TRIOPTICS
See the Difference

Technical data ImageMaster® PRO

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

[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)]	2,100 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)	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	1,900 mm x 2,320 mm x 900 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	700 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	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	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	4 quality classes
Cleanroom class FS 209/ ISO14644-1	100 / ISO 5	1,000 / ISO 5	100 / 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)	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 (NIR Optional) - 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	mounted Autocollimator
Camera	USB 3.0	USB 3.0	USB 3.0	USB 3.0	USB 3.0

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