

# Tropel® μCAT® Panther Micro-Objectives

High Numerical Aperture and Long Working Distance




## SPECIFICATIONS

Trade name	Panther 193	Panther 213	Panther 248
NA	0.745	0.75	0.75
Field (μm)	120	140	120
Wavelength (nm)	193.3	213.0	248.4 <i>filtered lamp capable</i>
Bandwidth (nm)	1 - FWHM	1 - FWHM	6 - FWHM
Pupil Diameter (mm)	4	4	4
EFL (mm)	2.68	2.67	2.67
Residual BB RMS OPD (mλ)	75 - maximum	50 - maximum	50 - maximum
Working Distance (mm)	≥ 8	≥ 8	≥ 8
Telecentric (degrees)	< 0.1 - object side	< 0.1 - object side	< 0.1 - object side
Calibrated Distortion (nm)	30 - maximum	30 - maximum	30 - maximum
Optical Material	Excimer SiO <sub>2</sub>	Excimer SiO <sub>2</sub>	Excimer SiO <sub>2</sub>
Obscuration (%)	15 - linear	15 - linear	15 - linear
Cemented Surfaces	None	None	None
Internal Foci	None	None	None
Diameter (mm)	86 - maximum	86 - maximum	86 - maximum
Length (mm)	63 - maximum	63 - maximum	63 - maximum
Flange-to-Focus (mm)	65 - nominal	65 - nominal	65 - nominal
Mount	M27 x 0.75 thread <i>specials to order</i>	M27 x 0.75 thread <i>specials to order</i>	M27 x 0.75 thread <i>specials to order</i>
Mass (g)	1600	1600	1600
Purge Requirement	N <sub>2</sub>	N <sub>2</sub>	N <sub>2</sub>
Documentation	OPD Interferogram, Flange-to-focus Certificate of Compliance	OPD Interferogram, Flange-to-focus Certificate of Compliance	OPD Interferogram, Flange-to-focus Certificate of Compliance

**NOTE:** inquire about a custom tube lens to support your magnification requirements.

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