

Iris M Platform Software Updates - Feature Lists

v1.0 - Sep 2016

- Motion Acquisition
- Motion Amplification

v1.1 - Dec 2016

Motion Amplification

- Displacement/frequency can be measured

v1.3 - March 2017

Motion Amplification

- Stabilization

v1.4 - May 2017

Motion Amplification

- Orbit capability

v2.0 - Sep 2017

Motion Amplification

- Freq-based Filtering

v2.1 - Dec 2017

Motion Explorer (New Application)

Motion Acquisition:

- Rotate Image
- Multiple Distance Measurements

Motion Amplification

- Region Based Amplification

v2.2 - May 2018

Motion Explorer

- Bulk filter recordings

Motion Amplification

- FFT only portion of waveform / dynamic fft update

v2.3 - Sep 2018

Motion Studio (New Application)

Motion Acquisition

- Toolbar above image centered and locked

Motion Amplification

- MP4 export capabilities more robust
- Annotations capabilities reworked to be generally consistent with current Microsoft Office

v2.4 - Dec 2018

Motion Acquisition

- MX camera support

v2.5 - Aug 2019

Motion Explorer

- Batch amplification within a Collection

Motion Acquisition

- Shaft Speed Detection
- Shaft Inspection
- High Density

Motion Amplification

- Additional export options
 - o Quality / bit rate (L, M, H)
 - o Output frame size (SD, HD, Full HD)
- Trim duration of recording
- Calculate/display relative phase
- Shaft Edge Calculations (Horiz and Vert)

Iris Platform Software Updates - Feature Lists

v3.0 - May 2020

Motion Acquisition

- Live Motion Amplification

Motion Amplification

- Motion Vectors
- Transient ROI / Feature Track
- Transient Motion Amplification
- Top Frequency Filtering
- Extreme Amplification
- Motion Map

v3.1 - Nov 2020

Motion Acquisition:

- Triggering
- Live ROI
- Long Term Record
- Thresholding
- Photron and Vision

Research Cameras

IRIS CM (New System Add on)

- Major Iris CM Feature Additions

Motion Amplification:

- HDR (High Density Recording)

v3.2 - April 2021

Motion Acquisition:

- Colour Camera (System Add On)
- Tac Sync Recordings (System Add On)

Motion Amplification:

- Phase Map
- Stabilization Improvement
- Difference Plots
- New Annotations: Logo, Ruler and Protractor

Motion Studio:

- Audio Recordings

v3.3 - September 2021

Motion Acquisition:

- IRIS M Acquisition Assistant

Motion Amplification:

- Historical Data Analysis
- IRIS CM Measurement Historization
- IRIS CM Complex triggers

v3.4 - Feb /Sept 2022

Motion Acquisition:

- 2 Camera IRIS CM (System Add On)
- Iris M Traveler (New System or Add On)
- Iris M + Stereo Vision (System Add On)

- IRIS CM External Network Drive Sync
- Tablet Mode

Motion Amplification:

- Tablet Mode
- 3D Measurement Acquisitions
- Z-Axis Displacement Calculations

Iris Platform Software Updates - Feature Lists

v3.5 - Nov 2022

Motion Acquisition

- Default Distance Pin
- Distance Calculator from Object in Image
- Grid Movement & Re-size
- Timer Acquisition

Motion Amplification

- Specify X or Y Component of Motion Vector
- Vectors for Horizontal and Vertical Shaft
- Upper & Lower Limits on Vib Plots
- Create multiple ROI then calculate all at once
- Auto Label MP4, Playback Speed & MA level
- Build Waterfall Spectrum from Waveform
- Motion Phase / Map Regions
- Noise reduction

Motion Studio

- Composite Fade In / Out
- Line Scan Before & After MA Shots

Motion Explorer

- File Extension, Easier Managing
- Columns, Easier Managing

v3.6 - Feb- June 2023

Motion Acquisition

Modal Amplified™ Released

- Modal Testing for Motion Amplification®

Motion Studio

Autosave of Playback Content

- Audio Editor Released

v3.7 - Sept 2023

Motion Explorer

- Route Based Data Collection
- Copy Paste ROI across data
- Import RAW video from

Fastec Cameras

Motion Acquisition

- Camera Overlay Mode

Motion Amplification:

- Zoom Box Annotations
- Fixed ROI improvements

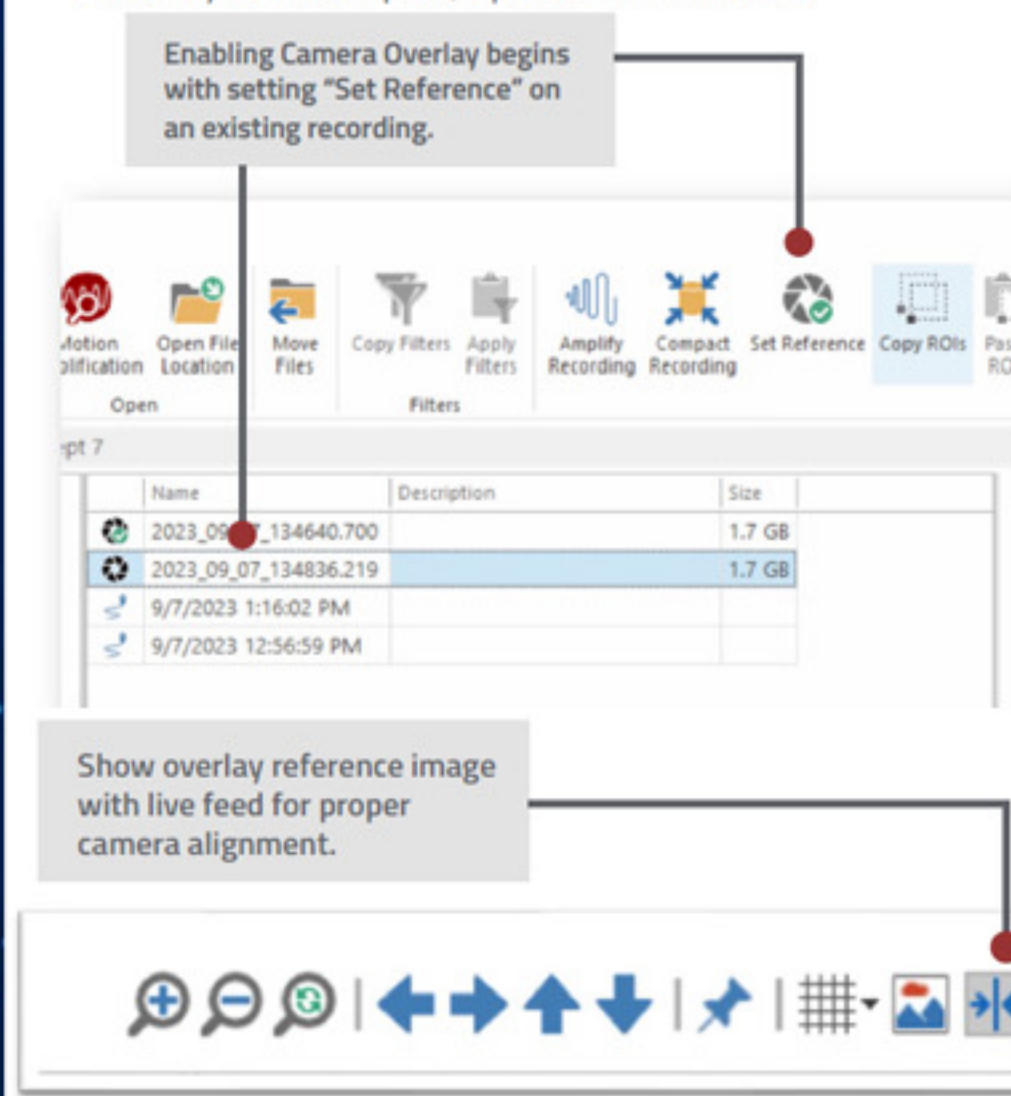
Motion Studio:

- Title Slide as Template

Repetitive Measurement Workflow

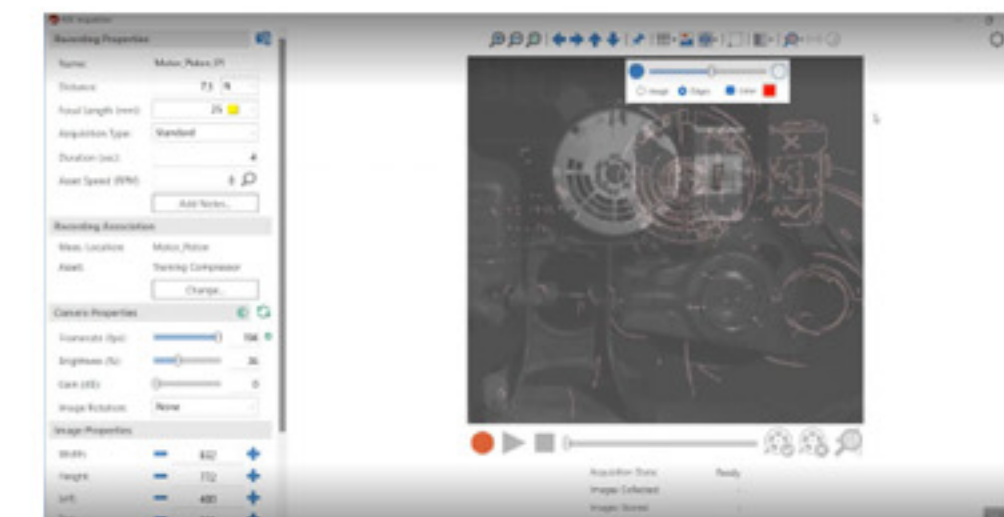
Two methodologies:

- Traditional **Route-based** Measurement for asset condition measurement
- Test and Measurement Experiments, where camera remains stationary over subsequent, repetitive measurements



Camera Overlay Mode

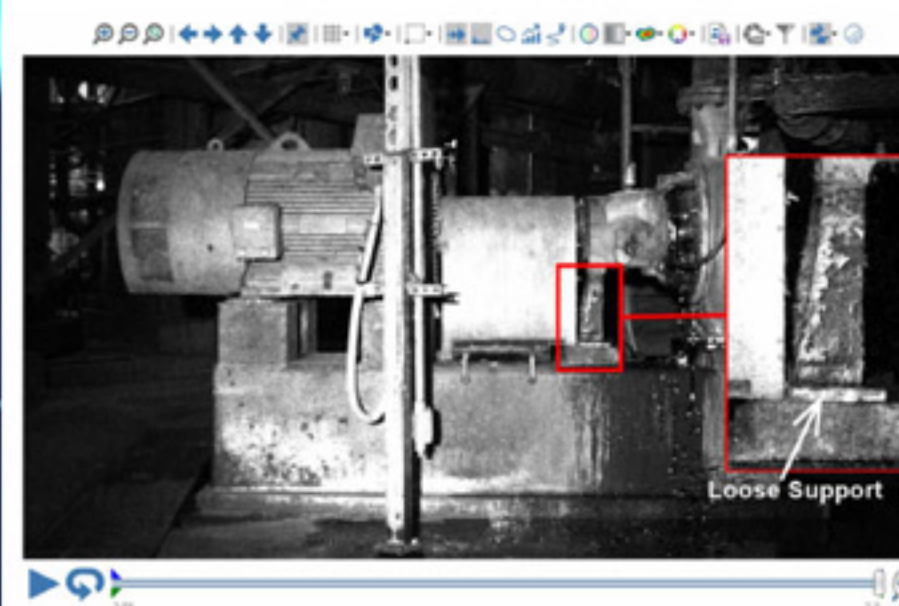
The v3.7 software utilizes a Camera Overlay Mode and Route-based ROI Finding Tool to ensure the camera field of view is consistent over multiple measurements. This helps users position the camera and tripod in an identical position for repeatable measurements. The software manages minor discrepancies using Route-based ROI Finding technology to ensure ROIs measure the same object every time.



Zoom Box Annotation

New Zoom Box annotation places emphasis on critical features within a recording without needing to edit / crop in Motion Studio or re-capture a recording with higher focal length lenses.

This empowers Users to communicate key information faster and more concisely within Motion Amplification®. Content inside in the Zoom Box is synchronized with recording playback and carries over when exported to MP4.



ROI Improvements

Users can now create fixed- sized ROIs for data consistency while utilizing Ctrl+click for rapid placement. Ability to name and label ROIs for improved reporting, easily copy ROIs within a recording and across .rdi files. ROIs drawn during Acquisition now carry into Motion Amplification® for analysis, saving users time and effort.

