

WHAT'S NEW IN CMM-Manager - 3.8



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Nikon Metrology, Inc.

Nikon Metrology is pleased to announce the release of CMM-Manager version 3.8. This release adds the following enhancements:

- Nikon Nexiv VMZ-R
 - Type 1, 2 & 3
 - VGA & XGA Camera
 - TTL Scan Laser Support
 - Movable Dual Segment Ring Light
- 64-bit Application
- New VBScript Engine
 - Microsoft Active Scripting
- Vision Measurement
 - Pattern Recognition with rotation
 - Light Intensity Calibration
 - Vision Measurement Error Recovery
 - EDF and Stitching
 - Easy access to Vision and Laser AF settings
 - Resizable Live Video Window
- I++ DME / UCC Server
 - Supports UCC Suite 5.4
 - Deva Camera Probe support
 - Star Probe Index
 - I++ Sync / X Path
- General
 - Added 2D Cloud-to-Curve Alignment
 - Leapfrog now available on DCC systems
 - Probe Compensation for 2D Tactile Scan
 - Faster DDE and Excel output



Nikon Nexiv VMZ-R

- Supports Nikon Nexiv VMZ-R video measuring systems in addition to iNexiv VMA
- Unified CAD capable software for CMMs, portable arms, and Nikon video measurement systems
- Supported hardware configurations:
 - Type 1, 2 & 3 optics
 - VGA & XGA sensor
 - TTL scanning Laser
 - Movable dual segmented ring light
 - Stage size from 30cm x 20cm to 65cm x 55cm



64-bit Application

- 32-bit and 64-bit builds available for respective Windows OS
- 64-bit wrapper for 32-bit devices / drivers

Microsoft Active Scripting VBScript Engine

- Replaced Cypress Enable VBScript Engine with modern Microsoft Active Scripting Engine
- Add custom functionality to CMM-Manager program
- Easy to use industry standardized Scripting Engine



Vision Measurement

- Pattern Recognition with 360° rotation
 - Search for Trained Images using Pattern Recognition including full 360° rotation
 - Locate measurement work-piece with less concern of physical part rotation and position
- Calibrate and automatically adjust lighting intensity
 - yields consistent edge threshold amongst several video measurement systems
- Automatically skip individual measurements if edge judgement or pattern recognition fails
 - Capture failed measurement as .PNG image
- Collect Extended Depth of Focus (EDF) and Stitched images for use in Nikon Imaging Express
- Quick access to Vision and Laser AF settings by new Ribbon Tab button
- Resizable Live Video Window
 - Enables further customization of UI Layout allowing for display of large format sensors on single PC monitor or expanded view on secondary monitor



I++ DME / UCC Server

- Added support for Renishaw UCC Suite / Server version 5.4
- Deva Camera fully supported with I++ / UCC Controller
- Improved I++ Sync for DCC CMM with Manual Probe
- Star Probe Configuration matches UCC Server convention

Alignment Enhancements

- Added Cloud-to-Curve Alignment
 - Enables best-fit of 2D CAD Curve to measured cloud data points
 - Useful for Vision and other 2D measurement applications
- Leap Frog enabled for DCC systems
 - Previously only available for portable systems like articulated arm
 - Useful for hybrid systems like zCat portable DCC CMM

2D Point Cloud Scanning

- Probe Compensation for 2D scanning tactile measurement
 - Eliminate extra steps for reverse engineer workflow

DDE / Excel Report Output

- Increased speed for DDE output of large data sets – i.e. save point cloud to Excel

Language Support:

- English, Chinese, French, German, Japanese, Polish, Spanish, Czech and Italian

Bug Fixes:

- Fixed SP25 -5 module calibration error for LK DCC Controller
- Resolved issue preventing accurate temperature comp value after initial connection
- Fixed zCat Tip Change issue
- Fixed DDE / Excel export and preview issues
- Improved CAD Teach Vision Round Slot Arc Tool location
- Fixed issues with latest (4.0) Newmark rotary device drivers
- Prevent software crash when using Pattern Recognition with no trained image
- Resolved Pattern Recognition returning match with score lower than specified

PC Requirements:

- CPU ----- Intel i7 / AMD FX 3.0 GHz or above
- OS ----- 32 / 64 bit - Windows 7, 8, 10 – Pro, Ultimate, or Enterprise
- Disc / Ram ----- 500 GB / 8 GB or more recommended
- Graphics Card ----- 1920 x 1080 (v3.0+ includes dual monitor support)
- PCI Slot ----- Mini tower to accommodate full height PCI card if needed