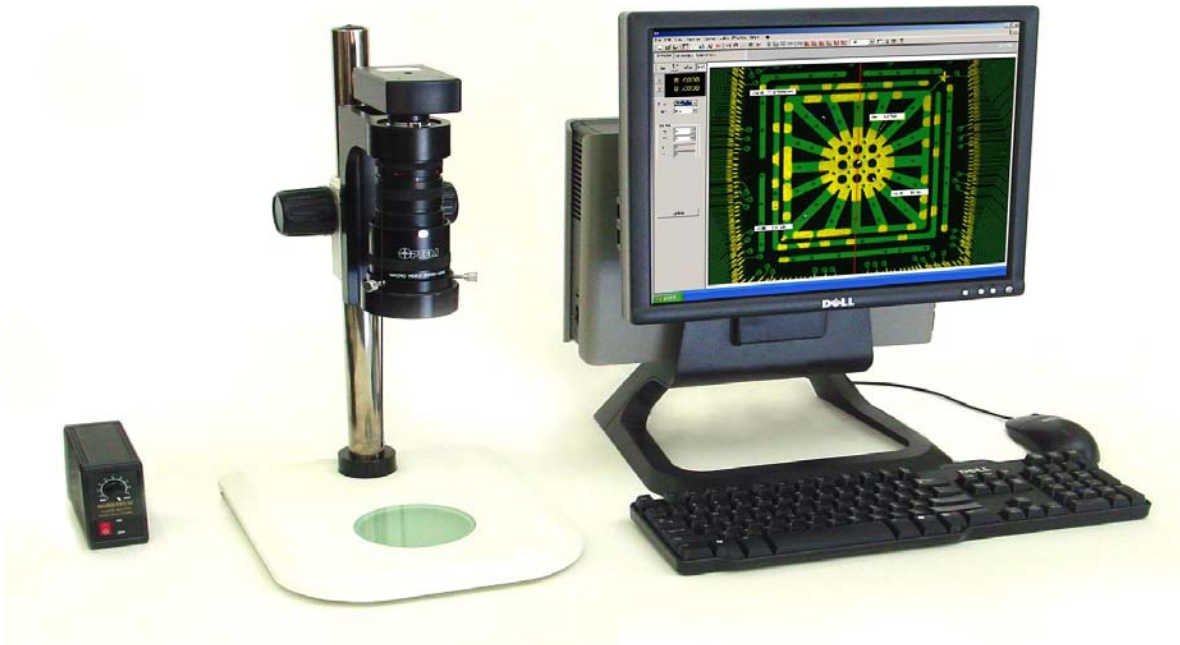




DP1-FV Digital Video Microscope



The DP-1 FV is a very affordable yet powerful turn-key system. The system also includes the DMP1000 software enabling you to easily do video measurement, inspection and annotation for your general image documentation needs. The high resolution digital camera delivers a superb color image while its integrated design saves you work space.

Options include the DMP2000 software for high precision field of view measurement and an external control box for ease of operation.

Basic System

Base: Base Stand and Focus Arm.
Camera: Lumenera USB-2.0 Digital Color Camera, with 1280x1024 Resolution.
Optics: Optem 18-108mm, F/2.5 Macro Zoom Lens.
Lighting: LED Variable Illumination Ring.
System: Dell Portable Computer, with 17" LCD Monitor.
Software: DMP-1000.

Options

DMP2000 Metrology Software

- Edge Detection.
- Part Programming.
- DXF Export.

Digital Camera

- Resolution up to 5120 x 4096.

Optics

- Optem 70XL 32- 462mm, with Detent Zoom.

Lighting

- Sub-Stage Back Lighting.

External Control Terminal

- Configurable.

Digital Precision Corp.

5152 Bolsa Avenue, Suite 104
Huntington Beach, CA 92649
Tel: (714) 379-6188
Fax: (714) 892-7451
www.dpccorp.com

Images

Source

- Frame Grabber
- FireWire
- CameraLink
- USB
- TWAIN
- File

Capture

- Image
- Image with annotation
- Screen

View

- Pixel
- Zoom In
- Zoom Out
- 1:1
- Full Screen

Processing

- Histogram
- Grayscale
- Color Correction
- Filters
- Effects
- Sizing
- Image Processing

Comparison

- Overlay
- Subtract
- Blink
- Compare

Format

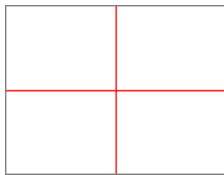
- .BMP
- .JPG
- .TIF
- .PCX
- .PNG
- .PCT
- .FPX

Annotation

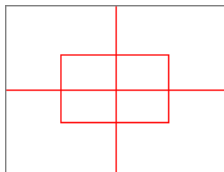


- Color
- Line Width
- Delete
- Edit
- Text
- Line
- Arrow Line
- Circle
- Filled Circle
- Rectangle
- Filled Rectangle
- Ellipse
- Filled Ellipse
- Polygon
- Filled Polygon
- Curve

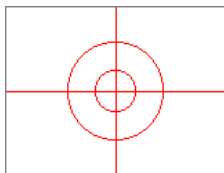
Measurement Template



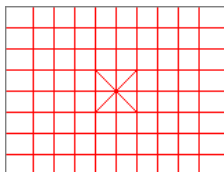
A movable crosshair



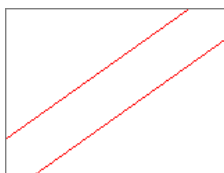
A sizable and movable rectangle with tolerance zone



Two sizable and movable circles



A sizable and movable grid



Two sizable and rotatable lines with tolerance zone

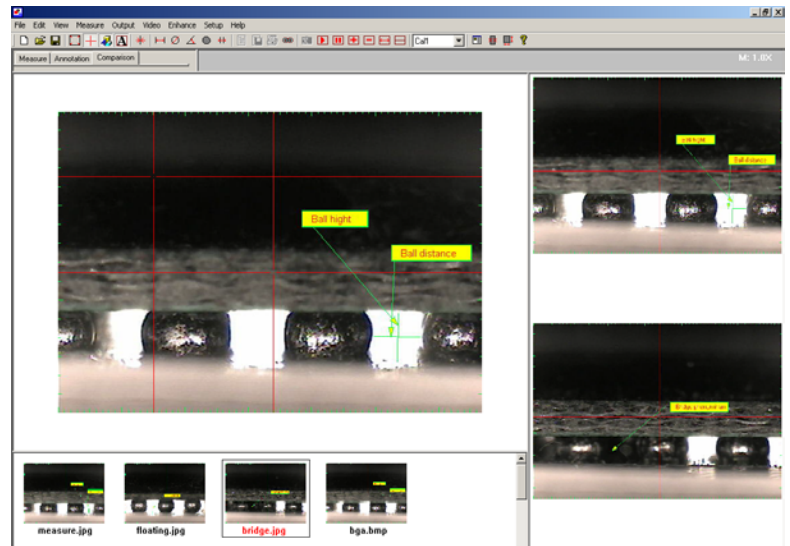


Image database and comparison

N	Name	Measure	Actual
1	Dist1	L Dist	0.1631
2	Dist2	L Dist	0.1640
3	Dist3	L Dist	0.1601
4	Dist4	L Dist	0.1670
5	Dist5	L Dist	0.1651
6	Dist6	L Dist	0.1660

N	Measure	Average	Min	Max	Range	Sigma
1	L Dist	0.1642	0.1601	0.1670	0.0069	0.0025

Measurement results

Measurement

Calibration

- Two Points
- Rectangle
- Square
- Circle

Measure

- Distance
- Circle
- Angle
- Area
- Width
- Length

Results

- Formatting
- Print
- Save
- Real-time to Spreadsheet