

IRIS M™

Enhancing Vision

Powered by **Motion Amplification®**

▶ **THE WORLD'S FIRST NON-CONTACT MOTION AMPLIFICATION® SOFTWARE PLATFORM**

Iris M™ from RDI Technologies™ is the first device of its kind that allows users to see - in real time - motion that is invisible to the human eye. Our proprietary Motion Amplification® software lets you see the invisible.

The **Iris M** platform from RDI Technologies monitors critical manufacturing operations, processes, quality and structural components that affect plant reliability and productivity. **Iris M** is a unique, revolutionary technology that detects subtle movement and converts that movement to a level visible with the naked eye. By turning every pixel in the camera into a sensor, **Iris M** takes millions of measurements in a fraction of a second. And it does this with no physical connection to your machinery or equipment.



The **Iris M** technology platform delivers real-time video to users, enabling them to make instant decisions about manufacturing operations based on real data. The ability to visualize the entire process while retaining component-level analysis makes **Iris M** the perfect tool for screening, fault finding, baseline or commissioning and pre/post repairs or retrofits. Every step of the way, **Iris M** provides specific information about the process or issues at the root of a quality problem.

Iris M's proprietary **Motion Amplification®** software produces easy to understand videos of the actual movement across your equipment or machinery which enables far more effective communication between technical and nontechnical personnel – which enhances decision-making. Videos from the **Iris M** platform are produced within seconds of data collection. **In other words, Iris M saves you time and money.**



RDI
TECHNOLOGIES

SEEING IS
BELIEVING

10024 Investment Drive #150, Knoxville, TN 37932
www.rditechnologies.com



IRIS M™

Enhancing Vision

Powered by Motion Amplification®

▶ SEE IT. SHOW IT. FIX IT.



Specification

Motion Amplification®	
Lenses	6mm, 12mm, 25mm, 50mm, 100mm
Acquisition System	i7 processor, 16GB RAM, 500GB SSD, lightweight, MIL-STD-810G standard drop protection, 3 yr accidental damage protection*
Sample Rate	180 fps in HD, up to 1,300 fps at reduced resolution
Frequency Range	Up to 5,400 CPM @ 180 fps Maximum: 39,000 CPM @ 1,300 fps with reduced resolution
Minimum Displacement	<0.01 mils (0.25 µm) at 3.3 ft (1m) with 50mm lens, 0.005 mils (125 nm) at close focus
Motion Amplification® Factor	1-50x
Vibration Pads	95% impulse absorption
Tripod	Professional Grade with pistol grip
Case	Watertight, dustproof, crushproof
USB3 Cable Length	9.84 ft. (3 m)
Optional Accessory Kit	LED light: 23,000 lux @ 1 m, Li-ion light battery, light stand, extra vibration pads, computer stand

Features

Motion Amplification®	
Export Format	HD MP4 at 1920x1080 resolution
Video Annotations	Text, shape and annotations overlays with export to video
Playback/Export Video Speeds	4x to 1/20th full speed
Grid Overlay	Configurable grid overlay (size, color)
Export Options	Side-by-side playback of original and Motion Amplification® video
Logo Export	Ability to overlay custom logo onto exported videos
Image Zoom	Exported video shows only zoomed region
Frequency Filtering	Bandpass, Bandstop, Lowpass and Highpass Filtering of Time Waveform and video
Stabilization	Entire frame and region based image stabilization
Time Waveforms, Spectra, and Orbits	Unlimited number of regions can be drawn in the video to measure displacement All measurements are simultaneous
Waveform Export	Export waveforms to .csv file



RDI
TECHNOLOGIES

SEEING IS
BELIEVING

10024 Investment Drive #150, Knoxville, TN 37932
www.rditechnologies.com