



TRIOPTICS

TRIOPTICS GMBH · OPTICAL TEST EQUIPMENT

ImageMaster[®] Compact PRO

Cost Effective and Fast
MTF Testing



The **ImageMaster[®] Compact PRO** is a production MTF tester for qualifying mobile phone and other miniature lenses measuring objective lenses with an effective focal length between 1 and 12 mm. The instrument is opti-

mized for throughput, compactness and durability. With the typical measurement time of 4 sec per lens more than 10.000 lenses are tested within a 24h shift.



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Like every ImageMaster® production tester the Compact PRO fulfills the testing requirements for the latest generation of mobile phone lenses. The on-axis MTF is checked with an accuracy of 2% MTF traceable to international standards, and of course further important parameters like EFL and FFL are measured, too. For the test target illumination TRI-OPTICS has chosen an innovative white light LED design with a long life time and constant parameters.

The **ImageMaster® Compact PRO** is designed for future developments like the upcoming generation of five mega pixel objective lenses.

It is a space saving table top device and is easily integrated into the production environment.

The **ImageMaster® Compact PRO** is available as a single seat tester or with an automatic multi-sample tray system for high volume testing.

Technical Data of ImageMaster® Compact PRO with Autotray

Accuracy MTF on-axis	2 % MTF (traceable)
Accuracy MTF off-axis	4 % MTF
Measurement time/sample	4 sec.
Resolution	0,01"
Measurement time all Through Focus Curves /sample	8 sec.
Measurement parameters	MTF on-axis, MTF off-axis, trough focus curves, effective focal length, flange focal length, depth of focus, tilt of image plane, azimuth of image plane, field curvature, astigmatism, relative optical distortion
Light source	white LED (halogen optional)
Filter	VIS (NIR Optional)
Stage accuracy (x,y,z)	2 µm
System alignment	Autocollimator optional (one for every customer)
Type of instrument	Table top device with PC and monitor / table optional
Sample holder: travel	Tray 140mm x 140mm
Dimensions (width × height × depth)	650 mm × 682 mm × 610 mm
Weight	90 kg



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