

# IRIS MX™

Enhancing Vision

## ► VISUALIZE AND MEASURE A FULL SPECTRUM OF FAULTS

The **Iris MX™** from RDI Technologies™ expands upon its revolutionary **Iris M™** product to open up the world of **Motion Amplification®** to high speed applications. Like the **Iris M**, the **Iris MX** utilizes the millions of pixels in today's modern cameras to measure deflection, displacement, movement, and vibration not visible to the human eye. The **Iris M** covers a wide range of faults in machine condition monitoring but with the addition of the **Iris MX**, we have you covered no matter what the speed of your machine.



- 1,400 frames per second in HD resolution
- Available as an add-on with plug and play compatibility for current Iris M users
- For new customers the Iris MX includes all Iris M hardware and software to cover the full frequency range with ease
- Visualize the entire process while retaining component level analysis
- Near real-time processing enables users to make instant decisions about manufacturing operations
- Quickly determine the root cause and communicate it in an easy to understand video



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TECHNOLOGIES

SEEING IS  
BELIEVING

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Enhancing Vision



► SEE IT. SHOW IT. FIX IT.



## Specification

### Motion Amplification®

Available Lenses	6mm, 12mm, 25mm, 50mm, 100mm
Acquisition System	i7 processor, 16 GB RAM, 500 GB SSD, lightweight, MIL-STD-810G standard drop protection, 3 yr accidental damage protection*
Sample Rate	<b>Iris M:</b> 180 fps in HD, up to 1,300 fps at reduced resolution <b>Iris MX:</b> 1,400 fps in HD up to 29,000 fps at reduced resolution
Frequency Range	<b>Iris M:</b> Up to 5,400 CPM @ 180 fps Maximum 39,000 CPM @ 1,300 fps with reduced resolution <b>Iris MX:</b> 42,000 CPM @ 1,400 fps Maximum 870,000 CPM @ 29,000 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
Ethernet Gigabyte Cable with USB Adapter	9.84 ft (3m)
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 annotation overlays with export to video
Playback/Export Video Speeds	4x full speed to 1 fps
Grid Overlay	Configurable grid overlay (size, color)
Export Options	Side-by-side playback of original and Motion Amplification® video or Motion Amplification® video only
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



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