# MetLogix
M2 Measuring Solution Features

Supporting popular measuring microscope and optical comparator systems worldwide.

Features & Benefits

- **Clean, Intuitive Design**

  The user interface design of the M2 software means you'll spend more time measuring and less time reading manuals. By combining a familiar user experience with current touch screen conventions, the M2 software can quickly be integrated into your process and accessible to a wide range of users.

- **Available in Horizontal or Vertical formats.**

  The M2 software interface is available for use in either portrait mode or landscape mode. This option provides maximum flexibility for your choice of display device or mounting system.

- **Support for Optical Edge or Crosshair measuring systems.**

  Gain access to many of the same powerful features, and intuitive measuring environment, whether using an optical edge equipped system or an externally generated crosshair device. Precise optical edge detection mechanisms provide accurate results as well as access to powerful, industry first, measurement functionality.

Your M2 is available in either a portrait or landscape format.

‹ MetLogix ›
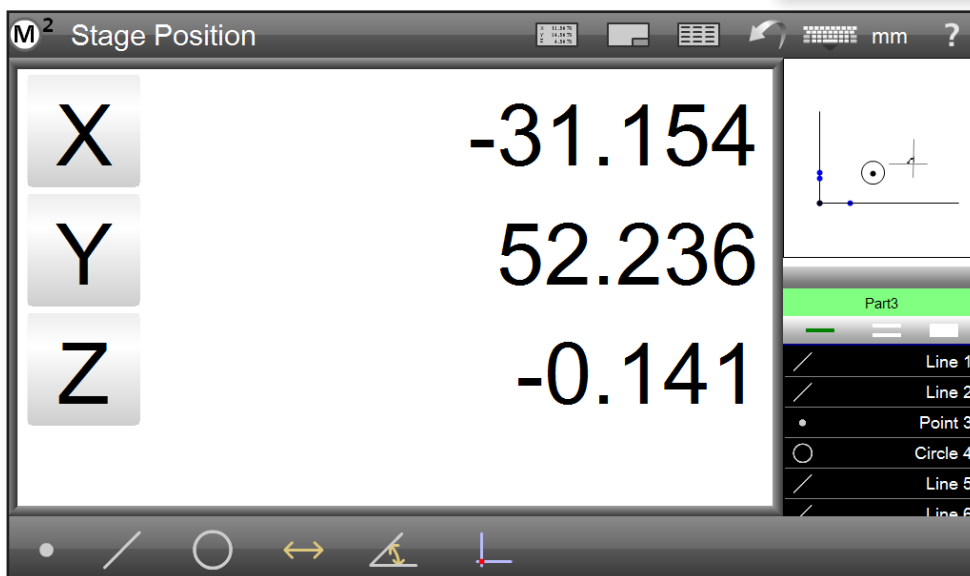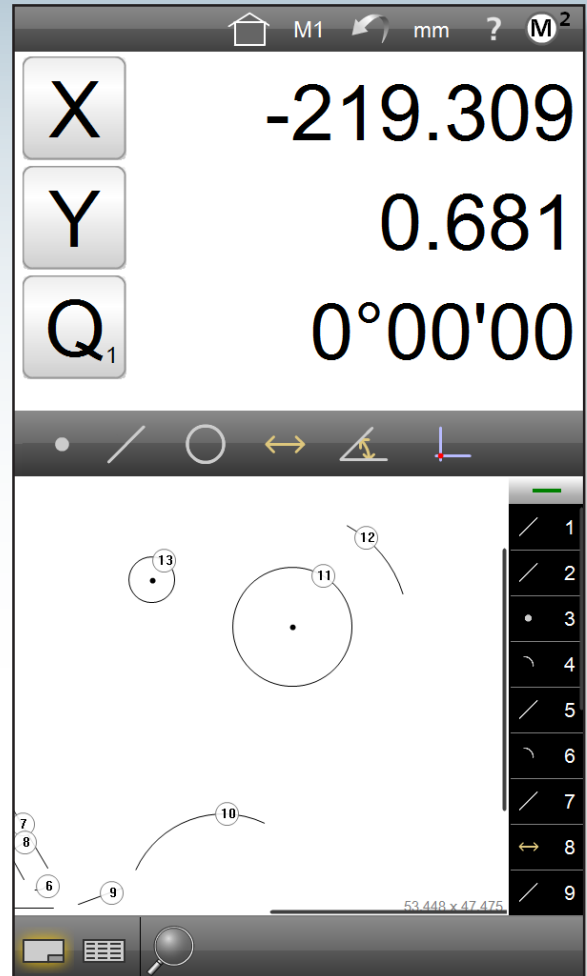
- **Designed for Multi-Touch software control.**

  In addition to the conventional mouse interface, expanded Multi-Touch logic allows for versatile pan and zoom of the active part view. Increase the efficiency of feature construction, feature data manipulation, and reporting tasks with a simple *pinch* zoom, *swipe* pan, or double click.
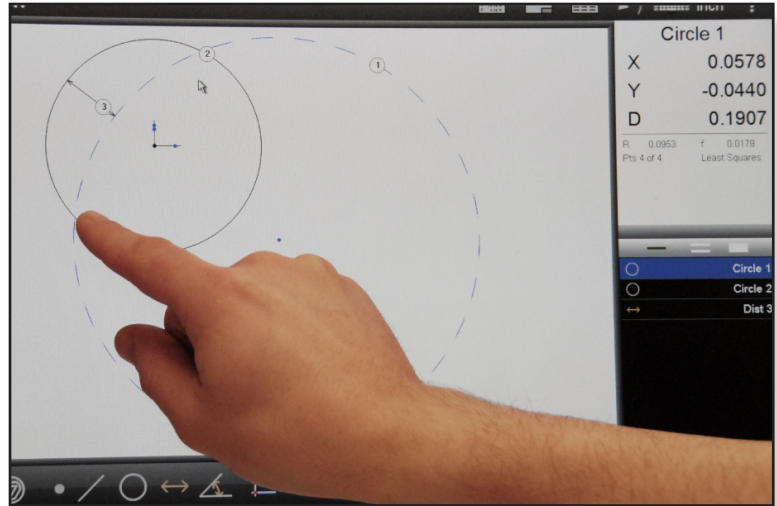
Use popluar navigation moves including pinch zoom and swipe pan to increase feature construction efficiency.

- **Advanced crosshair probe toolbox.**

  For Optical Edge enabled systems, both "simple" and "auto edge" crosshair probes are available. The "auto edge" probe captures points on edges automatically upon crossing. The M2's EdgeLogic™ system (Optical Edge enabled systems only) enables gesture driven control of start and end measurement commands. Start and finish measurements quickly, without the need for direct software interaction.
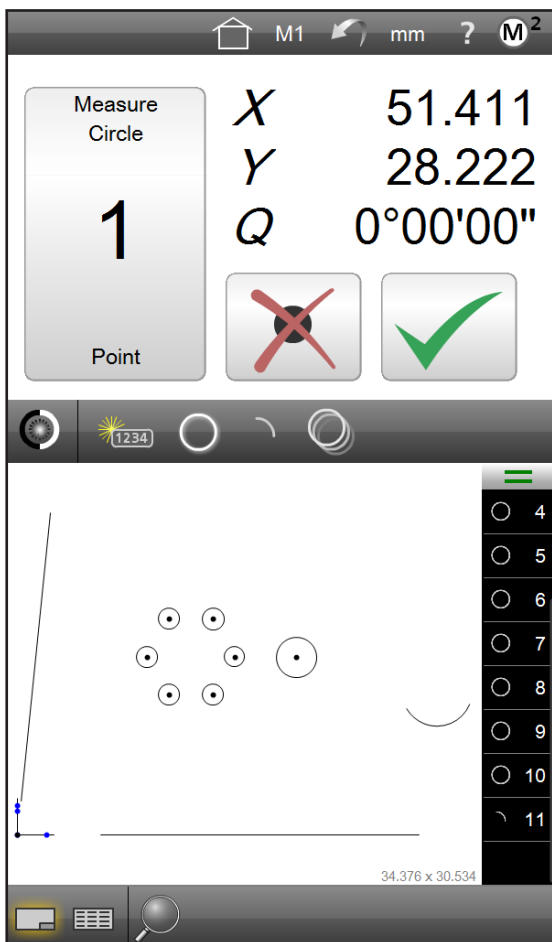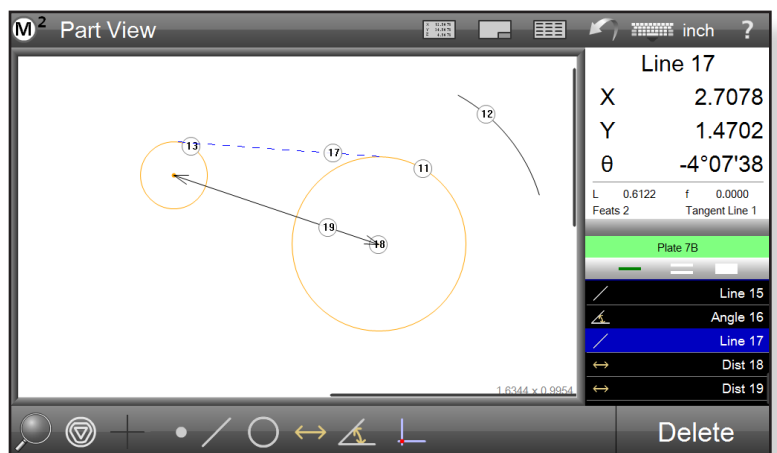

The M2's EdgeLogic™ system (Optical Edge enabled systems only) enables gesture driven control of start and end measurement commands.

- **Graphics-based "Part View" constructions.**

  Generate popular construction types, like Distances and Tangent Lines, from within the graphical part view itself. Constructions with multiple sub-types can be toggled quickly with the change feature type command.

 Supported construction types include:

  - Average
  - Intersections
  - Tangent Line(s)
  - Angle Compliments
  - Offset Skew Lines
  - Mid/Center Point(s)
  - Shortest Distance
  - Gage Circle(s)
  - Perpendicular/Parallel Line(s)
  - End Point(s)
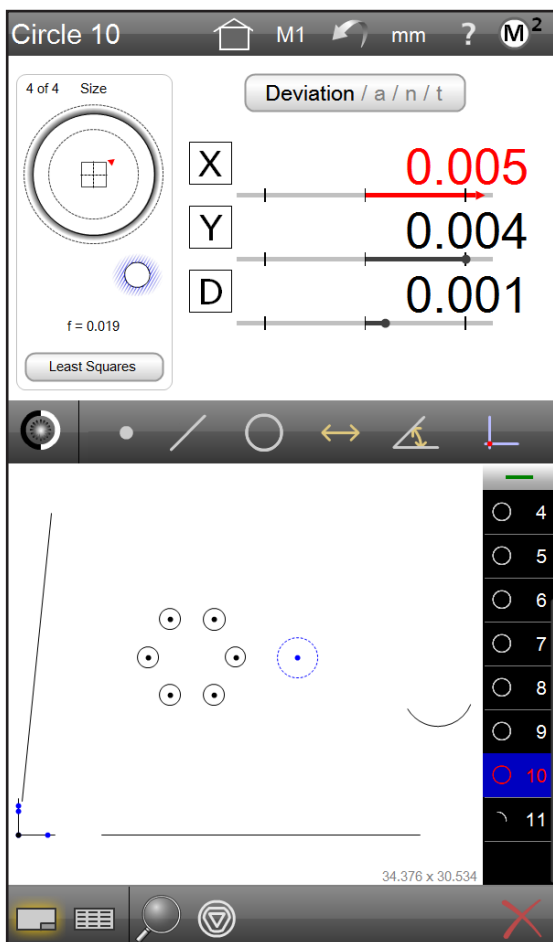 - Farthest Distance
  - Bolt Circle

Generate poplular construction types lincluding Distance and Tangent Lines from with the graphical part view.

- **Feature Detail Graphics.**
  Individual feature views provide informative drawings displaying point cloud distributions, as well as nominal deviations, and tolerance results. Scroll through your measured features list from this view for a feature by feature display of Actual, Nominal, Tolerance, and Deviation results. Set the desired data fit type from the "Actual" screen using the "fit toggle" button.
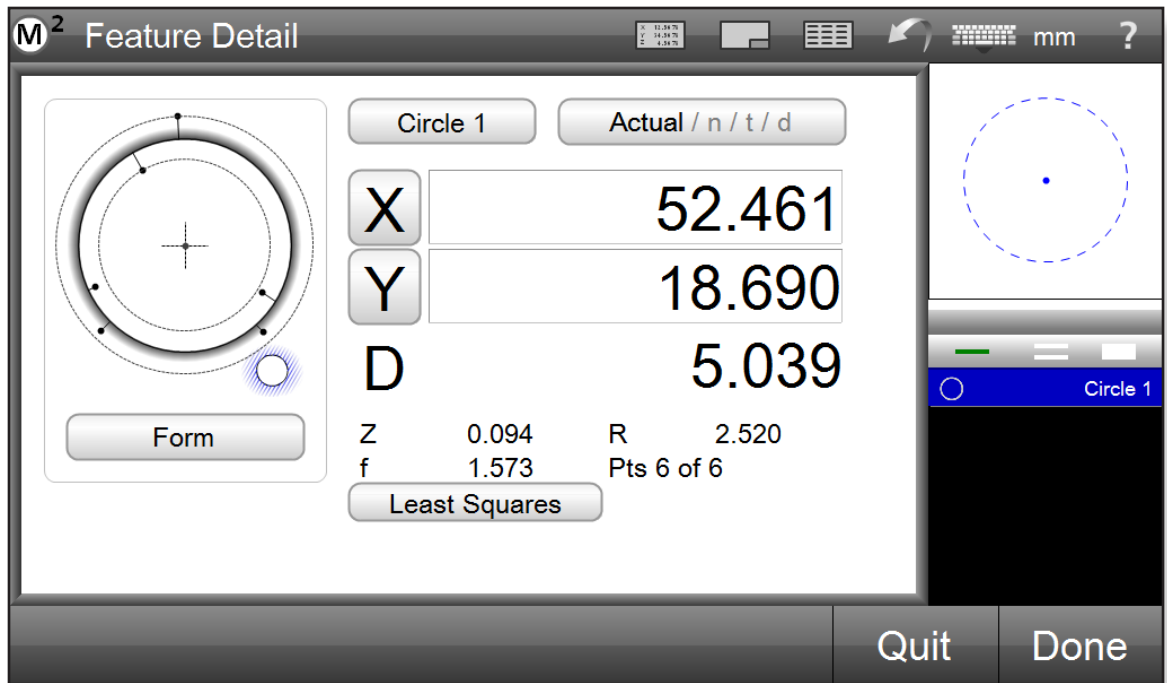
Scroll through your measured features list from this view for a feature by feature display of Actual, Nominal, Tolerance, Deviation, and Data Fit Type information.

- **Geometric tolerancing.**
  You may measure features, set nominals, apply tolerances and view deviation results with only a few quick clicks. You may also apply a variety of popular tolerance types to features in the standard "feature-to-feature" fashion, or utilize the "place tolerancing" system for applications where tolerances are specified in a block tolerance style call out. For these cases the M2 software let's you enter and apply universal tolerance values according to your feature resolution groupings.

  Supported tolerances include:
  - X/Y/Z Positional
  - Diameter/Radius/Length/Width Size
  - Theta (Angle)
  - Form
  - Parallelism
  - Angularity
  - True Position (LMC/MMC Modifiers)
  - Straightness
  - Perpendicularity
  - Roundness
  - Concentricity
  - Runout

Measure features, set nominals, apply tolerances and view deviation results quickly and easily.
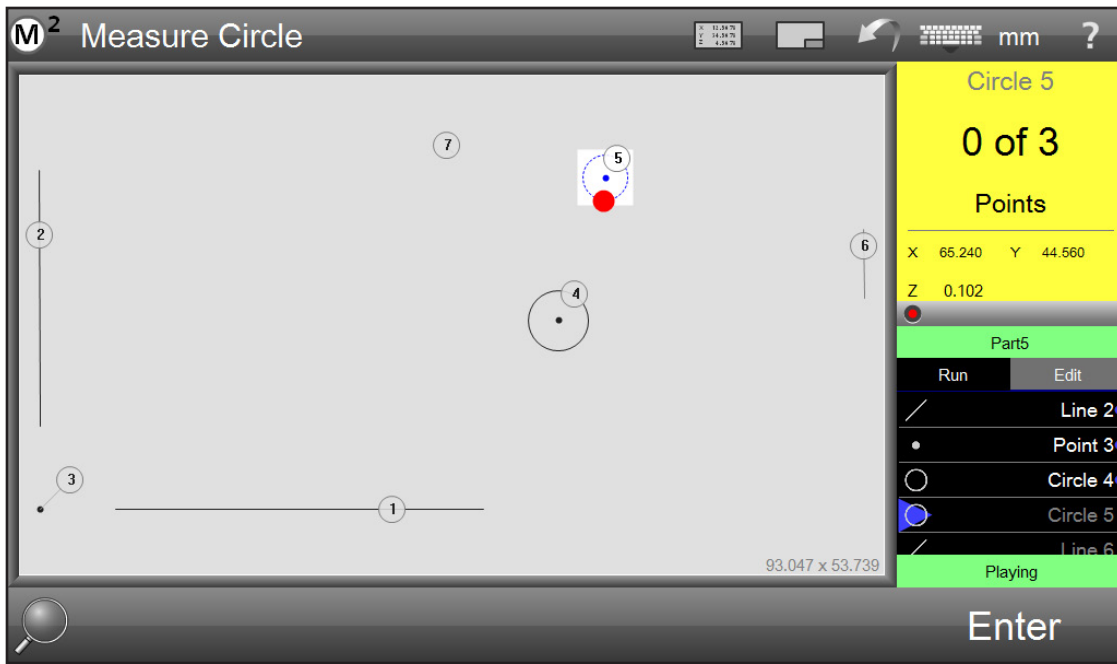
Part programs and play-back.

Playback or edit groups of measured, constructed, and created features from a saved part program file. Part program files, when loaded, will prepare the M2 software to repeat a sequence of feature measurement steps, printed reports, and exported measurement data. The playback guidance mechanism provides helpful on-screen instruction for successful playback of your part programs.

Playback or edit groups of measured, constructed and created features from your saved part program file.

Reports.

Flexibility for report contents and formatting allows for full cus-tomization of the data format, header information, and header and footer graphics. Part view graphics, time and date stamps, and operator information can all be included for any report type. Reports can be viewed, printed, or exported at the conclusion of a single inspection routine, or they can be included in a part program to support repetitive or automated measurement and reporting. Reports can be printed as hard copies to standard Windows com-patible printers, or exported as data files in popular file formats.

Report data formats include:
- Standard Report
- Tolerance
- CSV
- European
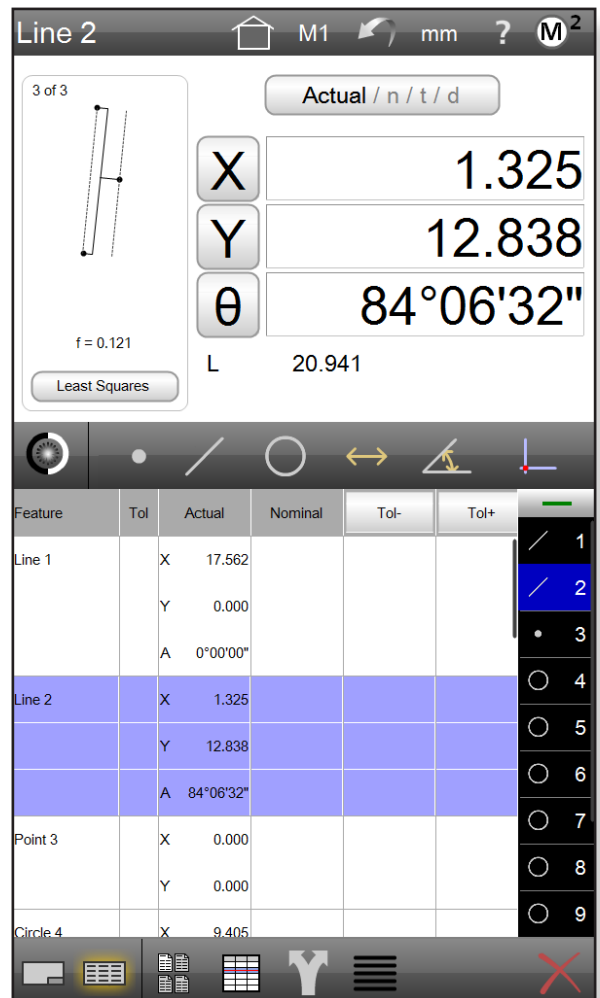
Reports may be viewed, printed or exported in popular file formats.

- **Machine Integration.**
  Ask your MetLogix representative about a wide variety of encoder interface technologies, camera types, and light control hardware supported in the M3 system.

- **Support for all current industry standard software methodologies for Stage and Camera calibration.**
  Robust and reliable machine/camera calibration can be achieved using popular machine and video correction methods. Linear Error Correction(LEC), Segmented Linear Correction(SLEC), Non-Linear Error Correction(NLEC), Orthogonality, Pixel Size, Camera Skew, Parcentricity, and Field of View).

- **Industry leading Operating System platform.**
  The Windows® 7 operating system represents the current enterprise solution for computer software operating systems. You gain the performance and reliability of a globally recognized software solution as part of you measuring machine package.

Help and Resources.
Please visit the support section at www.metlogix.com for access to Metlogix product documentation.

Watch tutorial videos for popular M3 functions at http://www.youtube.com/user/Metlogix/feed.

Join the discussion on Facbook, search "Metlogix".

MetLogix M Series Features Matrix

Feature	M2 Series	M3 Series
Optical Edge Detection	■	■
Video Edge Detection		■
Advanced Probe Group		■
Geometric Functions	■	■
Multi-UCS Datuming		■
Tolerancing	■	■
Data Export/Reporting	■	■
User Account Control	■	■
Part View Display	■	■
Feature Annotation	■	■
Video Image Archiving		■
Image Markup		■
Multi-Language Support	■	■
3/4 Axis Digital Readout	■	■

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