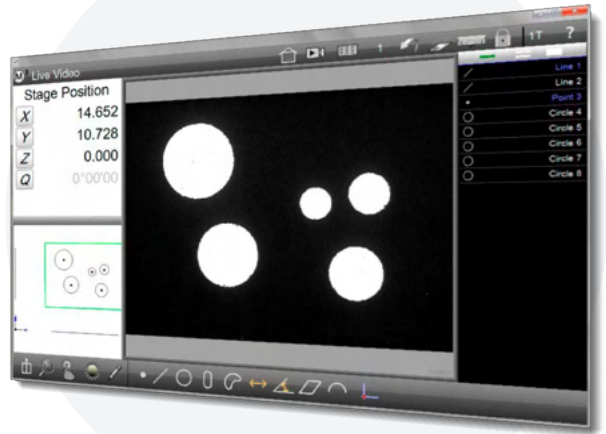# MetLogix

The M3
Digital Comparator

DXF based overlay part inspection made simple!

- ✓ Supporting Touchscreen gesture controls.

- ✓ Simple manipulation of DXF overlays for *Go-no-Go* inspection.

- ✓ Cutting-edge user interface thats clean and intuitive.

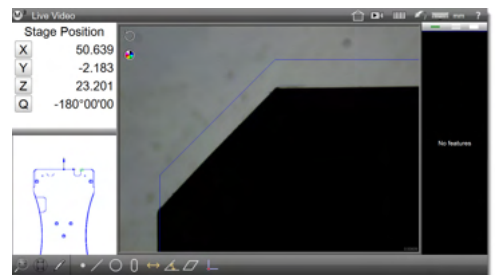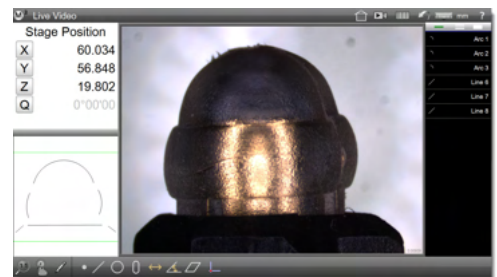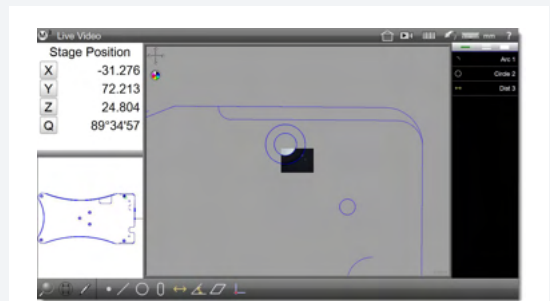## Supports Encoded and Fixed Stages

The Digital Comparator (DC) software option pack is available for both encoded (movable) and fixed stage systems. All of the new features and functions included with the DC software option are available regardless of system type.

Import DXF files for image overlay

The new DXF file import system allows for the display of DXF files, as an overlay on the live video image. Translate, rotate and change the color of your DXF import for fit against the live video image.
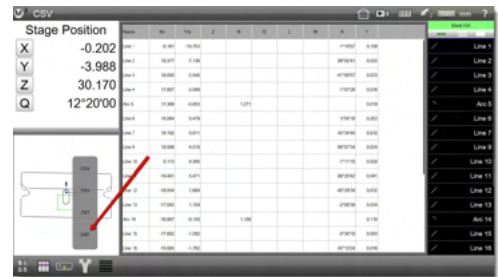
Display error whiskers for the portions of the live video image that do not fall within the tolerance zone defined within the original DXF file.

Use the measure distance and measure angle functions to quickly calculate the positional and angular offset between your DXF file and the part coordinate system established within the M3 FOV software.
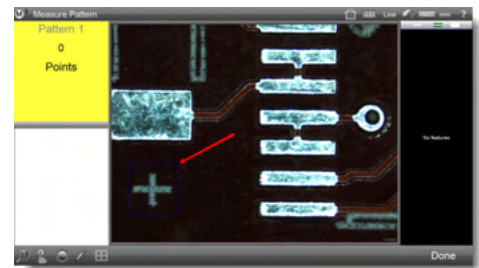
![MetLogix]

Features Export to DXF

Features measured, constructed, or created within the M3 DC software can be exported to the industry standard DXF file format for use with other software tools.
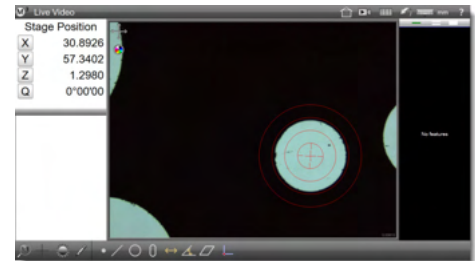

Pattern Teach and Recognition

Teach specific image patterns for automatic detection in program playback. Increase the robustness and efficiency of program playback through the *soft fixture* part positioning system using the pattern detection mechanism.
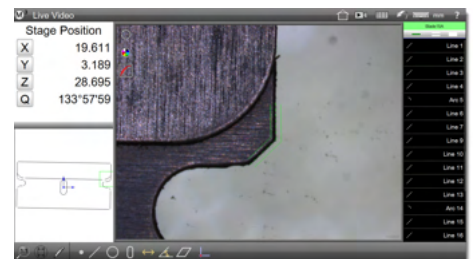

Custom DXF Crosshairs

Design your own DXF based crosshairs graphic for use in the M3 DC software. Use the custom crosshairs to measure features by translating or rotating the on-screen crosshairs. A color toggle button is available to quickly change the crosshairs color to accommodate various image and lighting conditions.

Feature-Based Video Overlays

Use the existing feature creation mechanism to create on-screen video chart tools for quick comparison of measured features to a predefined tolerance zone. The ability to create circle, line, slot, rectangle, and angle overlay features provides the flexibility to support a wide range of applications.
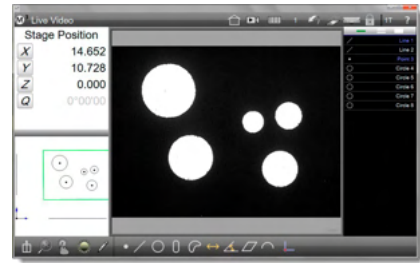
Supported overlay types:

- ✓ Circle
- ✓ Rectangle
- ✓ Slot
- ✓ Angle
- ✓ Line

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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.

Supports Industry Standard Stage and Camera Software Calibration Methodologies

Robust and reliable machine and 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® 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.

MetLogix M Series Features Matrix	M1 Series	M2 Series	M3 Series
Optical edge detection	✓	✓	✓
Geometric functions	✓	✓	✓
XY, XYZ or XYQ axis support	✓	✓	✓
Data Reporting/Export	✓	✓	✓
Partview Display		✓	✓
Part programing and playback		✓	✓
Tolerancing		✓	✓
Feature annotation		✓	✓
Video edge detection			✓
Video image archive			✓
Image markup			✓

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Help and Resources

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

Watch tutorial videos for popular Mx functions at http://www.youtube.com/metlogix

Join the discussion on Facebook, search "Metlogix".

Contacts

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