



Advanced Test Equipment Corp.
www.atecorp.com 800-404-ATEC (2832)



SEEING IS
BELIEVING



IRIS aiONE™

One Platform. **Total Clarity.**

The all-in-one AI driven diagnostic ecosystem. Instant diagnostic confidence.
See the fault. Solve the problem

Revolutionizing Condition Monitoring

One platform for every asset. Iris aiOne™ combines the power of the Iris MA™ camera with the TrueSight™ software engine to automate asset recognition, validate severity, and accelerate your most critical maintenance decisions.

THE CHALLENGE

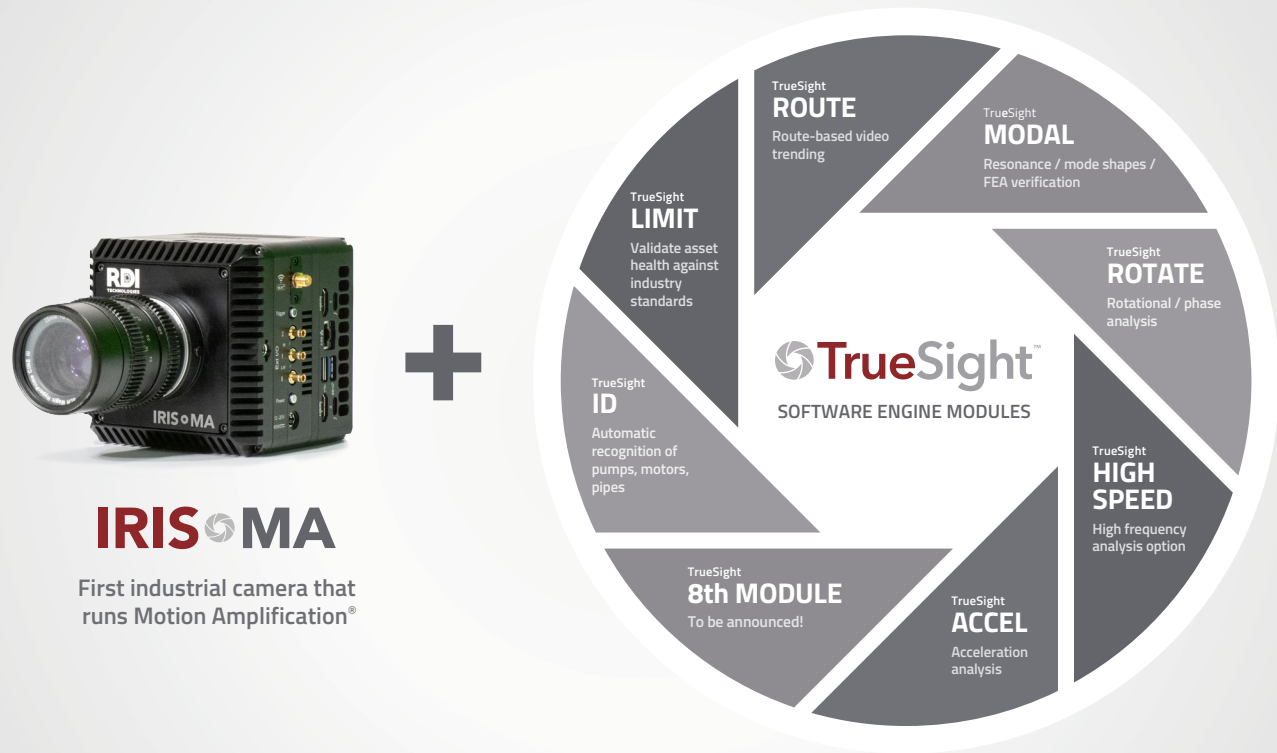
- Limited personnel availability
- Time-intensive workflows
- Analysis paralysis due to data overload
- Missed faults due to limited sensing methods

THE SOLUTION

- Iris aiOne™ all-in-one includes:
- Visual Motion Amplification®
 - Automatic asset identification and comparison to limits
 - Wireless accelerometer integration
 - Unified workflows

SIMPLE INSTANT DIAGNOSTICS

- Detects faults traditional tools miss
- Reduce inspection time to prevent unplanned downtime
- Perform complex diagnostics easily



IRIS MA

First industrial camera that runs Motion Amplification®

Precision Starts with Powerful Hardware



IRIS MA

FEATURES

- CLEAR, INTUITIVE INSIGHTS – Easy to use without complex setup.
- INSTANT PROCESSING – Fast analysis with no workflow delays.
- RUGGED & RELIABLE – Built for industrial environments.
- FASTER DECISIONS – Precise data. Immediate answers.
- FUTURE-READY – Continuous diagnostic evolution through the TrueSight™ software engine.

From setup to insight in minutes.

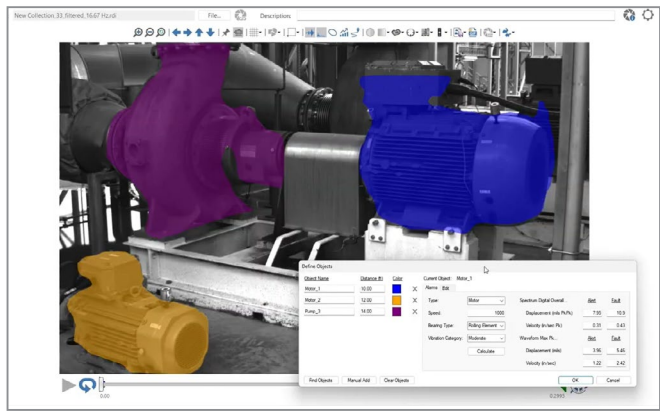


Intelligence That Transforms Motion into Meaning

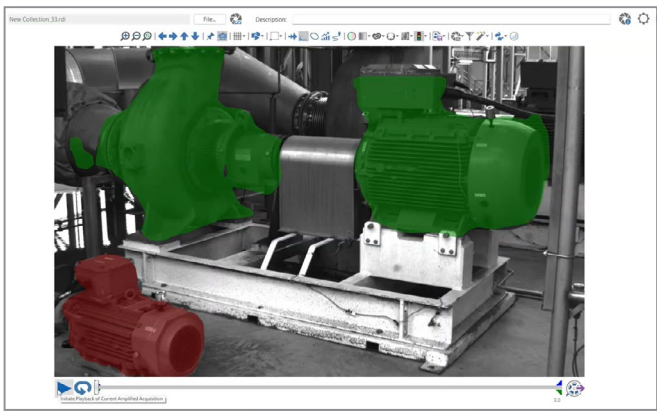
Powerful.

CORE SOFTWARE MODULES

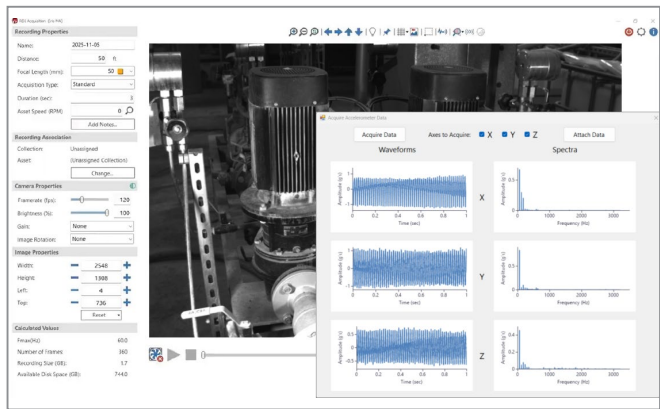
At the heart of the Iris aiOne™ platform is the TrueSight™ software engine, which eliminates complexity to deliver instant diagnostic confidence. These modules automate setup and interpretation, moving your team from capture to actionable answers in minutes.



TrueSight™ ID
Automatic object identification / Instant setup / Eliminates manual ROI selection



TrueSight™ LIMIT
Severity-based color alerts / Green–Yellow–Red system / Immediate actionable insights



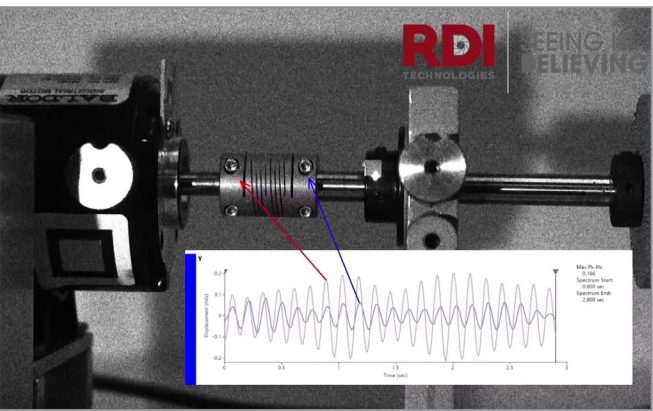
TrueSight™ ACCEL
Wireless accelerometer integration / Capture high-frequency, low-displacement faults / Unified data visualization



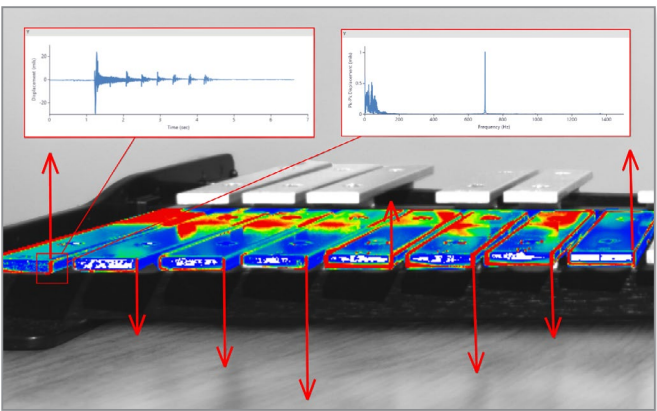
DISCOVER TRUESIGHT™ >

EXPANDED TRUESIGHT™ CAPABILITIES

TrueSight™ extends the power of the Iris aiOne™ platform beyond Motion Amplification. These advanced software capabilities transform full-field visual data into deeper structural, rotational, and high-speed insights.



TrueSight™ ROTATE
Animate true operational deflection shapes of rotating assets / Diagnose imbalance, misalignment, looseness, and shaft issues / Add visual clarity to traditional vibration data / Improve confidence in rotating equipment diagnostics



TrueSight™ HIGHSPEED
Capture and analyze fast transient events / Slow down high-frequency motion for detailed troubleshooting / Ideal for failure analysis and complex dynamic behavior / Reveal motion invisible to conventional inspection methods

TrueSight™ MODAL
Perform Operating Deflection Shape (ODS) and modal analysis using full-field video / Visualize resonance and structural behavior with clarity / Reduce testing time compared to traditional sensor-based modal methods / Ideal for structural troubleshooting and validation

TrueSight™ ROUTE
Enable standardized, repeatable inspection routes / Trend visual vibration data over time / Ensure consistency across technicians and facilities / Scale Motion Amplification into routine monitoring workflows / Automated anomaly detection / Guided troubleshooting

Not an Upgrade. An Evolution.

Iris aiOne™ builds on the Iris M™ legacy to deliver faster, smarter, and more powerful diagnostic confidence.

	 IRIS aiONE™	 IRIS M™
High frequency vibration measurements with wireless vibration sensor*	✓	✗
Setup routes and repeated measurements workflow	✓	✓
Rotating equipment measurements and Motion Amplification	✓	✓
Reporting templates with integration of annotations, videos and data	✓	✓
AI driven asset identification	✓	✗
User-defined alarm limits	✓	✗
TrueSight™ Highspeed upgrade for high frequency measurements (0-3000 Hz)*	✓	✓
Enhanced field of view**	✓	✗
Thunderbolt data/video transfer	✓	✗
Modal acquisition and analysis*	✓	✓

*Available as add-on products

**With enhanced lenses and an advanced camera sensor, Iris aiOne captures a wider, more detailed field of view.

Note: TrueSight™ Highspeed is enabled on the aiOne camera via a simple license, while Iris M requires an additional Iris MX camera add-on.

Everything You Need. Right Out of the Backpack.

WHAT'S INCLUDED

- Backpack
- Dell Pro Rugged 14
- Iris MA™ camera
- Camera tripod
- 50mm Lens f/1.95
- 25mm Lens f/1.95
- 10.5mm Lens f/1.95
- Shoulder strap
- Thunderbolt 4 cable
- RDI battery
- Ledlenser LED light
- Vibration pads
- Target packs (magnets & stickers)
- Laser range finder



Why Iris aiOne™?

Comprehensive Full-Field Measurement / Every pixel acts as a sensor / Non-Contact Diagnostics / Safe inspections without touching equipment / Visual + Quantitative Insight / Clear evidence you can share with confidence

KEY SPECIFICATIONS

1,400 fps

Max Frame Rate (HD)

870,000 CPM

Max Frequency Detection

Contact to 6400Hz

Non-contact to 14,500Hz

Dynamic Measurements

40 Gbps

Thunderbolt™ Data Transfer

Onboard Processing

Instantaneous capture & storage

Comprehensive Fault Detection

Looseness | Imbalance | Misalignment |

Soft Foot | Bearing Faults

Accelerometer Integration

Simultaneous data from an accelerometer

CONDITION MONITORING APPLICATIONS

Iris aiOne™ makes the invisible visible, enabling real-time visualization of motion and vibration across entire assets.

Structural Looseness – Detect subtle looseness in mounts, components, and foundations before failure.

Piping Vibration – Diagnose harmonics, loose hangers, and stress points visually.

Misalignment – Confirm angular, parallel, or compound misalignment and verify corrections instantly.

Resonance – Identify natural frequencies and structural resonance without complex calculations.

Commissioning Validation – Catch soft foot, looseness, and hidden dynamic issues before first run.

Route-Based Repeated Measurements – Collect consistent vibration data across assets for trend analysis.

Autonomous Measurements – Monitor critical equipment automatically with minimal manual effort.

Alarm-Based Troubleshooting – Investigate anomalies instantly to prevent unplanned downtime.

Modal Analysis – Visualize structural vibration and pinpoint resonances quickly.

Ideal For:
Predictive Maintenance
Root Cause Analysis
Product Testing



GET STARTED

Discover how Iris aiOne™ can transform your condition monitoring program.

[REQUEST A FREE DEMO >](#)

info@rditechnologies.com

865.606.1080