

Powerful Benchtop Mid Wave Technology

AST-M150T

Features & Specifications:

- Meant as an aid to find defects either visually or thermo-graphically with the MWIR band (3-5 microns)
- Thermo graphic microscope to find thermally identifiable defects
- Applications for Aerospace, medical device, semiconductor and forensic; materials and processes development and analysis
- Magnifications from Macro to 1x, 2.5x, 4x and 5x
- Precision 150mm travel manual coarse and fine precision stage for accurate navigation and metrology
- Stage has 6mm cross-roller, lead-screw/stepper motor construction and can accommodate heavy loads (up to approximately 25 kilos)
- Precision Z axis 250mm travel manual column for sample and tooling compatibility
- Thermal detection to 20 mK
- Spatial resolution below 10 microns 640 x 512, 20 micron pixel
- InSb FPA on a closed cycle dewar (no LN2 required)
- Turn key system
- System includes various image analysis and enhancement features
- System includes image stitching for large sample, high resolution work



The **AST-M150T** is a new Mid Wave Infrared Benchtop Microscope for defect detection and analysis. Universal configuration for a multitude of applications. Powerful software included.

Options include:

- Motorized (& CNC) X & Y Axis
- Motorized (& CNC) Z Axis
- 0.1 or 0.5 μm Linear Encoders for X, Y & Z Axis
- Laptop or Industrial Computer Interface
- 200mm, 300mm and Custom Stages
- Automated and Custom Systems
- Wafer Loaders
- Illumination Packages
- Heated Tooling Plates
- Long Wave Systems also available



Autocollimator

**Compact & Powerful
Precision Angle
Measurement System**

A highly flexible system packed with features not available from other attitude measurement systems.



AST-200

**Advanced Defect
Inspection & Metrology
System**

Designed for applications where high-speed defect detection and precision measurements are required.



AST-M200C

**Mid Wave Infrared
Inspection System**

Mid Wave Infrared platform designed for defect detection, analysis, and thermography on wafers, die, devices, and more.



AST-230M

**Ergonomic Metrology
Workstation**

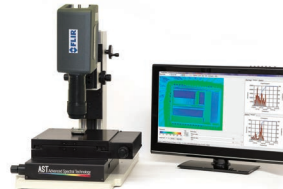
An easy to use metrology workstation with a range of recipe controlled illuminations.



AST-S200T

**Short Wave Infrared
Microscope
Bench Top System**

Designed for materials transparent to the Near Infrared (NIR) / Shortwave Infrared (SWIR) wavelengths.



AST-M150T

**Mid Wave Infrared
Microscope for Defect
Detection and Analysis**

Mid Wave Infrared Bench Top Microscope for defect detection, analysis, and thermography.



Setna Ontos7

**Atmospheric Plasma for
Surface Preparation**



Ontos7 provides a rapid atmospheric process which reduces surface contaminates.



AST Services:

- Service all brands and styles, Preventative and repair
- Calibrate most instruments and systems
- Training your staff on proper operation and techniques
- Upgrading for Digital Imaging, Analysis, Illumination Techniques, etc.
- Application Specialists, Let us help you figure out how to do what you need for your process, procedure, Metrology and/or inspection requirements!