

Technical data ImageMaster® HR

| | ImageMaster® HR UltraPrecision | 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° | 360° |
| Max. image height | ±23 mm | ±23 mm | ±23 mm | ±23 mm | ±23 mm |
| Clear aperture | up to 100 mm | | | up to 100 mm | up to 100 mm |

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|---|---|---|----------------------------------|---|---|
| Collimator range | 50 mm ... 1,000 mm | 50 mm ... 500 mm | 50 mm ²⁾ | 50 mm ... 1,000 mm | 50 mm ... 1,000 mm ²⁾ |
| EFL range of the sample | 1 mm ... 200 mm ¹⁾ | 1 mm ... 150 mm ¹⁾ | 1 mm ... 10 mm ^{1), 2)} | 1 mm ... 200 mm ¹⁾ | 1 mm ... 200 mm ¹⁾ |
| Spatial frequency (in specification) Max. spatial frequency | 0 lp/mm ... 500 lp/mm 1,000 lp/mm (depending on sample) | 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 | ±0.02 MTF | ±0.03 MTF | ±0.02 MTF | ±0.03 MTF |
| Repeatability (MTF on-axis and off-axis) | ±0.005 MTF | ±0.005 MTF | ±0.02 MTF | ±0.005 MTF | ±0.02 MTF |

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