

Technical data ImageMaster® PRO

	ImageMaster® PRO 10	ImageMaster® PRO X Compact	ImageMaster® PRO 10 Wafer	ImageMaster® PRO SF
Type	Stand alone	Table top device	Stand alone	Stand alone
Optical set up	Infinite-finite conjugates	Infinite conjugates	Infinite-finite conjugates	Finite conjugates
Max. spatial frequency	600 lp/mm	600 lp/mm	400 lp/mm	350 lp/mm
Accuracy MTF on-axis	0.8 % MTF (up to 350 lp/mm) ¹⁾	1 % MTF (up to 250 lp/mm) ¹⁾	0.8 % MTF (up to 350 lp/mm) ¹⁾	2 % MTF (up to 200 lp/mm) ¹⁾
Accuracy MTF off-axis	1.5 % MTF (up to 350 lp/mm) ¹⁾	2 % MTF (up to 250 lp/mm) ¹⁾	1.5 % MTF (up to 350 lp/mm) ¹⁾	3 % MTF (up to 200 lp/mm) ¹⁾
Accuracy EFL (Effective Focal Length)	4 µm	4 µm	5 µm	-
Accuracy FFL (Flange Focal Length)	4 µm	5 µm	4 µm	4 µm
Measurement time display on axis	1.3 sec/sample	1.5 sec/sample	1.3 sec/sample ²⁾	2.0 sec/sample ²⁾
Measurement time display all off axis curves	1.3 sec/sample	1.5 sec/sample	1.3 sec/sample ²⁾	2.0 sec/sample ²⁾
Sorting time per sample				

¹⁾ Accuracy is measured on MTF peak values

²⁾ depending on the sample

³⁾ 10 seconds for changing trays, 1 tray includes 148 samples

⁴⁾ 1 tray including 148 samples/ tray changing time 5 sec.

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Throughput of samples (Units per hour)	2,700 UPH ³⁾	2,400 UPH ⁴⁾	2,400 UPH ⁴⁾	1,700 UPH ⁴⁾
Measurement points	53 (27 field positions / cameras)	49 (25 field positions / cameras)	53 (27 field positions / cameras) ²⁾	> 53 (27 field positions / cameras) ²⁾
Dimensions (height x width x depth)	1,570 mm x 1,340 mm x 810 mm	905 mm x 620 mm x 650 mm	1,570 mm x 1,340 mm x 810 mm	1,570 mm x 1,340 mm x 810 mm
Weight	240 kg	92 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 220 mm x 220 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 for wafer	3 point kinematic mount tray with certified reference flatness for wafer
Sample quality classes	4 quality classes	4 quality classes	4 quality classes	4 quality classes
Cleanroom class FS 209/ ISO14644-1	100 / ISO 5	1,000 / ISO 5	100 / ISO 5	100 / ISO 5
Light source	halogen light source (white LED optional)	white LED	halogen light source (white LED optional)	halogen light source (white LED optional)
Filter	VIS (NIR Optional) - all filters possible - Standard Photopic Eye Filter	VIS - all filters possible - Standard Photopic Eye Filter	VIS (NIR Optional) - all filters possible - Standard Photopic Eye Filter	VIS (NIR Optional) - all filters possible - Standard Photopic Eye Filter
ACM	mounted Autocollimator	Exchangeable Autocollimator	mounted Autocollimator	mounted Autocollimator