

GE  
Measurement & Control

# Mentor EM

More experience in every inspection.

Remotely collaborate with experts in real time. Introducing Mentor EM for eddy current weld inspection.



imagination at work

This powerful new technology makes eddy current weld inspections easier, more accurate, and faster. By allowing the workflows to be instantly accessible on the device, Mentor EM helps to ensure strict compliance with codes, guidelines, and standard practices.



## Transforming Nondestructive Testing

- Portable eddy current testing instrument with industry-defining signal-to-noise ratio
- Reduces need for paper and manuals
- Large, bright, high-definition touchscreen that can be used while wearing gloves
- No knobs, dials, or switches to mistakenly adjust during use
- Superior IP rating and rugged cast magnesium housing to withstand harsh work environments
- Multiple alarm gates, which can be set to color or sound, to warn of possible defects

### Specifications

Battery Size	62 watt-hours/air transport compliant
Battery Life	4 hours for most conditions 90-minute charge time Extended battery pack adds 6 hours
Generators	2 generators and 2 connectors 2 time slices max per generator 4 frequency simultaneous injection
Display	10.4" XGA 1024 x 768 Projected capacitive touch
Frequency Range	10 Hz–6 MHz
Sample Rate (max)	50 kHz
Receiver Gain	0–34 dB
Gain	0–120 dB in 0.1 dB steps
Drive Voltage	0.5, 1, 2, 4, 8, and 16 VPP
Gates Output	2 per channel
Alarm Outputs	2 total, TTL levels, one per input One LED on instrument face, audio through Bluetooth (headset protocol)
Operating Temperature	-20 to 55°C
Storage	8 GB SSD
Connectivity	Wi-Fi; 6 Bluetooth channels
Dimensions	2.5 kg without modules; 295 mm x 230 mm x 60 mm 2.9 kg with 2-probe connector module and connectivity module
Image Formats	BMP, JPG
Video Formats	MPEG 4, Type 10

# Workflow-On-Device



Workflow Launcher



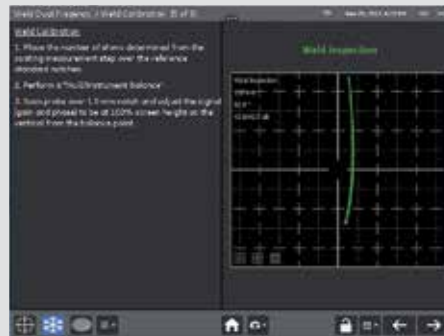
Workflow Description



Equipment Used



Picture/Video Instruction



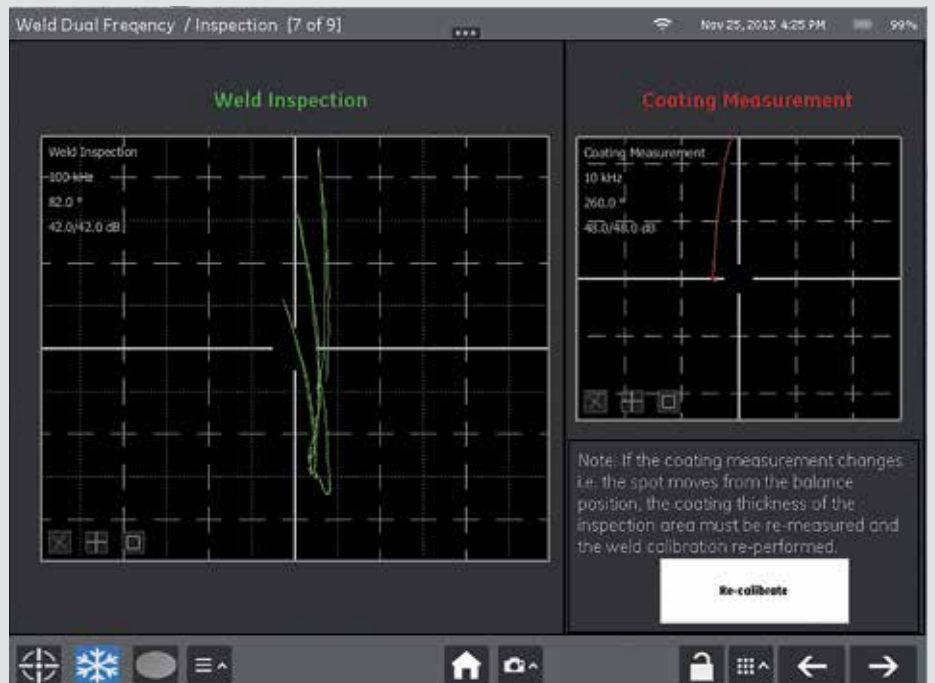
Calibrate for Weld



Calibrate for Paint Layer

## Instantly Collaborate and Access Information

- Connect to local network to share data and collaborate remotely with experts in real time
- Immediately download the most up-to-date procedures and workflows
- Bluetooth enabled



Perform Inspection

## Mentor Create Software

- Tailor on-device inspection workflow applications for technicians of all levels
- Aid inspectors by placing photos, procedures, and videos on device for reference while setting up, acquiring data, or analyzing data
- Limit range of adjustments available to the operator; and therefore limit the opportunity to make errors
- Use in “Expert Mode” as well as “Workflow-on-Device” mode



# Weld Probes for All Use Conditions

Straight Probes		Frequency	Cable Length		Disconnect
7/32" Straight		450 kHz–2.5 MHz	6"	632-267-002	Probe
			12"	632-267-012	
3/8" Straight		60 kHz–1.2 MHz	6"	632-266-002	632-266-008
			12"	632-266-012	
5/8" Straight		60 kHz–700 kHz	6"	632-265-002	632-266-009
			12"	632-265-012	
90° Tipped Probes					
7/32" inline, 1/4" drop		450 kHz–2.5 MHz	6"	632-267-102	632-267-108
			12"	632-267-112	
3/8" inline, 1/4" drop		60 kHz–1.2 MHz	6"	632-266-102	632-266-108
			12"	632-266-112	
5/8" inline, 1/4" drop		60 kHz–700 kHz	6"	632-265-102	
			12"	632-265-112	
5/8" 90°, 1/4" drop		60 kHz–700 kHz	6"	632-265-102	
			12"	632-265-112	
High-Wear Straight Probes					
3/8" High-wear (ceramic tip)		60 kHz–1.2 MHz			632-266-011
5/8" High-wear (ceramic tip)		60 kHz–700 kHz	6"	632-265-003	632-265-011
5/8" High-wear (SST)		60 kHz–700 kHz			632-265-018
High-Temperature Probes					
5/8" Straight Handle Length 6"		60 kHz–700 kHz			632-265-008

## Complete Line of Wide-Frequency Probes

Standard, high-wear, high-temperature, and cableized models for all job requirements



Straight



90° Inline Tip



90° Right Angle Tip