

High Resolution Plan Apochromat Infinity Corrected Objective Lenses

Ideal for industrial imaging applications

Navitar HR plan apochromatic objectives offer high NA, large FOV, and working distances ranging from 10-39mm.

The objective series includes 1X, 2X, 4X, 6X, 10X, and 20X resolutions.

- Designed with a parfocal distance of 95mm to be compatible with turret applications
- Apochromatic over 436-656 nm, providing excellent correction of spherical and chromatic aberrations.



Specifications

	High NA / Long W. D.		High NA / Large FOV			
	1X	2X	4X HR	6X HR	10X HR	20X HR
Part Numbers	1-55282	1-55273	1-55341	TBD	1-55227	TBD
Numerical Aperture	0.04	0.08	0.2	0.3	0.4	0.53
Working Distance (mm)	15	39	20	25	10	10
Focal Length (mm)	200	100	50	33.3	20	10
Resolving Power	8.3 μm	4.2 μm	1.7 μm	1.1 μm	0.8 μm	0.63 μm
Depth of Field	$\pm 160 \mu\text{m}$ (320 μm Range)	$\pm 40 \mu\text{m}$ (80 μm Range)	$\pm 6.8 \mu\text{m}$ (13.6 μm Range)	$\pm 3.05 \mu\text{m}$ (6.1 μm Range)	$\pm 1.6 \mu\text{m}$ (3.2 μm Range)	$\pm 1 \mu\text{m}$ (2.0 μm Range)
Field Number	22	22	22	22	22	22
Compatible Tube Lens	EFL=200mm	EFL=200mm	EFL=200mm	EFL=200mm	EFL=200mm	EFL=200mm
Parfocal Length (mm)	95	95	95	95	95	95
Mounting Threads	M26 x 36 TPI	M26 x 36 TPI	M26 x 36 TPI	M26 x 36 TPI	M26 x 36 TPI	M26 x 36 TPI
Wavelength Range	436nm - 656nm	436nm - 656nm	486nm - 656nm	436nm - 656nm	436nm - 656nm	436nm - 656nm
Availability	Available Q3 2017	Available Q3 2017	In Stock	Available Q3 2017	In Stock	Available Q3 2017