

Everest Mentor Visual IQ with TrueSight™

# Inspect with intelligence.







# The most precise detection. Faster.

Mentor does more.  
So you can too.

Today, visual inspections are more crucial than ever to reduce the risk of serious equipment failures and improve uptime. Because the more you know about your assets, the better your chances of detecting potential issues before they impact operations.

Waygate Technologies Mentor Visual iQ VideoProbe™ provides superior accuracy for even the toughest inspections, with the highest Probability of Detection (POD) for indications such as dents, nicks, tears and cracks.

With 9 measurement types, Real3D™ provides the most accurate assessment of indications. High fidelity data from freeze frame captures can be stitched together for a larger fully surfaced point cloud of the target surface.

As the industry's first video borescope to feature advanced analytics, including computer vision and machine learning, the Mentor Visual iQ pushes the boundaries of the inspection landscape.

# Leading the way with advanced digital inspection.



Cutting-edge HD image quality

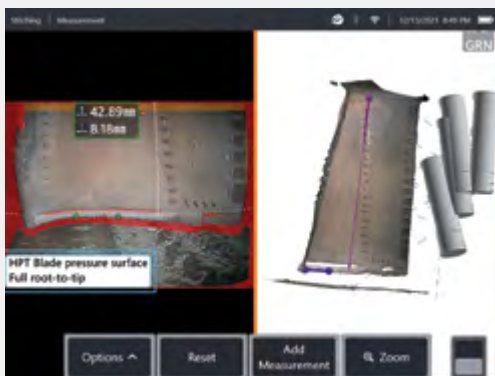
With TrueSight™, Mentor Visual iQ delivers HD visuals, a high-intensity light source, and superior visual processing, for clearer, sharper videos and still images right on your device. Using a single tip, the image quality allows for accurate measurement from increased distances, increasing potential measurement surface area, POD, and reducing noise in the fully surfaced Point Cloud.



Advanced detection and analysis

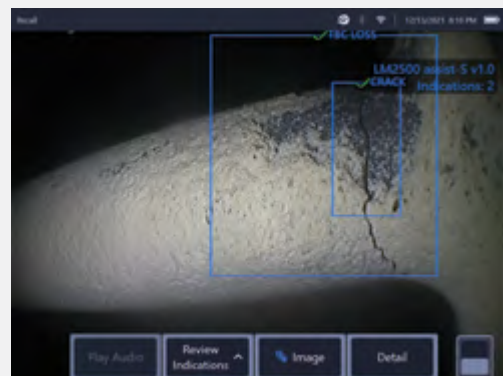
With HD-enabled digital zoom, you can hone in on even the tiniest indications mid-inspection. On-demand 3D Phase and Stereo Measurement and 3D Stitching, powered by Real3D™, along with on-device workflows, data management, and assisted defect recognition provides you with the information needed to ensure the condition of the asset is captured and assessed using World Class technology all housed within the Mentor Visual iQ – helping you increase productivity and make the best possible decisions, faster.

## 3D Stitching



Complete image of HP turbine blade stitched together from 4 captured images allows accurate root-to-tip measurement..

## LM2500 assist



In this example image, the LM2500 assist analytic correctly identifies and characterizes crack and TBC loss.



## Performance meets portability

Mentor Visual iQ combines the portability you want with the powerful processing you need. Its rugged, ergonomic design ensures it can withstand the toughest inspection environments, while still being lightweight enough for easy storage and mobility.



## Intuitive innovation

Menu Directed Inspection (MDI) software and InspectionWorks Insight provides advanced file management so it's easier to store, organize, analyze and report large volumes of inspection data.

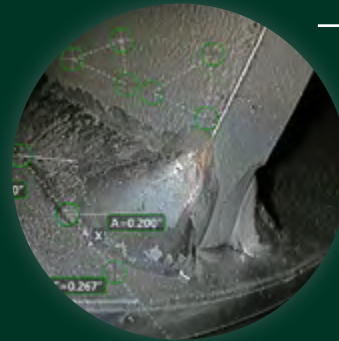
Whilst providing the ability to direct the inspector through a given inspection workflow, MDI also enables automatic activation of analytics and defect classifications and observations to be captured within saved images. With Push2IW, images and videos are automatically saved in InspectionWorks Insight with all relevant metadata.

Innovations such as automated measurement and Blade Counter reduce the risk of errors from repetitive tasks so Inspector's can concentrate on the job at hand - the inspection.

Detect even the smallest indications in a variety of applications across a range of industries, including:



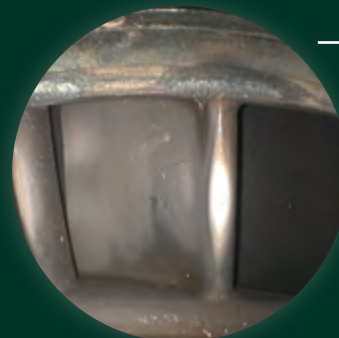
7FA Igniter  
(Oil & Gas)



Weld  
(General Inspection)



GE90 Combustion  
Chamber  
(Aerospace)



Nozzle crack in a  
turbine  
(Aerospace)

# More uptime, no matter the industry.

Faster, more accurate inspections bring greater value across a variety of industries and use cases.

## Aerospace

- Enhances POD in all engine stages
- Significantly reduce Aircraft on Ground (AOG) and inspection time
- Improve the shop and flight-line inspection process
- Fast and accurate go/no-go's with Real3D™ surface scanning and analysis
- Store Aircraft Maintenance Manual (AMM) workflows, catalog images, and generate reports on demand
- Automatic Blade Counter to ensure blades are not miscounted or mislabelled.
- Assisted defect recognition analytics by Aiir Innovations

## Oil & Gas

- Withstand the toughest field conditions—on a rig, column, or turbine unit
- Inspect large areas such as tanks, headers, vessels, and meter tubes with superior TrueSight™ image quality and illumination
- Fit for Purpose/Balance of Plant inspections of a variety of assets
- Determine accurate depth and size of pitting, cracking and corrosion indications

## Power generation

- Handheld or hands-free portability makes inspections in difficult access areas faster and easier
- Accommodate specific inspector preferences, or inspections by plant type
- Designed for rugged inspection conditions
- Improve POD of flow-accelerated corrosion, pitting, cracking, wear, and tip rub with crisp HD image quality
- LM2500 assist provides consistent defect characterization

## A wide range of applications

- Pumps
- Motors
- Generators
- Pulp and paper rollers
- Gear boxes
- Pipes
- Tubes
- Purity pipes
- Compressors
- Meter tubes
- Large pistons
- Chillers
- Valves
- Gun barrels
- Mortar tubes
- Homeland Security
- Maritime surveying
- Airframe
- Chasis



# Get the most out of your inspection.

With these add-ons, you can maximize versatility and productivity, while minimizing total cost of ownership for your Mentor Visual iQ device.

## ✓ Flexibility to work faster

Intuitive product design with QuickChange™ probes, tip optics, and custom user and application profiles help you meet a variety of the toughest inspection challenges.

- Touchscreen interface with on-screen keyboard and annotations
- Ergonomic buttons and precise cursor placement
- WiFi and Bluetooth-enabled for seamless reporting

## ✓ Streamlined service on demand

Downtime is costly, but our streamlined repair service enables you to get your assets up and running again and keep Mentor Visual iQ where you need it: in your hands.

- Visual Care Plan: comprehensive service plan to help decrease downtime, save on repairs and conserve assets
- FLEX: managed equipment services enables you to buy guaranteed equipment uptime instead of owning and maintaining the equipment yourself

## ✓ Remote collaboration and control

Mentor Visual iQ pairs with InspectionWorks Connect software for live video streaming and collaboration in real-time—no matter the environment or distance between inspectors.

- InspectionWorks Connect Local+Control app provides connectivity between WiFi-enabled tablet or smart phone to the Mentor Visual iQ
- It empowers users to view, control and even transfer data to connected devices

## ✓ Power of Software

Leverage the power of the MVIQ processor to make inspections more accurate and reliable with optional software analytics such as automatic blade counter, 3D Stitching and assisted defect recognition.

## Interchangeable specialty probes

Every inspection application has its unique challenges. That's why we provide a variety of specialty and custom probes to meet your specific needs.



**UV VideoProbe:**  
Using a UV light source, integral quartz light fibers, and correct UV optics and filters, this probe is optimized for fluorescent penetrant inspections with the ability to access small remote areas of equipment.



**USB Probes:**  
For small-diameter video borescopy applications, 2.2 and 3.0 mm probes provide easy USB connectivity for a cost effective solution providing all the high-end features you expect from your MVIQ system.



**Working Channel Probe:**  
Expedite return-to-service with this 6.2mm diameter probe. The most complete foreign objects debris retrieval system in the industry, it features an internal working channel and a full suite of working tools.



**LongSteer™ Probe:**  
Useful for visual inspections of piping, heat exchangers, and boiler tubes, this probe provides great image quality, light output, and articulation in lengths up to 30 meters with Real3D™ Measurement.

# Inspection starts here.

Waygate Technologies Mentor Visual iQ delivers unprecedented precision and accuracy for faster, more informed decisions by providing the portability, powerful features, enhanced connectivity, and custom tools and accessories needed to help you succeed in industry today.

See how Waygate is revolutionizing the digital inspection landscape. Contact your sales representative for a demonstration.

[waygate-tech.com](http://waygate-tech.com)

## InspectionWorks.

The NDT software platform of the future.

InspectionWorks is an agnostic software platform that combines data from multiple non-destructive testing (NDT) tools, connects the entire inspection history of your asset and enables you to add inspection insights to a digital twin throughout its lifecycle. This turns your data into useful intelligence for faster and better decisions, ultimately saving costs and enabling a more competitive product.

### InspectionWorks Connect

- Remote collaboration through live streaming video and 2-way chat
- Real time access to inspections from anywhere in the world

### InspectionWorks Insight

- Comprehensive data management and inspection history
- Cloud access to data and analytics
- Push2IW automatically pushes all inspection data to the cloud

### InspectionWorks Store

- Public store contains device software, manuals, reference materials, analytic datasheets and more
- Private store is available for customers to share proprietary content within their organization such as apps (MDI), training materials and more

**Baker Hughes** 