

Multi Scale Topographer

Precision surface measurement at micro to macro scale

Co-developed by



Core Capabilities

 High-resolution surface topography

 Non-contact optical measurement

 Interferometer grade analysis

 Real-time data output

Why This Collaboration Works?

Optical Perspectives
(Optics & Metrology)

- PSM platform & optics
- Optical system design & integration
- Measurement & PSM expertise

KostaCLOUD
(Systems & Software)

- Electronics & Software
- Phase unwrapping & Zernike fitting
- Real-time ODS data streaming



Built For

- On-Machine Metrology
- Quality control
- Surface Finish & Topography

Delivering an interferometer-grade Multi Scale Topographer optimized for real-world manufacturing environments



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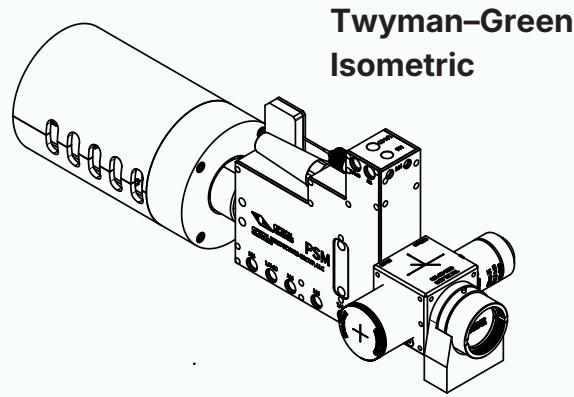
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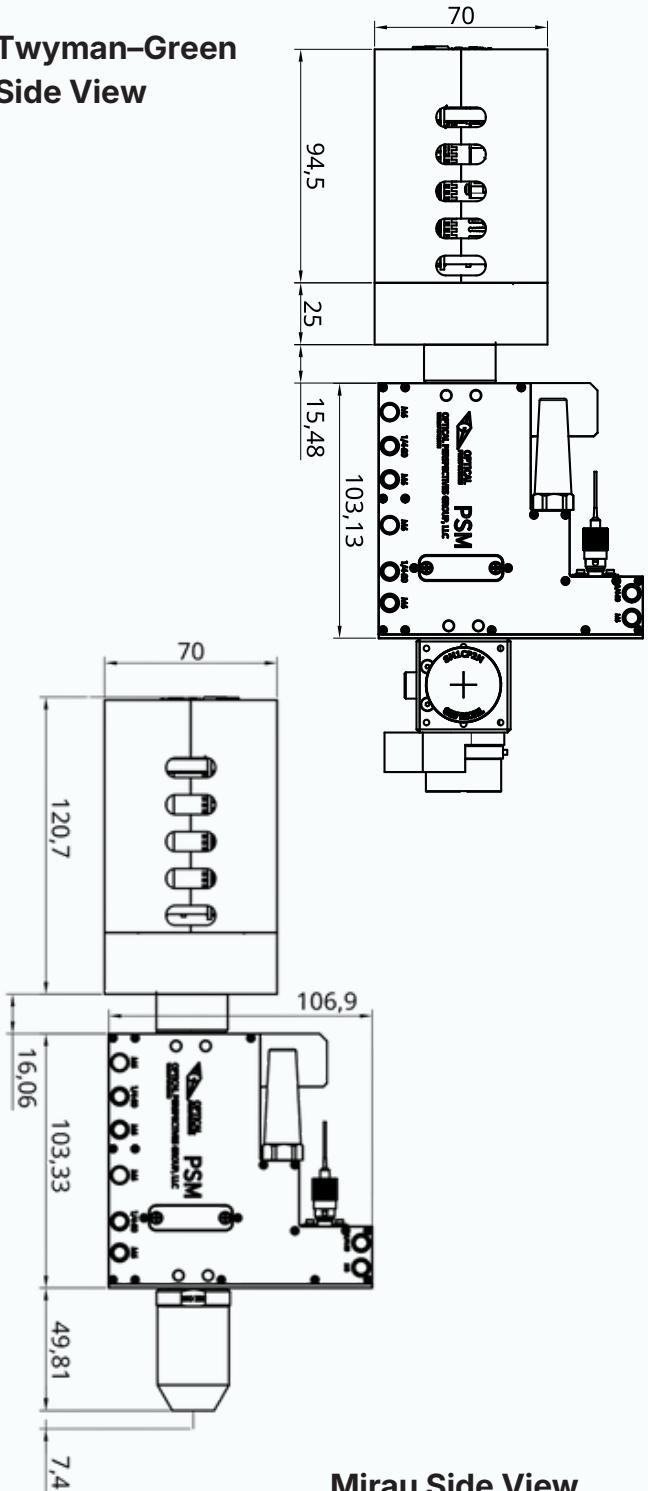
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Specifications

System Type	Portable high resolution video interferometer
Objectives (Options)	Mirau, Michelson or Standard objective infinity corrected with Twyman-Green / Michelson setup
Working Distance	0 to ∞
Vertical Range	$\pm 4\mu\text{m}$
RMS Repeatability	down to 0.05nm
RMS Precision	down to 0.1nm
Sample Reflectivity	0-100%
CMOS Sensor	Sony IMX412 Color 7.857mm diagonal (1/2.3) 4056 x 3040 (max)
Internal Light Sources	Full field LED and laser diode source (optional replace)
External Light Source (FC/APC)	(Twyman-Green only) Fiber Coupled He-Ne Laser
Mounting Positions	Downward looking; upward looking; custom mounting options available
Mounting Options	1) Manual Tip/Tilt & Piston 2) XYZ, Tip, Tilt Motorized Translation Stage
Interface	Ethernet
Software	KostaCLOUD KostaCAM Interferometer
Mass	$\sim 2\text{kg}$
Dimensions	306 x 107 x 70 mm
OEM Integration	API available for integration purposes



Twyman-Green Side View



Mirau Side View