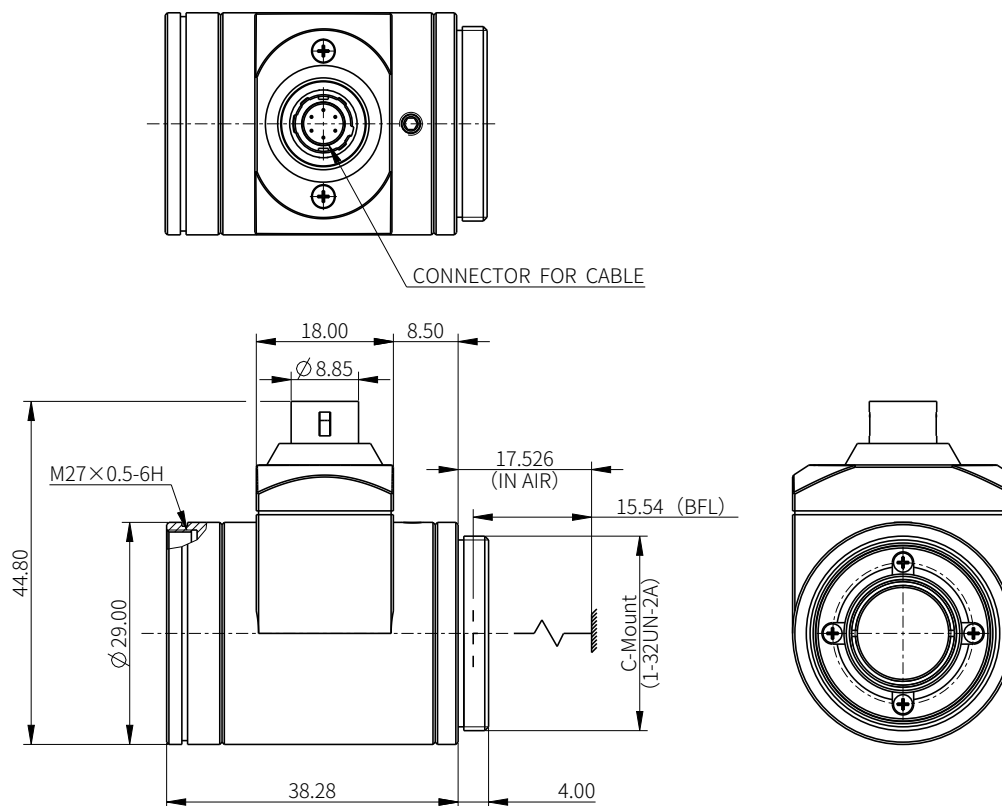
Cobra Series Liquid Lenses

#OPT-COB3564-LQL E.F.L.= 35 mm F6.4

● Specifications

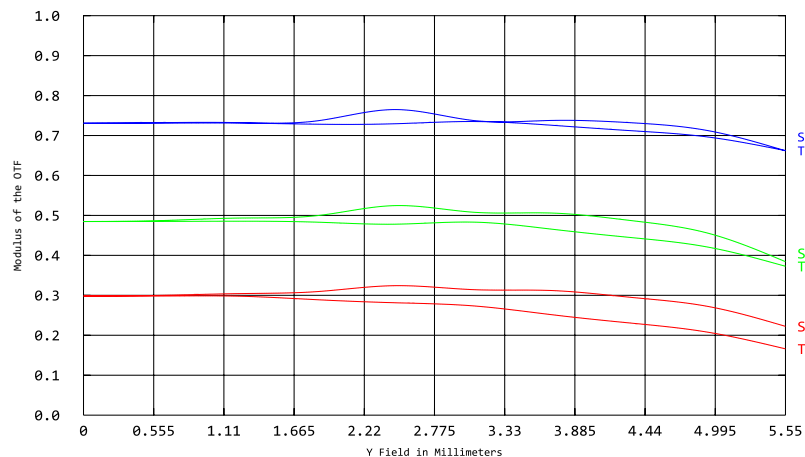
Effective Focal Length (mm)		35
Sensor ø(mm)		11 (2/3")
F NO.		F6.4
FOV Angle	Diagonal (11 mm)	17.86°
	Horizontal (8.8 mm)	14.33°
	Vertical (6.6 mm)	10.77°
Wavelength Range (nm)		435~656
Relative Illumination		>75%
Working Distance (mm)		150~∞
Working Distance without current (mm)		450
Distortion (at WD 450)		<0.4%
Max. Chief Ray Angle		<5°
Flange Focal Distance (mm)		17.526
Back Focal Length (mm)		15.54
Mount		C-Mount
Connector Type		6-pin Hirose connector
Size (mm)		L38.28×W29.00×H44.80
Total Track Length (Liquid Lens included) (mm)		55.806
Focus Tunable Lens Specifications		EL-3-10-VIS-26D-FPC
Focal Power Range at 20°C (dpt)		-13~+13
Wavefront Error at 525 nm (vertical/horizontal) (λRMS)		<0.2 / <0.2
Working Temperature		-20°C~+65°C
Storage Temperature		-50°C~+85°C
Temperature Compensation		No

● Mechanical drawings



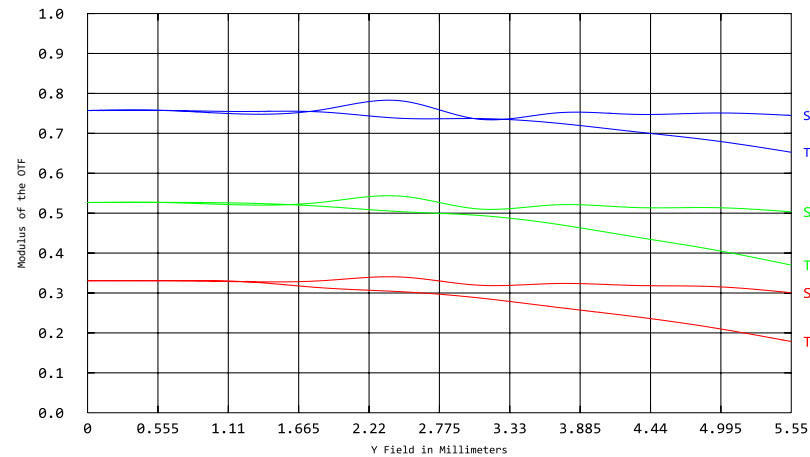
● Modulation Transfer Function(MTF)

W.D. = 250 mm



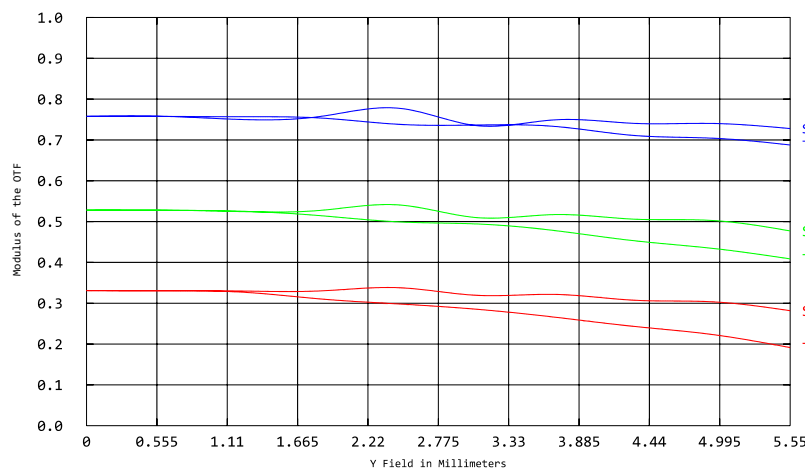
☒ S1 — Sagittal: 50 lp/mm ☒ S2 — Sagittal: 100 lp/mm ☒ S3 — Sagittal: 150 lp/mm
☒ T1 — Tangential: 50 lp/mm ☒ T2 — Tangential: 100 lp/mm ☒ T3 — Tangential: 150 lp/mm

W.D. = 450 mm



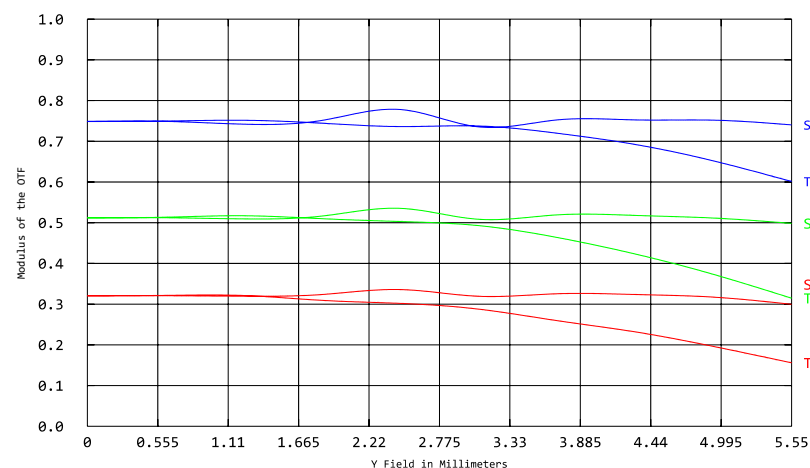
☒ S1 — Sagittal: 50 lp/mm ☒ S2 — Sagittal: 100 lp/mm ☒ S3 — Sagittal: 150 lp/mm
☒ T1 — Tangential: 50 lp/mm ☒ T2 — Tangential: 100 lp/mm ☒ T3 — Tangential: 150 lp/mm

W.D. = 350 mm



☒ S1 — Sagittal: 50 lp/mm ☒ S2 — Sagittal: 100 lp/mm ☒ S3 — Sagittal: 150 lp/mm
☒ T1 — Tangential: 50 lp/mm ☒ T2 — Tangential: 100 lp/mm ☒ T3 — Tangential: 150 lp/mm

W.D. = 600 mm



☒ S1 — Sagittal: 50 lp/mm ☒ S2 — Sagittal: 100 lp/mm ☒ S3 — Sagittal: 150 lp/mm
☒ T1 — Tangential: 50 lp/mm ☒ T2 — Tangential: 100 lp/mm ☒ T3 — Tangential: 150 lp/mm