

# Technical data ImageMaster® HR

	ImageMaster® HR VIS	ImageMaster® HR IR	ImageMaster® HR MAX	ImageMaster® HR MAX IR
Optical set up	Infinite conjugates (finite optional)	Infinite conjugates	Infinite conjugates (finite optional)	Infinite conjugates
Max. off-axis angle	Up to ±110°	Up to ±110°	Up to ±70°	Up to ±70°
Spectral range	450 nm ... 750 nm, halogen (NIR/NUV optional)	LWIR: 8 μm ... 12 μm	VIS /NIR NUV optional	NIR, NUV, LWIR: 8 μm ... 12 μm VIS: 0.4 μm ... 0.9 μm MWIR : 3 μm ... 5 μm SWIR: 0.9 μm ... 1.7 μm on request
Azimuth range	360°	360°	360°	360°
Max. image height	±23 mm	±23 mm	±23 mm	±23 mm
Clear aperture			up to 100 mm	up to 100 mm

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Collimator range	50 mm ... 500 mm	50 mm <sup>2)</sup>	50 mm ... 1,000 mm	50 mm ... 1,000 mm <sup>2)</sup>
EFL range of the sample	1 mm ... 150 mm <sup>1)</sup>	1 mm ... 10 mm <sup>1), 2)</sup>	1 mm ... 200 mm <sup>1)</sup>	1 mm ... 200 mm <sup>1)</sup>
Spatial frequency (in specification) Max. spatial frequency	0 lp/mm ... 500 lp/mm 1,000 lp/mm (depending on sample)	0 lp/mm ... 60 lp/mm	0 lp/mm ... 500 lp/mm 1,000 lp/mm (depending on sample)	VIS/NIR/LWIR: 0 lp/mm ... 60 lp/mm MWIR: 0 lp/mm ... 100 lp/mm
Accuracy (MTF on-axis and off-axis)	±0.02 MTF	±0.03 MTF	±0.02 MTF	±0.03 MTF
Repeatability (MTF on-axis and off-axis)	±0.005 MTF	±0.02 MTF	±0.005 MTF	±0.02 MTF

- 1) Depends on mirror collimator  
 2) Larger on request