

# Technical data ImageMaster® HR

	ImageMaster® HR 2	ImageMaster® HR VIS	ImageMaster® HR IR	ImageMaster® HR MAX
Optical set up	Infinite conjugates (finite optional)	Infinite conjugates (finite optional)	Infinite conjugates	Infinite conjugates (finite optional)
Max. off-axis angle	Up to $\pm 105^\circ$	Up to $\pm 110^\circ$	Up to $\pm 110^\circ$	Up to $\pm 70^\circ$
Spectral range	NUV, VIS, NIR, SWIR, LWIR	450 nm ... 750 nm, halogen (NIR/NUV optional)	LWIR: 8 $\mu\text{m}$ ... 12 $\mu\text{m}$	VIS /NIR NUV optional
Azimuth range	360°	360°	360°	360°
Max. image height	$\pm 40$ mm	$\pm 23$ mm	$\pm 23$ mm	$\pm 23$ mm
Clear aperture	up to 45 mm			up to 100 mm

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Collimator range	50 mm, 300 mm, 500 mm	50 mm ... 500 mm	50 mm <sup>2)</sup>	50 mm ... 1,000 mm
EFL range of the sample	0.5 mm - 150 mm	1 mm ... 150 mm <sup>1)</sup>	1 mm ... 10 mm <sup>1), 2)</sup>	1 mm ... 200 mm <sup>1)</sup>
Spatial frequency (in specification)	0 lp/mm - 500 lp/mm	0 lp/mm ... 500 lp/mm	0 lp/mm ... 60 lp/mm	0 lp/mm ... 500 lp/mm
Max. spatial frequency		1,000 lp/mm (depending on sample)		1,000 lp/mm (depending on sample)
Accuracy (MTF on-axis and off-axis)	±0.02 MTF	±0.02 MTF	±0.03 MTF	±0.02 MTF
Repeatability (MTF on-axis and off-axis)	±0.005 MTF	±0.005 MTF	±0.02 MTF	±0.005 MTF

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