

M³

MEASUREMENT
SOLUTIONS INC.



THE PERFECT BLEND OF INNOVATIVE DESIGN AND CUTTING EDGE TECHNOLOGY

M-WAVE 339 IR INTERFEROMETER

The M-Wave 339 is a state of the art LUPI (Laser Unequal Path Interferometer) operating at 3.39 micrometers. It is the ideal instrument for testing mid-wave infrared imaging components/systems and optical material homogeneity.

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M-WAVE 339 IR SPECIFICATIONS

SPECIFICATION

Accuracy (Uncalibrated)
Accuracy (Calibrated)
Repeatability
Base Instrument Aperture
Beam expander Aperture
Camera Resolution
Zoom Lens
Acquisition Mode

DESIGN VALUE

0.01 λ RMS Wavefront Error @ 3.39 μ m
0.004 λ RMS Wavefront Error @ 3.39 μ m
0.001 λ RMS Wavefront Error @ 3.39 μ m
25.4mm Diameter
101.6mm Diameter
640 x 512 Pixels
1X to 6X
Phase Shifting

LASER SPECIFICATIONS

Laser Type
Wavelength
Output Power \geq
Beam Polarization

HeNe
3.39 μ m
2 mW
Linear

**Custom lasers available upon request*

MAINFRAME

Envelope Dimensions (LWH)
System Optical Axis Height
Electrical Requirements
Laser Safety
Weight
Analysis Software

744mm x 407mm x 275mm
115mm
120 VAC, 60 Hz
CDRH Class IIIb Laser Product IEC Class 3B
60 lbs (Mainframe)
ESDI Intellwave LE-2 or Apre Reveal

CONTROLS

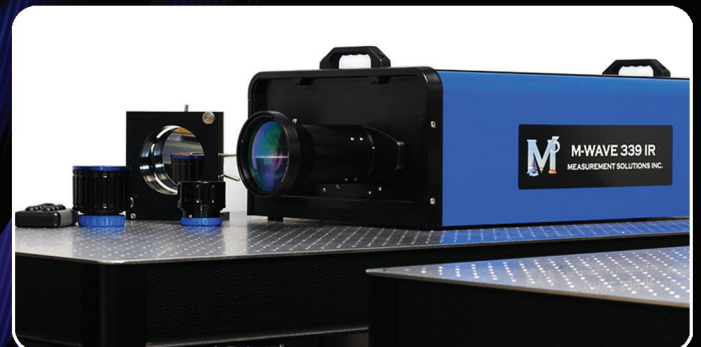
Manual reference beam tip/tilt
Motorized laser power attenuator
Motorized 6x continuous zoom
Motorized focus
WFOV alignment mode/NFOV Measure mode
Single factory set reference arm reflector (98%)

ACCESSORIES

Beam expanders (75mm, 100mm, 150mm, 200mm)
90 degree extension tube elbow
Handheld remote control for operating motorized items
5-axis lens/window holder
Height adjust risers
Automated focal length measurement device

OPTIONS

Beam expanders (75mm, 100mm, 150mm, 200mm)
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Automated focal length measurement device



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