Basic Measurements
- Micron Marker overlays on image
- Measure in metric or English units
- Easy to calibrate to your standards
- Point-to-point and segmented lines
- Area measurement: ellipses, rectangles, irregular shapes
- Arc, circle, and elliptical measurements
- Manual tagging of events with counters
- Videotext labels perfect for reporting
- Calibration log
- Store line titles to create custom measurement routines

Parallel Line Caliper Measurement
- Measure the distances between parallel lines
- Multiple lines may be drawn for measuring zones
- Sets of lines at any angle on the image
- Multiple caliper sets per image

Special Measurements
- Measure multiple angles
- Overlay grids on images
- Overlay specific size ellipses or boxes for Go/NoGo comparison
- Tolerance Specs may be inputted for any measurement
- Live measurement module available for PAXcam users

PAX-it Measurement & Analysis Modules

Basic:
- Scale bar on image
- Point to point measurements
- Segmented lines
- Manual area measurements: Rectangles, Ellipses Polygons, Irregular shapes
- Angle measurement
- Arc, circle and ellipse measurement
- Grid overlays on image
- Parallel line calipers
- Manual tagging of events
- Reporting through MS Word™, Excel™, or PowerPoint™

Enhanced:
Includes all Basic Module features plus:
- Auto-detection by density
- Auto-detection by color
- Filters for detected objects
- User-defined wizards for repetitive analyses
- Nodularity wizard
- Ferrite/Pearlite wizard
- Grainsize wizard
- Plating & Coating Thickness wizard
- Flake Size Analysis wizard
**Measurement & Analysis for Industrial Applications**

**Counting & Sizing**
- Automatic detection based on threshold levels
- Detect either light or dark areas, or user defined color values
- Simple wizard interface simplifies the process
- Storage of settings allows construction of standardized, user defined wizards for repeat analyses
- Include or exclude holes in objects
- Filter objects by roundness
- Filter objects by size
- Separate touching objects manually or automatically
- Sort areas into size categories
- View percentages and roundness of areas detected (porosity, nodularity)
- Detect within a region of interest (ROI)
- Complete customizable reporting
- Multiple passes with different settings allow ratios of objects to be obtained

**Special Analysis Wizards**

**Grainsizing Wizard, Flake Size Analysis Wizard**
- Easy step by step wizard walks you through the process
- Usable at any magnification
- Uses a choice of ASTM standard assays
- User may manually adjust the automated settings

**Nodularity Wizard, Ferrite/Pearlite Wizard**
- User defines the values to be used in the assay
- Entire image or a specific region of interest in the image may be used for analysis
- Data may be combined from several images
- Settings may be restored, allowing for repeatability

**Plating Thickness/Coating Thickness Wizard**
- Based on color or on grayscale density
- Auto detection of layers, with manual overrides
- Multiple layers can be detected and reported
- For straight, curved or circular layers

**User Defined Wizards**
- Construct your own analytical routines, and save them to be applied to new samples
- Automated routines may be adjusted manually to accommodate differences in samples or lighting

**Data Export & Reporting**
- Summary statistics automatically calculated in PAX-it
- Automatic spreadsheet formation with PAX-it/MS Excel™ link
- Customizable data handling and graphing with PAX-it/MS Excel™ link
- Images with measurement overlays may be included in reports
- Report templates allow the user to define the best layouts for data reporting, including special formulas, stats, and graphs
- Simple reports through links with MS Word™ and MS PowerPoint™ also available
- Data export to other applications
- Data for each object may be displayed on image

Self assembling report will automatically export your measurement data, along with the image and image descriptors, to MS Word™ or MS Excel™ documents.