

ImageMaster® PRO 5

The Standard in MTF Testing
Worldwide



ImageMaster® PRO Series are the leading instruments for testing image quality of mobile phone and digital camera lenses and are recognized as the industry standard providing highest accuracy and reliability. The calibration of the instruments is directly traceable to international standards. The PRO 5 Series is the most successful produc-

tion MTF-tester from TRIOPTICS for singulated lenses and wafer level samples (WL-lenses). In WL-lens applications the PRO 5 series reaches a measurement time of less than one second per sample. The continuous development on the software represents a significant improvement of the test cycle time.

ImageMaster® PRO 5

Advantages of the new ImageMaster® PRO 5 Series at a glance:

- Reduced cycle time compared with ImageMaster® PRO 4 systems
- Improvement of the signal/noise ratio
- Higher accuracy of the alignment tools
- High precision sample holders for 5MP, 8MP and 12MP lenses
- New tray technology for diced WL-lenses with short EFL
- Advanced and stable software with additional functions

Technical Data ImageMaster® PRO 5 Series

	ImageMaster® PRO 5 Ultra	ImageMaster® PRO 5	ImageMaster® PRO 5 Wafer	ImageMaster® Compact PRO
Optical set up	Infinity-finite conjugates	Infinity-finite conjugates	Infinity-finite conjugates	Infinity-finite conjugates
Spatial frequency	0 ... 300 lp /mm	0 ... 300 lp /mm	0 ... 300 lp /mm	0 ... 200 lp /mm
Accuracy MTF on-axis	1.5 % MTF	2 % MTF	2 % MTF	3 % MTF
Accuracy MTF off-axis	2.5 % MTF	3 % MTF	3 % MTF	4 % MTF
Accuracy EFL (Effective Focal Length)	5 µm	5 µm	5 µm	5 µm
Accuracy FFL (Flange Focal Length)	6 µm	8 µm	4 µm	10 µm
Minimum measurement time	1.0 sec / sample	1.2 sec / sample	1.0 sec / sample	4.0 sec / sample
Average measurement time	2.0 sec / sample	2.5 sec / sample	2.5 sec / sample	5.0 sec / sample
Dimensions (height x width x depth)	1365 mm x 1330 mm x 675 mm	1350 mm x 1330 mm x 660 mm	1350 mm x 1330 mm x 660 mm	682 mm x 650 mm x 610 mm
Weight	210 kg	210 kg	190 kg	90 kg
Sample holder	Tray with multiple sample seats (3 quality classes)	Tray with multiple sample seats (3 quality classes)	Wafer tray	Tray with multiple sample seats (3 quality classes)
Clean room class FS 209 / ISO14644-1	100 / ISO 5	100 / ISO 5	100 / ISO 5	no cert.



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