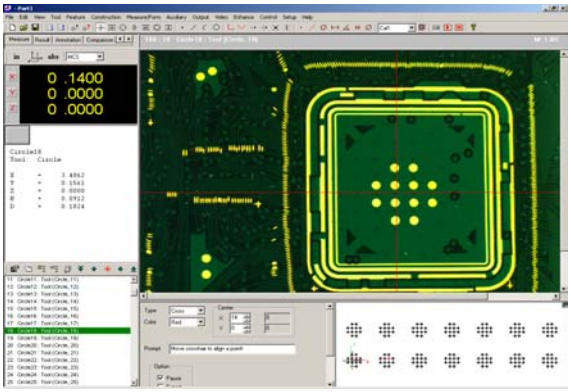
DP7-0906AV DCC Video Measuring System



DP7-0906AV DCC Video Measuring System is a high accuracy, 3-axis Direct Computer Controlled video based measuring system. This system can measure objects up to 9" in length. Included in this system: Programmable Motorized Zoom, NTSC Video Camera, Programmable Illumination, High Resolution Micro-Stepping Motion Controller, DMP-4000 Software.

Specification

Travel:	9" x 6" x 8" (X, Y, Z)
Base:	Granite.
Column:	Granite.
Resolution:	Glass Scale 0.001mm (XYZ).
Camera:	1/3" NTSC CCD.
Optics:	Optem 125C Motorized Zoom.
Back Light:	Programmable 150W.
Coaxial Light:	Programmable 150W.
Surface Light:	Four quadrature LED Ring Light.
Repeatability:	0.002mm.
Transmission:	Lead Screw on XYZ. Precision Recirculating Bearings.
Pitch:	30 Arc Seconds.
Yaw:	15 Arc Seconds
Operation:	3 Axes Joystick Control, Stepper Motor Drive.
Motion:	51200 Microstepping Per Revolution.
Software:	DMP-4000
OS:	Windows XP.
Computer:	Pentium 4 / Athlon XP.
Memory:	512MB.
Monitor:	17" LCD Flat Panel Display.

Options

Digital Camera

- Resolution Up To 5120 x 4096

Encoder

- Resolutions available in 1um, 0.5um and .1um.

Stage

- Glass top or solid tooling plate with threaded tooling holes.

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DMP4000 Features and Functions

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

View
- Zoom In
- Zoom Out
- Zoom Window
- Zoom All
- Zoom Viev
- Shift
- Rotate
- 3D Graphics

Help

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
- User Measure
- Create Result Buffer
- Add Result Buffer

Help
- Help
- About

Auxiliary

Video
- Freeze
- Live Image
- Stored Image
- Import Image
- Draw Text
- Show Edges
- Histogram
- Enlarge
- Maximize
- Select Image
- Overlay
- Subtract
- Switch
- Compare
- Copy Image

Setup
- System Setup
- Lock Tool X
- Lock Tool Y
- Calibration
- Home
- Move Abs
- Move Inc
- Password
- Stage Mapping

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

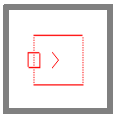
Feature
- Tool
- Relative Tool
- Point
- Line
- Arc
- Circle
- Define Feature
- User Feature
- Gauge Ball
- Gauge Diameter

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

Auxiliary
- Comment
- Prompt
- Calibrate X
- Calibrate Y
- Set Calibration
- Camera
- FormFit C.
- Send User C.
- Get User C.
- In Port
- Out Port

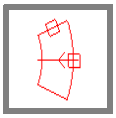
Image Tools

Crosshair Too: Manual define a single point.

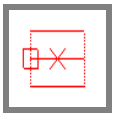


Edge Tool: Automatically find all points on an edge.

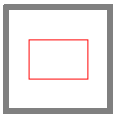
Circle Tool: Automatically find all points on a circle.



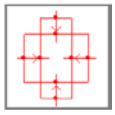
Arc Tool: Automatically find all points on a radius.



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



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

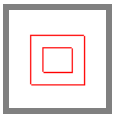


Slot Tool: Automatically find all points on four sides.

Ellipse Tool: Automatically find all points on an ellipse.

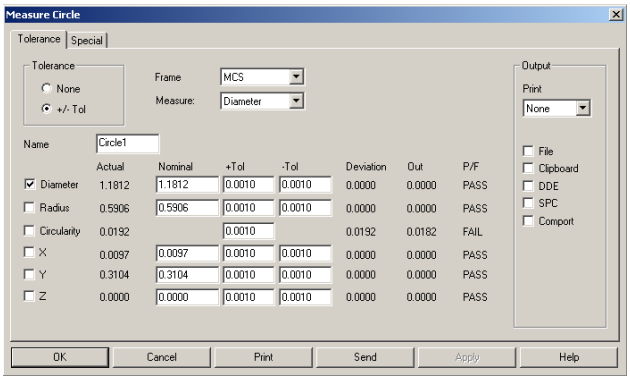
Cross Target: Automatically find a cross pattern.

Circle Target: Automatically find a circle pattern.



Rectangle Target: Automatically find a rectangle pattern.

Results



Output selection and tolerancing

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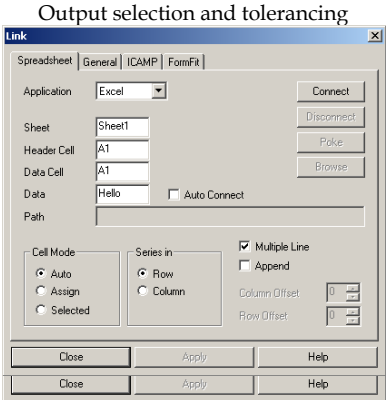

Seamless and real-time link to third party software.