

Technical data ImageMaster® Universal

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Optical set up	Finite, infinite or afocal
Max. off-axis angle	±180
Spectral range	UV: 250 nm ... 450 nm VIS: 450 nm ... 700 nm NIR: 700 nm ... 1.000 nm SWIR: 1.000 nm ... 2500 nm MWIR: 3 μm ... 5 μm LWIR: 7 μm ... 13 μm
Azimuth range	360°
Max. image height	±50 mm
Spatial frequency (in specification) Max. spatial frequency	UV: 100 lp/mm VIS / NIR: 500 lp/mm SWIR: 120 lp/mm MWIR: 80 lp/mm LWIR: 60 lp/mm
Accuracy (MTF on-axis and off-axis)	±0.02 MTF on axis ±0.03 MTF off axis
Repeatability (MTF on-axis and off-axis)	±0.01 MTF
EFL (Effective Focal Length) Accuracy	±0.2 %
Distortion Accuracy (without / with encoder) Repeatability (without / with encoder)	±0.7 % / ±0.25 % ±0.3 % / ±0.1 %
Lateral chromatic aberration Accuracy Repeatability	±0.5 μm ±0.3 μm
Longitudinal chromatic aberration Accuracy Repeatability	±1 μm 0.2 μm
CRA Accuracy Repeatability	±1° ±0.4°
FFL (relative) Accuracy Repeatability	±2 μm ±1 μm
Astigmatism Accuracy Repeatability	±4 μm ±1 μm
Field curvature Accuracy Repeatability	±2 μm ±1 μm