



# IRIS M™ TRAVELER

## THE POWER OF TECHNOLOGY

Take the power of Motion Amplification® anywhere with the new Iris M™ Traveler. Designed to move with you, the Iris M Traveler is a portable, compact and lightweight vibration analysis system, that lets you quickly and easily capture millions of data points on the go. With minimal setup and breakdown time, you can quickly gear up and acquire critical data in tight spaces and logistically challenging environments, elevating your reliability program's capability and accessibility.



Well-equipped for every situation, the Iris M Traveler features a single zoom lens with multiple fields of view, high-powered battery light, lightweight professional tripod, and the versatility of a 'hands-free' touch-screen tablet positioned comfortably around your neck for flexibility & maneuverability in hard-to-reach spaces. The Tablet Mode interface features new tap, touch, and swipe gestures for simple, easy navigation, and an intuitive and smooth RDI Acquisition and Motion Amplification® experience.

Whether you're a current Iris M system user or new to Motion Amplification®, the Iris M Traveler is packed with performance to help make the most of every point of data virtually anywhere you go.





## FEATURES

### LIVE MOTION AMPLIFICATION®

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

### TIME WAVEFORMS, SPECTRA, AND ORBITS

Unlimited number of regions can be drawn in the video to measure displacement. All measurements are simultaneous.

### STABILIZATION

Entire frame and region based image stabilization.

### DATA EXPORT

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

### FREQUENCY FILTERING

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

### MOTION MAPS

Show colorized image overlays of individual frequencies or overall motion.

### TOP FREQUENCY FILTERING

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

### SHAFT INSPECTION

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

### TRANSIENT MOTION AMPLIFICATION®

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

### TRANSIENT PATH PLOT

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

### VIDEO ANNOTATIONS

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

### VIDEO SIDE-BY-SIDE

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

## SPECIFICATIONS

### LENSES

Single Zoom Lens (12mm-75mm)

### ACQUISITION SYSTEM

i7 processor, 16GB RAM, 1TB SSD, dual batteries, 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 at 1,300 fps with reduced resolution.

### MINIMUM DISPLACEMENT

<0.01 mils (0.25  $\mu$ m) at 3.3 ft (1m) with 50mm lens, 0.005 mils (0.125  $\mu$ m) at close focus.

### PLAYBACK/EXPORT SPEEDS

4x original framerate to 1 fps.

### MOTION AMPLIFICATION® FACTOR

1-500x.

### USB3 CABLE LENGTH

9.84 ft (3m).

### ACCESSORY KIT

LED light: 4500 lumen, Li-ion light battery, ~2 hr run time