

Technical data ImageMaster® PRO HD, ST & Display

	ImageMaster® PRO HD	ImageMaster® PRO ST	ImageMaster® PRO Display
Type	Stand alone	Stand alone	Stand alone
Optical set up	Infinite conjugates	Infinite conjugates	Infinite conjugates
Max. spatial frequency	600 lp/mm	150 lp/mm	60 lp/deg
Accuracy MTF on-axis	0.8 % MTF (up to 200 lp/mm) ¹⁾	2.0 % MTF (up to 125 lp/mm) ^{1, 3)}	3.0 % MTF (up to 200 lp/mm) ¹⁾
Accuracy MTF off-axis	1.5 % MTF (up to 200 lp/mm) ¹⁾	3.0 % MTF (up to 125 lp/mm) ^{1, 3)}	3.0 % MTF (up to 200 lp/mm) ¹⁾
Accuracy EFL (Effective Focal Length)	4 µm	0.2 %	-
Accuracy FFL (Flange Focal Length)	-	4 µm	-
Measurement time display on axis	1.8 sec/sample ²⁾	2 sec/sample ²⁾	1.0 sec/sample ²⁾
Measurement time display all off axis curves	1.8 sec/sample ²⁾	2 sec/sample ²⁾	1.0 sec/sample ²⁾
Sorting time per sample	-	-	-

¹⁾ Accuracy is measured on MTF peak values

²⁾ depending on the sample

³⁾ With a Sample EFL: 25 mm, F#: 4.2

Technical data ImageMaster® PRO HD, ST & Display

	ImageMaster® PRO HD	ImageMaster® PRO ST	ImageMaster® PRO Display
Throughput of samples (Units per hour)	2.000 UPH	1.7000 UPH	Depending on sample load and unload process by customer
Measurement points	> 85 (43 field positions / cameras) ²⁾	400 (200 field positions / cameras) ²⁾	13 (26 field positions / cameras) ²⁾
Dimensions (height x width x depth)	1,570 mm x 1,340 mm x 810 mm	1,570 mm x 1,340 mm x 810 mm	1,570 mm x 550 mm x 600 mm
Weight	240 kg	240 kg	240 kg
Size of sample holder/ scan table travel	Tray 150 mm x 150 mm	Tray 150 mm x 150 mm	Tray 150 mm x 150 mm
Sample holder/ trays	3 point kinematic mount tray with certified reference flatness	3 point kinematic mount tray with certified reference flatness	3 point kinematic mount tray with certified reference flatness
Sample quality classes	4 quality classes	4 quality classes	4 quality classes
Cleanroom class FS 209/ ISO14644-1	100 / ISO 5	100 / ISO 5	100 / ISO 5
Light source	halogen light source (white LED optional)	halogen light source (white LED optional)	halogen light source (white LED optional)
Filter	VIS (NIR Optional) - all filters possible - Standard Photopic Eye Filter	VIS (NIR Optional) - all filters possible - Standard Photopic Eye Filter	VIS - Standard Photopic Eye Filter
ACM	mounted Autocollimator	mounted Autocollimator	mounted Autocollimator