RDI TECHNOLOGIES

IRIS◉MA™

Real-Time Motion. Instant Clarity.

FROM INVISIBLE VIBRATION TO UNDENIABLE EVIDENCE—
SEE IT LIVE, SOLVE IT FAST.

The **IRIS MA™** is the world's first industrial camera with **Live Motion Amplification®**, giving you the power to see, measure and solve your toughest problems on the spot. Designed to capture every detail of motion with speed, precision, and reliability, the IRIS MA™ transforms how teams perform vibration analysis by delivering real-time, high-speed data that reveals faults traditional sensors often miss.

Why IRIS MA?

- **Clear, Intuitive Insights** – Accessible to every level of technician with no advanced training required.
- **Instant Analysis** – Onboard processing and 40 Gbps transfer keep workflows seamless.
- **Rugged & Reliable** – Built for tough industrial environments.
- **Faster Decisions** – Get precise data to diagnose issues immediately.
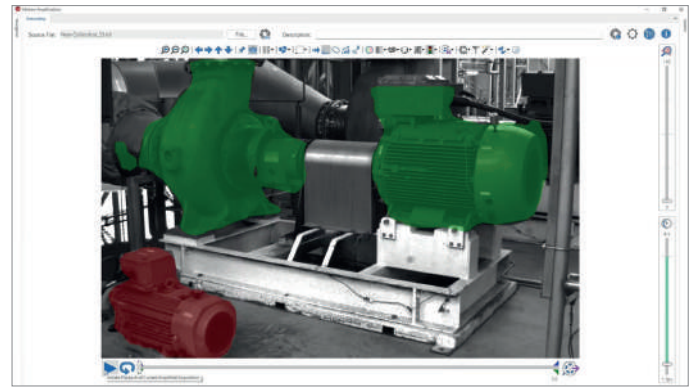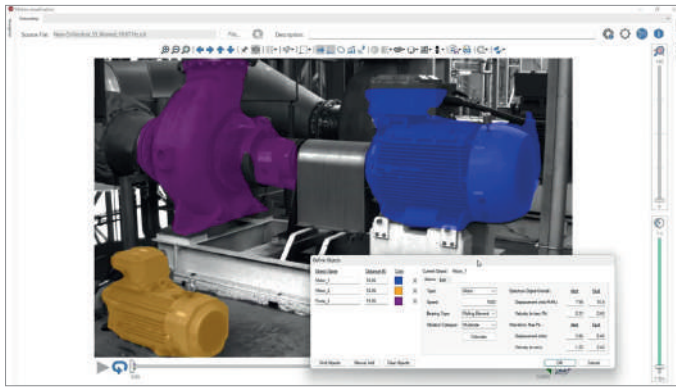- **Future-Ready** – Advanced imaging integrates fully with TrueSight™ software.

Seamless Integration with TrueSight™ Software

The IRIS MA™ camera powered by TrueSight™ software creates a complete diagnostic solution that combines high-speed imaging with AI-driven analysis for unmatched clarity and confidence.

- **Smarter Diagnostics** – TrueSight™ automatically detects assets and provides real-time health alerts, simplifying what used to be complex analysis.
- **Deeper Insights** – By combining visual motion data with accelerometer input, the system captures every fault, from misalignment to high-frequency bearing issues.
- **Streamlined Workflow** – Onboard processing and seamless software integration eliminate bottlenecks, moving you from capture to actionable results faster than ever.

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SEEING IS **BELIEVING**

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TrueSight™ ID software simplifies workflow and saves time by automatically identifying objects of interest, allowing users to get started instantly. The severity alerts reduce diagnostic complexity and allow immediate, actionable insights with a simple green-yellow-red alert system, enabling technicians of any skill level to quickly address maintenance needs.

FEATURES

LIVE MOTION AMPLIFICATION®
Apply amplification before acquiring a recording. Scan assets instantly to see motion in real time.

DATA EXPORT
Export waveform, spectra, orbits, and object paths to .csv file.

TOP FREQUENCY FILTERING
Automatically determine frequencies of interest and create multiple filtered data sets with a single click.

TRANSIENT PATH PLOT
Show the path of an object in the video as well as in the plot.

TIME WAVEFORMS, SPECTRA, AND ORBITS
Unlimited number of regions can be drawn in the video to measure displacement. All measurements are simultaneous.

FREQUENCY FILTERING
Bandpass, bandstop, lowpass, and highpass filtering of time waveform and video.

SHAFT INSPECTION
Visually inspect rotating shafts and measure their displacement while under operation.

VIDEO ANNOTATIONS
Add text, shape, annotations, and company logo overlays with export to video.

STABILIZATION
Entire frame and region based image stabilization.

MOTION MAPS
Show colorized image overlays of individual frequencies or overall motion.

TRANSIENT MOTION AMPLIFICATION®
See Motion Amplification® of small motions as an object moves through the scene.

VIDEO SIDE-BY-SIDE
Side-by-side playback of original and Motion Amplification® video.

SPECIFICATIONS

LENSES
50mm f/0.95 Lens for Micro Four Thirds
25mm f/0.95 Lens for Micro Four Thirds
10.5mm f/0.95 Lens for Micro Four Thirds

SAMPLE RATE
1,400 fps in HD, up to 29,000 fps at reduced resolution.

FREQUENCY RANGE
Up to 5,400 CPM @ 180 fps Maximum: 39,000 CPM at 1,300 fps with reduced resolution.

with TrueSight HighSpeed:
Up to 42,000 CPM at 1,400 fps Maximum: 870,000 CPM at 29,000 fps with reduced resolution.

MOTION AMPLIFICATION® FACTOR
1-500x

MINIMUM DISPLACEMENT
<0.01 mils (0.25 μm) at 3.3 ft (1m) with 50mm lens, 0.005 mils (0.125 μm) at close focus.

PLAYBACK/EXPORT FEATURE
4x original framerate to 1 fps.

THUNDERBOLT CABLE LENGTH
8.84 t (3m)

OPTIONAL ACCESSORY KIT
LED light: 23,000 Lux @ 1 m, Li-ion light battery, light stand, extra vibration pads, computer stand.

ACQUISITION SYSTEM
i7 processor, 32GB RAM,1TB SSD, dual batteries, lightweight.

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