



# Humans eliminating human error

A new kind of inspection technology  
—Mentor EM with Mentor Create



# More experience in every inspection

## Put expertise right in your hands

Mentor EM allows you to easily access on-device workflow applications that efficiently guide the inspector while capturing electromagnetic (eddy current) inspection data. Real-time collaboration with remote experts allows fast and accurate indication confirmation. No more stacks of paperwork or questionable inspection calls, just easy and efficient nondestructive testing for weld, aerospace (including rotary) and general purpose inspections.





## Innovative design

Find what you're looking for, easily. The all-new GE Mentor EM redefines eddy current inspection with its excellent signal-to-noise ratio and high-resolution display that's easy to see in any light. It incorporates user designed application workflows, and onboard Wi-Fi capability so that inspectors of all levels can easily communicate with each other. Plus an off-the-shelf lithium-ion battery with battery energy content of less than 100Wh, means you can easily transport the Mentor EM on aircraft and helicopter.



### Use it anywhere

A high-resolution display allows you to see the screen in any light.



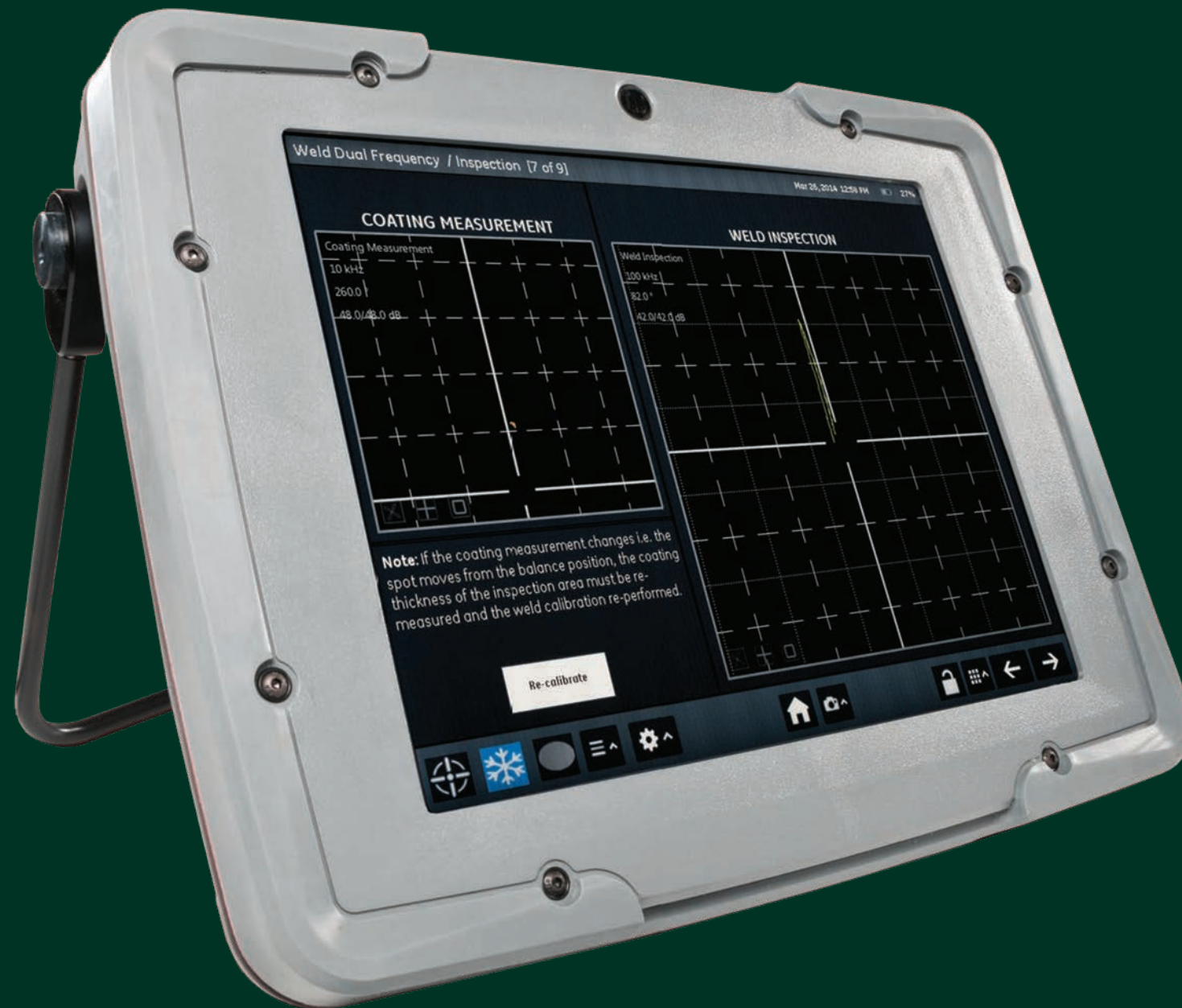
### Make better, faster decisions

Base your next steps on precise, real-time inspection readings.



### Access to industry knowledge

Wireless capabilities allow users to access offsite experts, service bulletins and workflows.



## Instant Collaboration

**Expertise at your fingertips.** It's not just about getting readings, it's about getting accurate readings, every time, from every inspector. With Mentor EM, NDT experts connect wirelessly to inspectors in the field to review real-time inspection results and provide support. Inspectors can even share screens instantly and add notes or comments. Training is easy and inspectors can troubleshoot on the spot. No more hard copy service bulletins or chance of miscommunication. Everything they need will be right there in their hands—in real time.

## Probes for all inspections

Waygate Technologies offers a wide range of probes for use with the Mentor EM. Specialized probes may be ordered and designed upon request.

Available Probes:

- Absolute pencil probes for surface scanning
- Reflection probes for subsurface inspection
- WeldScan probes for weld inspection
- Rotating scanner probes for fastener hole inspection
- Eddy current and RFT ID tubing probes
- Conductivity probes for heat treatment verification and metal grade sorting



### Easy-to-use technology

Step-by-step workflows on a user-friendly, customizable interface allow for easy data collection and reporting.



### Made for the way you work

Conveniently use the touchscreen while wearing gloves.

# Mentor EM with Mentor Create: The power to customize workflows for specific applications

## Weld solutions

With three preloaded application workflows, inspectors can select single, dual or dynamic gain control inspections for simultaneous crack detection and coating thickness measurements.

- Ready for the harshest environments with a superior IP rating
- Multiple alarm gates for tracking multiple defects
- Bluetooth and Wi-Fi enabled for easy connectivity to accessories and people

## Aerospace (including rotary) solutions

View Timebase and Spot perspectives at the same time to detect both radial defect positioning and sizing.

- High torque for fastener hole scanning
- Excellent signal-to-noise ratio for improved accuracy
- Fully customizable to each inspector's personal preferences

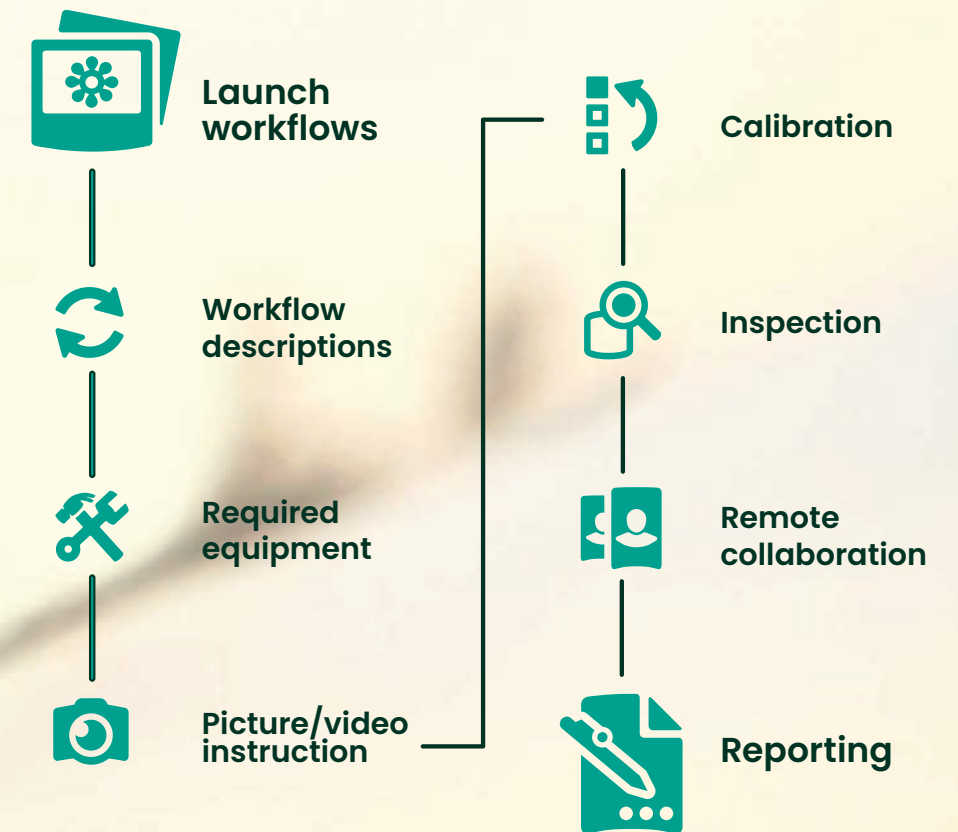
## General purpose solutions

With Bluetooth and Wi-Fi data transmission, collaboration can happen remotely—whether you're on the tarmac inspecting landing gear, hanging off an offshore platform inspecting welds or checking automotive bearings in a production line.

- Superior signal-to-noise ratio for an incredibly clean and sharp signal
- Easy-to-read high-resolution display for visibility in tough conditions
- Downloadable on-device workflow applications for fast and consistent inspections

# A new approach

**Transforming inspection technology.** Use Mentor EM to tailor on-device workflow applications to help your business run more smoothly and efficiently. With Mentor Create you can ensure everyone is following the exact same procedures, decrease the learning curve and improve the consistency of testing by developing your own custom workflows for every inspection. Mentor EM with Mentor Create—a new level of inspection technology.



# The future of Mentor EM

**Exciting things to come.** From innovative technology to increased connectivity, GE's Mentor EM is helping people make smarter decisions. A new online library will contain downloadable workflows to help everyone access the most up-to-date workflows and get the most out of their devices. And NDT experts all over the world will be able to share their expertise and inspection procedure workflows with one another.

Mentor EM is equipped for use with future applications such as:

- Heat exchanger, condenser, HVAC and ID tube inspection
- High POD pencil probes for increased speed of inspection without losing sensitivity
- Arrays for large area surface scanning
- Customized small systems integration for automated inspections

