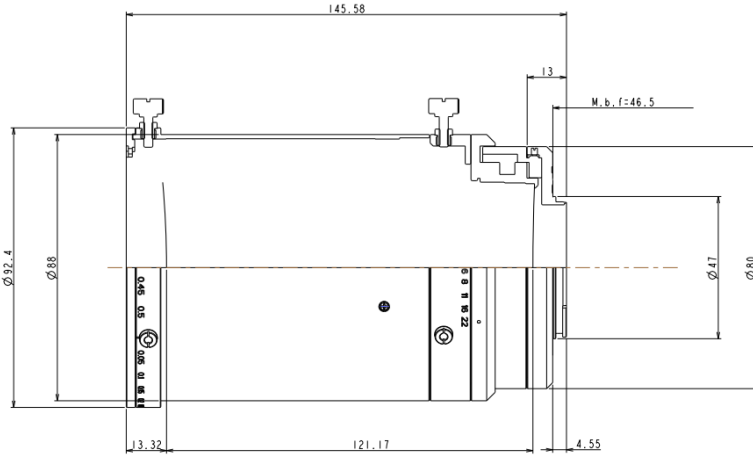


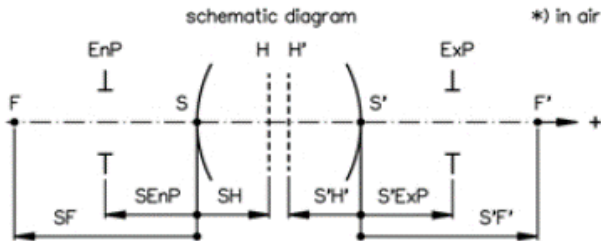
SMV-90M82 (90mm F3.5)

► Lens Dimension



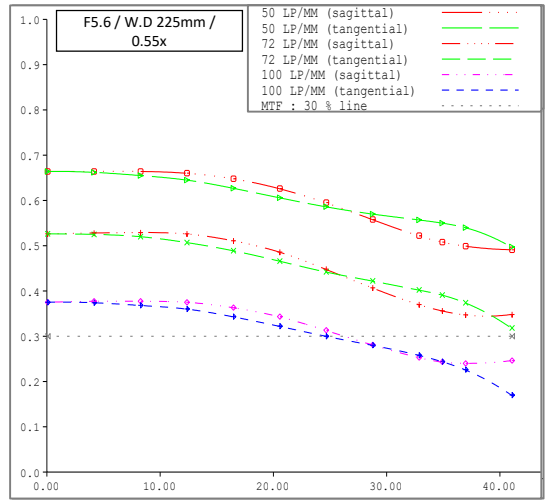
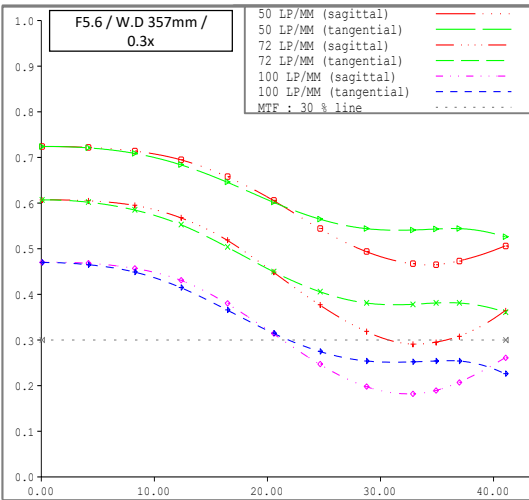
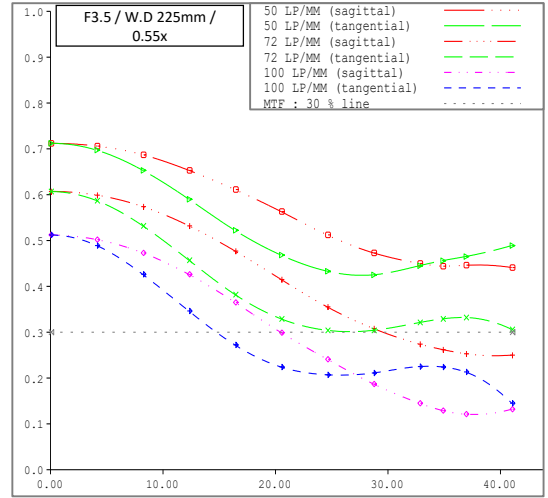
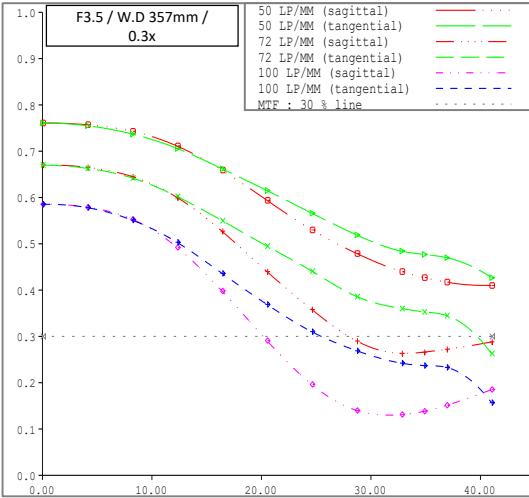
► Technical Specification

Focal Length (mm)	90	Aperture	F3.5 ~ F22
Working Distance (Min. ~ Max / mm)	225 ~ ∞	Flange back (mm)	46.5(F), 19.56/13.14/12/ 10.1/6.56(M72) 9.4(M95)
Image Circle (mm)	82	Magnification	W.D (mm)
Magnification Max.	0.55x	0.05x	1853
Filter Size (Φ)	70	0.3x	557
Diameter Max (Φ)	92.4	0.55x	225

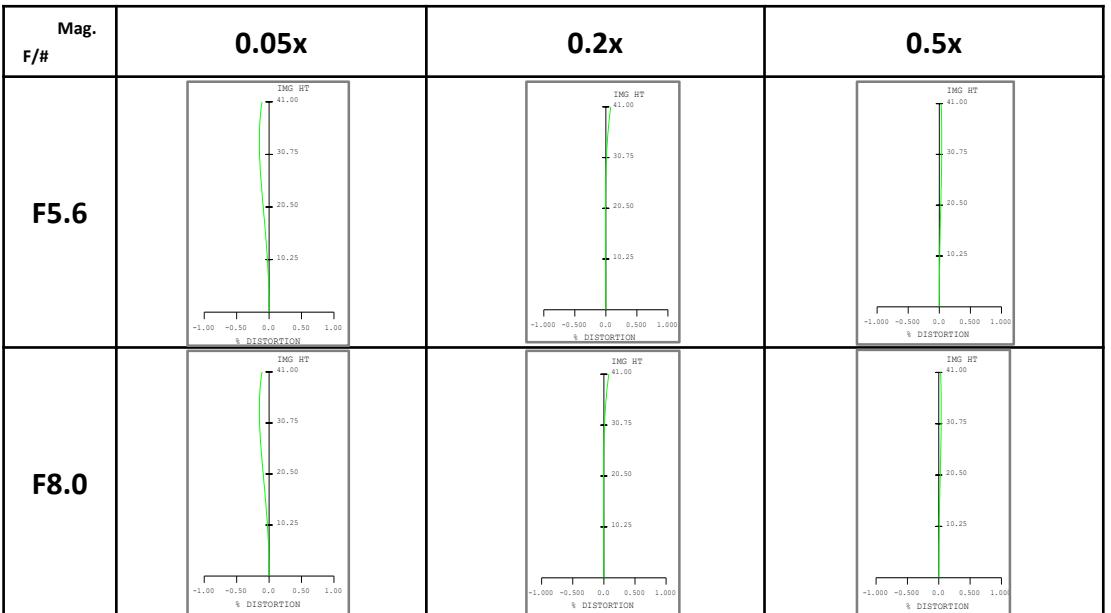


SF (mm)	-57.0	F-stop	∅EnP	∅ExP
S'F' (mm)	53.1	5.6	16.1	14.8
HH' (mm)	51.2	8	11.3	10.3
SH (mm)	33.0	11	8.2	7.5
S'H' (mm)	-36.9	16	5.6	5.2
SEnP (mm)	37.8	22	4.1	3.8
S'ExP (mm)	-29.4			

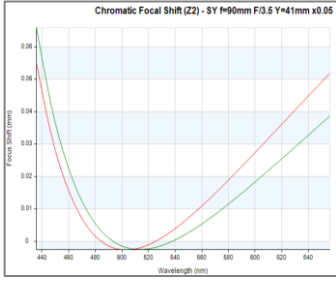
▶ MTF Charts



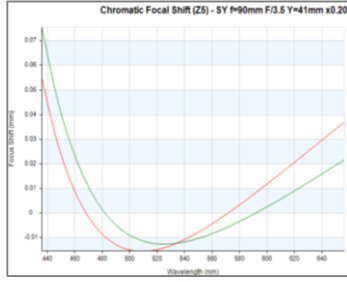
▶ Distortion



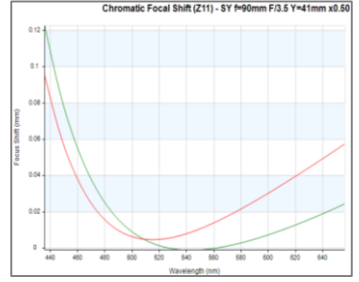
► Color Shift (Chromatic focal Shift)



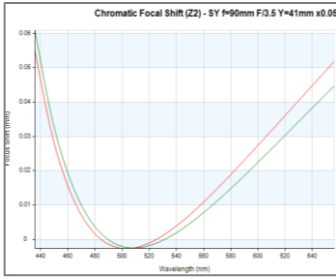
[F5.6 / 0.05X]



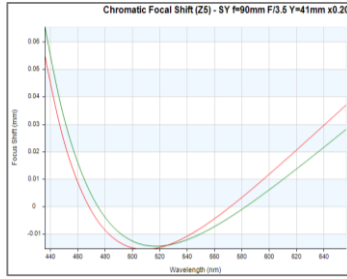
[F5.6 / 0.2X]



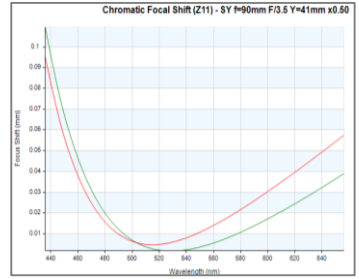
[F5.6 / 0.5X]



[F8.0 / 0.05X]

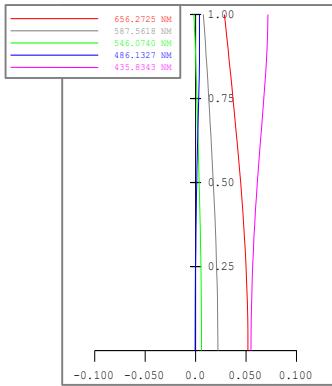


[F8.0 / 0.2X]

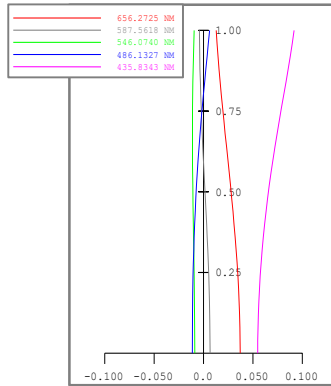


[F8.0 / 0.5X]

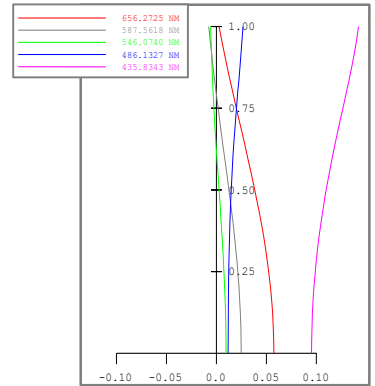
► Color Shift (Longitudinal Aberration)



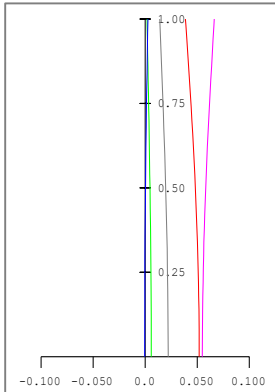
[F5.6 / 0.05X]



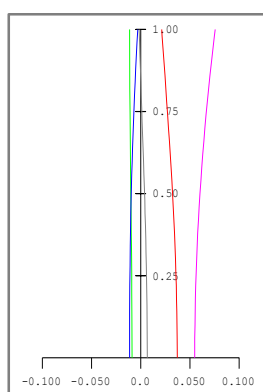
[F5.6 / 0.2X]



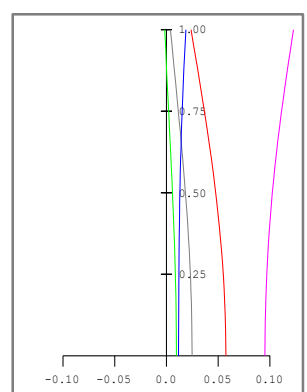
[F5.6 / 0.5X]



[F8.0 / 0.05X]

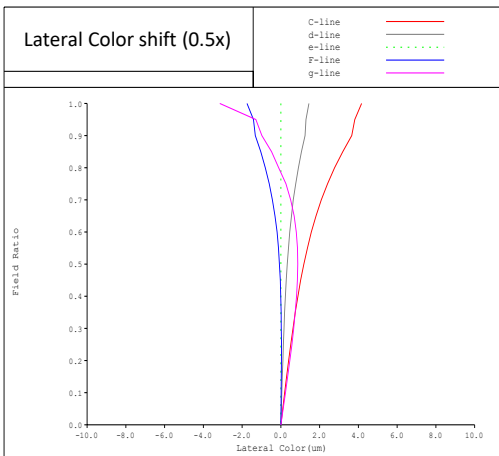
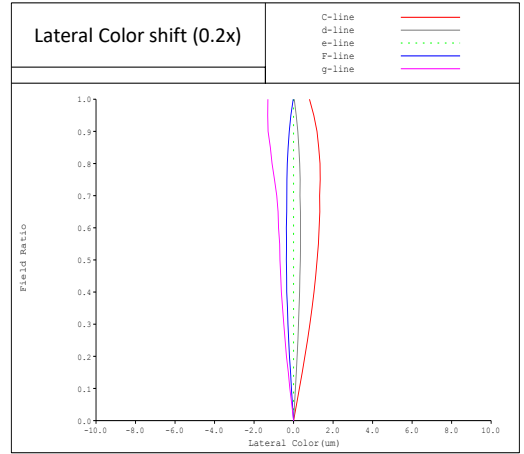
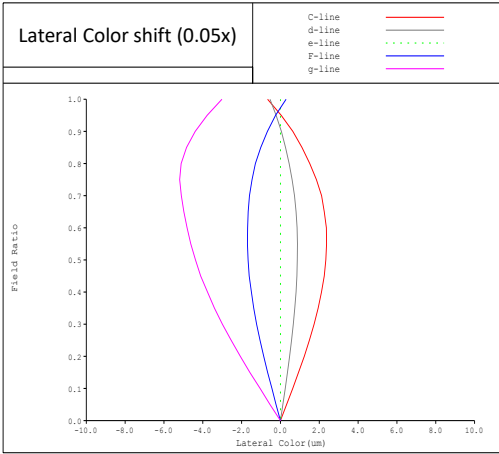


[F8.0 / 0.2X]



[F8.0 / 0.5X]

► Color Shift (Chromatic focal Shift)



► Transmittance

