Digital Precision
Productivity. Delivered.

EZ0804MV-XYZ

Manual Video Measuring System

High Resolution Digital Imaging

Precision Measurement

Sub-pixel edge detection

Turnkey Metrology Solution

- *Digital readout (DRO) within the software*
- *Clear sharp images with high resolution digital camera and quality optics*
- *34-200X magnification (1X objective) with detent zoom optics for viewing and measuring small features*
- *Annotation and image capture for failure analysis or part history documentation*
- *Data analysis directly to Excel*
- *Overlay features for comparison*
- *Part profile export*
- *Dell WLCD flat panel monitor with Windows 7*
- *Optional Touch screen operation*
- *User friendly measurement and imaging software*

System Features

Travel:	8 (X) x 4 (Y) x 5 (Z) inch
Drive:	Manual XYZ
Encoder:	0.001 mm on XY 0.0002 mm on Z
Camera:	3M color digital camera.
Optics:	0.7x-4.5x Navitar detent zoom
Lighting:	Manual LED ring and sub-stage
Software:	DMP-1500 measurement and imaging software
Computer:	Dell mini-tower
Monitor:	22 inch LCD
OS:	Windows 7 Professional
Dimension:	20 (W) x 26 (D) x 24 (H) inch
Warranty:	One year warranty

Options

Base:	Granite
Z Axis:	Computer control with auto-focus
Encoder:	0.0005 or 0.0001 mm resolution
Objective:	2X, 5X, 10, or 20X
Lighting:	Coaxial LED lighting
Computer:	All-in-one or portable
Monitor:	22” touch screen
Camera:	CCD or digital camera
Software:	DMP3000 metrology software
Touch Probe:	Renishaw touch probe

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Quality Metrology Provider Since 1998

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Features and Functions

File
- New
- Open
- Save
- Save As
- Properties
- Run
- Run Step
- Run Repeat
- Import
- Set Origin
- Export
- Recent Files
- Exit

Auxiliary
- Comment
- Prompt
- Calibrate X
- Calibrate Y
- Set Calibration
- Camera
- In Port
- Out Port

Help
- Help
- About

Tool
- Find
- Teach
- Copy
- Test
- Update
- Edit
- Crosshair Tool
- Edge Tool
- Circle Tool
- Arc Tool
- Linewidth Tool
- Slot Tool
- Ellipse Tool
- Area Tool
- Focus Tool
- Cross Target
- Rectangle Target
- Circle Target

Output
- Format
- DDE Link
- Save Results
- Print Results
- Send Results
- Edge Points
- Result Buffers

Measure
- Edit
- Distance
- Circle
- Linewidth
- Angle
- Area
- Slot
- Ellipse
- Position
- Circularity
- Concentricity
- Straightness
- Angularity
- Parallelism
- Perpendicularity
- Size
- Statistics
- Create Result Buffer

View
- Zoom In
- Zoom Out
- Zoom Window
- Zoom All
- Zoom Viev
- Show Drawing Bar
- Show Annotation

Video
- Live Image
- Capture
- Open Image
- Open Collection
- Histogram
- Pixel
- Enlarge
- Maximize
- Reference
- Overlay
- Subtract
- Blink
- Compare
- Copy Image
- Save Image
- Save Collection
- Print Setup
- Print Preview
- Print

Setup
- System Setup
- Lock Tool X
- Lock Tool Y
- Calibration
- Change Password
- Restore Password

Construction
- Zero
- Frame/Skew
- Offset
- Project
- Mirror
- Rotate
- Parallel
- Intersect
- Bisect
- Perpendicular
- Create Variable
- Math

Feature
- Tool
- Relative Tool
- Point
- Line
- Arc
- Circle
- User Feature
- Gauge Ball
- Gauge Diameter

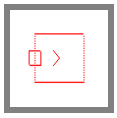
Edit
- Setup
- Modify
- Insert
- Delete
- Select All
- Remove Last
- Rename
- Print
- Cancel
- Duplication
- Set Break Point
- Clear Break Point

Annotation
- Color
- Line Width
- Define
- Text
- Line
- Arrow
- Circle
- Rectangle
- Ellipse
- Polygon
- Curve
- Ruler

Image Tools

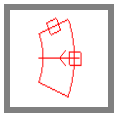
Crosshair Too: Manual define a single point.

Edge Tool: Automatically find all points on an edge.



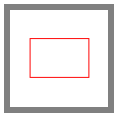
Circle Tool: Automatically find all points on a circle.

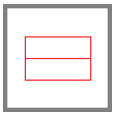
Arc Tool: Automatically find all points on a radius.



Linewidth Tool: Automatically find all points on two parallel edges.

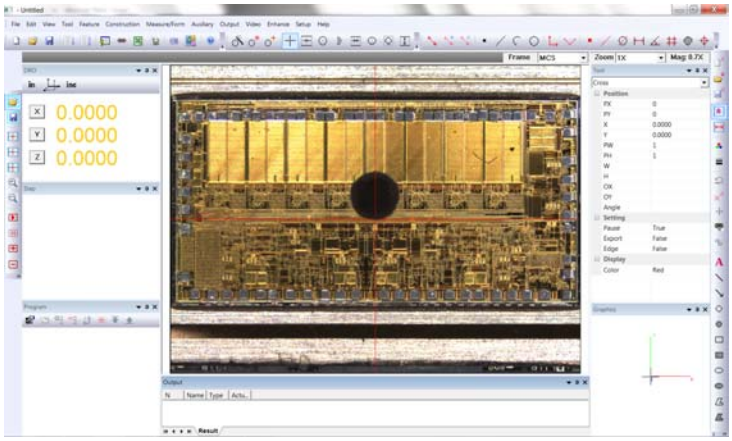
Area Tool: Automatically find the area and centroid of an area.





Focus Tool: Auto-focus.

Ellipse Tool: Automatically find all points on an ellipse.



	1X	2X	5X	10X	20X
NA	0.07	0.1	0.14	0.25	0.4
Depth of View (mm)	0.1	0.05	0.025	0.008	0.003

* Zoom at highest magnification

Focus Accuracy = Depth of View + Surface Roughness