Live Measurement and Overlay Settings: Users can perform measurements on the live preview image, using the crosshair or grid masks to center and count. The grid masks include calibration data. Calibration marker (scale bar) can be placed on the live preview image. The marker (scale bar) can also be burned on each captured image automatically. Any standard file format image can be chosen to see it above live preview image.

Calibration (Auto, Manual): All measurements start with an accurate calibration. Auto, Semi-Auto calibration functions allow the software to calculate the pixels-per-unit value automatically. Only setting the unit for the calibration scale and the distance between the scale marks is needed. This feature greatly improves the accuracy and repetition of measurements. Manual calibrations are easily added and saved for recall from a drop down menu. All calibrations can be saved as files, which let the calibration be retrieved by simply opening the saved files later. Calibration can be protected by password option. Two password options, one in calibration menu itself and the other in camera resolution option, protect calibration by unexpected change. A scale bar can be permanently added to each image. Scale bar properties for color, size and text are simple to optimize for any image background.

Time Lapse Capture and Movie File Production & Import into Power Point: Software features a Time Lapse Capture function that supports TIF, BMP and JPG file formats. The Time Lapse Capture function also includes an Auto Save feature by yyyy/mm/dd/hour/minute/second. You can save video movie recordings in AVI, MPG, MPEG, and MOV formats.

Export Into Excel® - with one mouse click: A single mouse click exports the original image with measurement, calibration, annotation overlay, measurement data, statistics, and chart.

Manual Measurement Tools - Including Various Perpendicular Distance: Software's versatile manual measurement features include tools for measuring lengths, areas, and angles and can even auto detect an object's outline and then make specified measurements. The software is equipped with a wide choice of powerful measurement tools including 3-point circle functionality, Npoint circle measurement functionality, parallel line distance measurement, perpendicular distance measurement and object distance measurement. In addition, a zoom-in window can be used to determine the accurate measuring point of an object. Once you've measured a specimen you can easily export all of the images, measurement data and statistics to an Excel® file. With PixeLINK µScope, comprehensive statistics and data are just one effortless mouse click away.

Line Profiling: Single, multiple, parallel and Polyline commands provide Gray/Red/Green/Blue intensity values for specific lines within an image. The profile data of each pixel on the line can be exported to Microsoft® Excel.

Image Processing: Manual Brightness, Contrast, Gamma, Background Subtraction, Histogram, Clone, Crop, ROI, Resize, Rotate, Split, Image Mode Change, Grayscale, RGB, HSB, YUV Pseudo Color view, Full range of enhancement and morphology filters 8bit and 16bit per channel. The profile data of each pixel on the line can be exported to Microsoft® Excel.

Manual Measurements: Point Count, Straight Line, Circle by radius, Circle by N points, Circle by diameter, Circle by 3 points, rectangle, polygon, Polyline, splice lines from a common point, auto trace, angle parallel lines, perpendicular width, perpendicular from common line, angle between 2 lines, distance, perpendicular distance.

Annotation: Line, arrow, Polyline, spline, rectangle, ellipse, text.

Region of Interest- ROI with unique add/subtract capability: Rectangle, arbitrary rectangle, circle, arbitrary ellipse, Polyline, spline, magic wand ROI itself can be saved to work with other images. The saved ROI can be placed on the exact same location of other images.

View and Zoom Image: Manual zoom In-Out, User Defined, Fit to Window, 1600% Zoom in Window for Accurate Edge Detect, sizable context Window to view all open Images.

Image Editing: Undo, Redo, Copy, Paste, Paste New, Delete, Delete All, Annotate, Image Information.

Save Options & Supported Image File Formats: TXT File Format, image and measurement data together in Proprietary .img File Format for future editing and data collection. - jpg, jpeg, tif, tiff, bmp, gif, pcx, tga, mpg, mpeg, avi, mov, img, rpt, txt and etc.

Window View: Split Horizontal, Split Vertical, Cascade, Tile Horizontal, Tile Vertical, Arrange icons, Dynamic User Interface (UI), Classic, Modern.

Time Lapse Sequence Control: Play Forward, Backward, Making Movie File (mpg, avi, mov) with Still Images, Split Single Image from Sequence File.