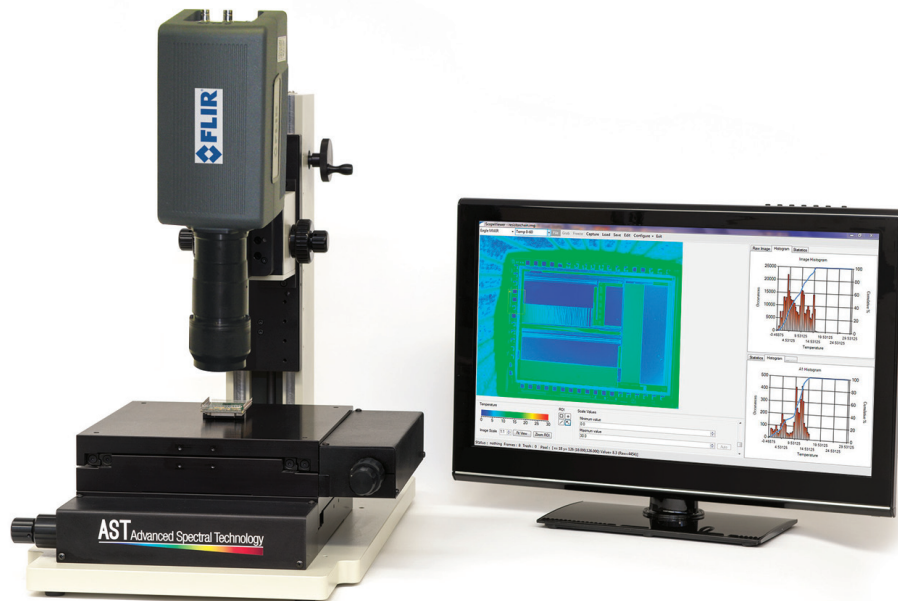


Powerful Bench-Top Mid Wave Technology

# AST-M150T

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



## FEATURES & SPECIFICATIONS

- Meant as an aid to find defects either visually or thermographically 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
- **Options include:**
  - Motorized (& CNC) X & Y Axis
  - Motorized (& CNC) Z Axis
  - 0.1 or 0.5  $\mu\text{m}$  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