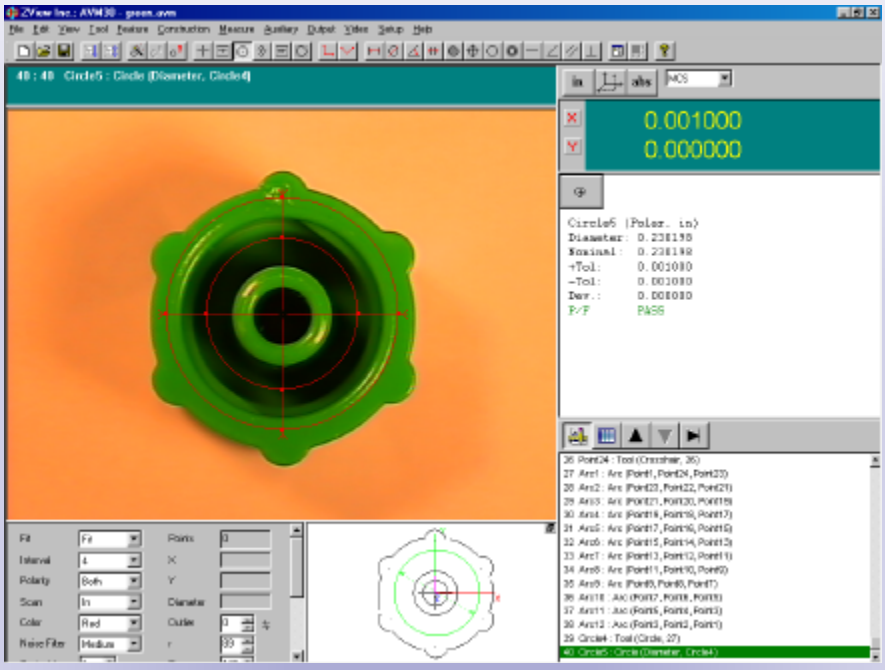
AVM30 Dimensional Measurement Software



Display status in Feature view.

Get instant results in DRO view.

Show live or bitmap image in Image view.

Show step results in Step view.

Setup tool parameters in Tool View

Show CAD-like graphics in Part view.

List part program in Program view.

The AVM30 software from ZView is a PC-based field of view dimensional measurement software that turns a conventional microscope into a powerful measurement system. The software uses the latest digital image processing technology to capture and analyze video images for dimensional measurement. It then compares the measurement to nominal values and tolerances to identify conditions of non-conformance. The AVM30 tolerance functions conform to ASME Y14.5M 1994.

The software is for Windows 95/98/ME, Windows NT 4.0 and Windows 2000/XP. It takes the advantage of the latest operating systems and provides you a familiar, graphical environment to complete your measurements. The software can be easily linked to other Windows applications, such as spreadsheets, SPC and best-fit packages.

The software is designed for image documentation, product inspection and quality control. The software provides a full range of functions for capture, measurement, archival, image comparison, image and result output. The software is easy to use and it will deliver reliable and repeatable precision measurement results on the hardware of your choice.

Main AVM30 Features

- Off-line or on-line Measurement. Stand alone or integrated into your applications.
- Multiple screen layouts.
- Advanced edge detection for accurate measurement.
- CAD import and export.
- Easy dimensional measurement with CAD-like graphics.
- Supports inch or millimeter units, Cartesian and Polar coordinates.
- Datum reference frame for alignment and tolerance.
- User-defined measurement calculations.
- User-defined functions.
- Up to 32000 points per feature.
- Save, open, run and edit part program capability.
- Group editing.
- Real-time linked to other applications, such as spreadsheets, SPC and best-fit.
- Flexible data format for post processing.
- Color or B/W image acquisition, archiving and retrieval.
- Live image or bitmap image processing.
- TWAIN support.
- Image annotation and comparison.
- International language support.
- On-line help.

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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

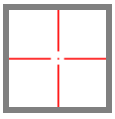
Construction
- Zero
- Frame
- Offset
- Project
- Mirror
- Rotate
- Parallel
- Intersect
- Bisect
- Perpendicular
- Create Variable
- Math

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

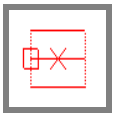
Annotation
- Color
- Line Width
- Text
- Line
- Arrow
- Circle
- Rectangle
- Ellipse
- Polygon
- Curve

Image Tools



Crosshair Too: Manual define a single point.

Circle Tool: Automatically find all points on a circle.



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

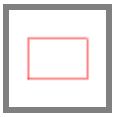
Slot Tool: Automatically find all points on four sides.

Cross Target: Automatically find a cross pattern.

Rectangle Target: Automatically find a rectangle pattern.

Edge Tool: Automatically find all points on an edge.

Arc Tool: Automatically find all points on a radius.

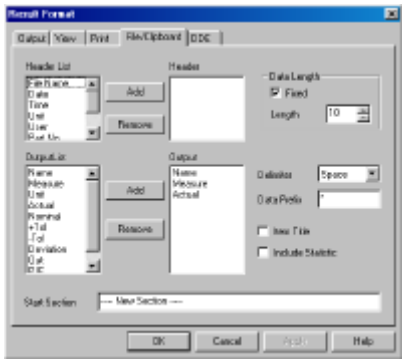


Area Tool: Automatically find the area and centroid of an area.

Ellipse Tool: Automatically find all points on an ellipse.

Circle Target: Automatically find a circle pattern.

Results



Flexible and indenpendent result formats for various outputs.

Seamless and real-time link to third party software.