



Please find attached the **technical literature** for our **fourth-generation MFL Tank Floor Scanner – Model MARK IV**. This state-of-the-art scanner features the **world's lightest permanent magnet base** (just 30 kg) and is equipped with advanced software for **real-time data acquisition, tank floor mapping, and instant report generation** at your fingertips.

Our MARK IV Scanner offers **100% repeatability** on scanned areas and includes the following key features for your review:

- ❖ Real time display with A-Scan with LED signal response & C-Scan with **bird eye to locate defect location and distinguish for top & bottom side corrosion**.
- ❖ Encoder with **speed tracker**.
- ❖ **Manual and Mapping** mode.
- ❖ Integrated user-friendly software.
- ❖ **Detection of localized / small volumetric defects (pitting up to 20 % WL) and thru hole size 1/16" (1.6 mm) diameter in 6 mm plate**.
- ❖ **Tank drawing creation takes less than 1 minute**.
- ❖ **Easy reporting feature by exporting data to USB at any time during scanning**.
- ❖ **No yearly license fees** for data acquisition / reporting software.
- ❖ **Lightweight scanner only 30 KG including battery**.
- ❖ **Hot swappable batteries with full charging in 30 minutes**.
- ❖ adjustable handle for critical area scanning.
- ❖ **MAPPING MODE - User Defined Defects sizing during scanning**.
- ❖ **Mapping – Threshold Settings for suppress low amplitude indication**.
- ❖ Advance military spec. data acquisition unit & cable connector.

and many more....

We Can demonstrate all above features by online any time with prior notice.



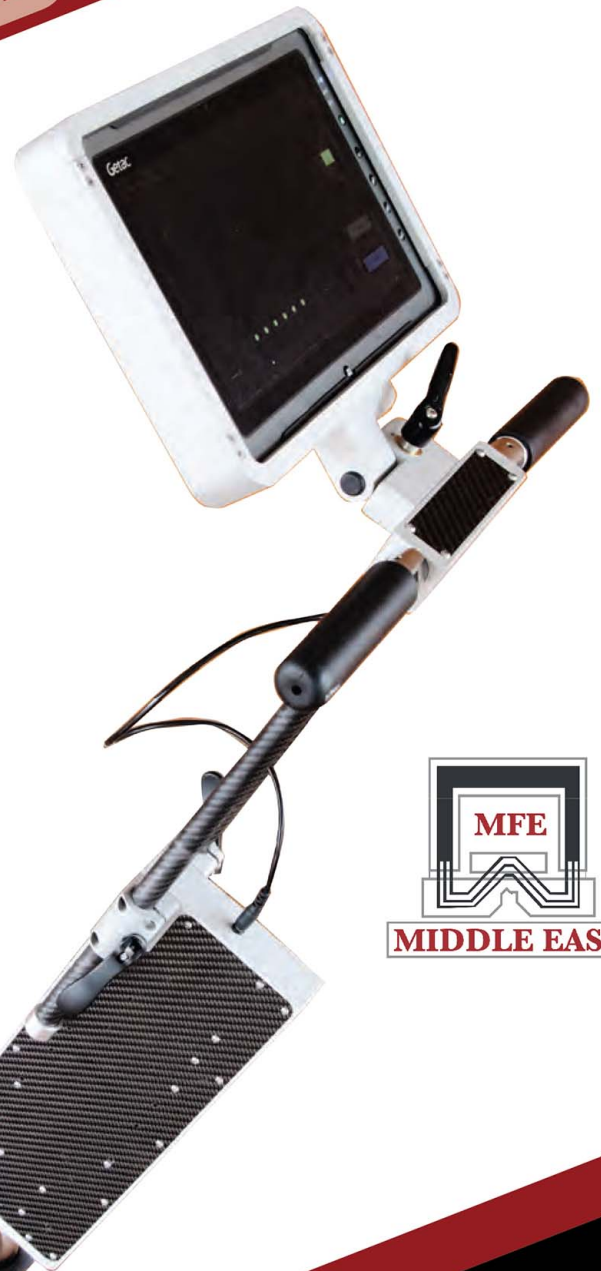
MFE EDGE

MFE EDGE

MFE'S NEW MARK IV EDGE SCANNER

ONLY 61 LBS!

- REAL-TIME DISPLAY**
- CARBON FIBER CASING**
- PIVOTING HANDLE ASSEMBLY**
- USER-FRIENDLY SOFTWARE**
- HOT SWAPPABLE BATTERIES**
- MANUAL & MAPPING MODES**
- ADJUSTABLE HANDLE ASSEMBLY**
- SEAMLESS COMPATIBILITY WITH MARK IV**
- DISCONNECT BRIDGE FOR EASY SHIPPING**
- ONLY 61 LBS!**



MFE MIDDLE EAST FZCO.
Radhakrishna Madgeri
rmadgeri@mfemiddleeast.com
Office: +971 48 806154
Mobile: + 971 561298654



MFE EDGE

SPECIFICATIONS

SCAN WIDTH	6 INCHES
MAXIMUM SINGLE SCAN LENGTH	NONE
TEST THROUGH COATING	YES, IF NON MAGNETIC
POWER REQUIREMENTS	HOT SWAPPABLE BATTERIES
REAL TIME ANALYSIS	A-SCAN / C-SCAN VIEWS
MONITOR	GETAC F110 TABLET
OPERATION WEIGHT	61 LBS / 28 KG
SENSITIVITY	ADJUSTABLE
ADJUSTABLE THRESHOLD	YES
SPEED COMPENSATION	YES



The MFE EDGE is MFE Enterprises' newest tank edge scanner. The EDGE features the user-friendly, quick and efficient software of the Mark IV Tank Scanner, but has a pivoting handle that allows the scanner to fit tight against the storage tank shell in the critical zone. The MFE EDGE is designed to work alongside the Mark IV by creating analytical reports that can be imported into the Mark IV Tank Scanner.



MFE MIDDLE EAST FZCO.
Radhakrishna Madgeri
rmadgeri@mfemiddleeast.com
Office: +971 48 806154
Mobile: + 971 561298654



WWW.MFEMIDDLEEAST.COM | WWW.MFESCAN.COM

MARK 4 TANK FLOOR SCANNER

TECHNICAL SPECIFICATIONS

High Performance Tank Floor Inspection Scanner

WEIGHS ONLY 65 LBS/30KG

MAPPING

ALARM ON DEFECT

MANUAL

Getac Rugged Touch Screen Tablet & scanning software

Hot-Swappable Batteries

Collapsible Handle Bars For Easy Storage

Integrated Electronics Module in Carbon Fiber Casing

Advanced Military-Spec Breakaway Cables

Quick Release Detachable Handle Assembly

Mapping Encoder

- FREE/MANUAL MOVEMENT
VARIABLE SPEED UP TO 1 M/S (3.2 FT/S)
- EASY OPERATION OF LIFTING AND
REMOVING SCANNER FROM THE FLOOR
- SCANNER DISMANTLES INTO TWO PARTS

NEW SLIM, LIGHTWEIGHT DESIGN

WWW.MFEMIDDLEEAST.COM | WWW.MFESCAN.COM

MFE MARK IV TECHNICAL SPECIFICATIONS

GENERAL	
Principle of operation	Magnetic Flux Leakage
Sensor Type	24 Coil Sensor, 12 channels. "Coil type is adequately sensitive & stable and durable"
Scanning Modes	Mapping, Manual and Alarm on Defect Modes
Scan Width	12 Inches / 300 mm
SYSTEM SPECS.	
Scanner Weight	30 kg / 65 lbs.
Method of propulsion	Manual/ Free push, wheel size (5in/127mm dia.)
Transit case	Meets IATA Requirements for Transporting Magnet sable Material
	2 Cases, Dimensions {1st (90x47x20 cm) & 2nd (45x40x20 cm)}
Mobility / Handling	Only 2 persons.
Cables	3 Advanced Mil-Spec Breakaway Cables
Handles	Detachable and Fully Adjustable Handle made from carbon fiber material.
Power	Hot Swappable Batteries - No switch off; reinsert fresh batteries without losing power.
	Li-Ion smart battery (11.4V, 2160mAh) Dim. (160 x 77 x 7 mm) / 50 gm
	4 batteries supplied - 8 hrs. Of continuous use, charging time 0.30 min/work time 2 hrs.
Sensor Height Control	Flexibility setting (Up and Down) depends on Floor Status - 6 levels setting.
Maximum Single Scan Length	Unlimited length "None"
Scanner Height	Adjustable handle down to 28" inches / 71 cm.
Speed Tracker / Scanner Speed	Yes, Variable Up to 3.3 ft. – 1.1m / sec.
SCANNER CAPABILITIES	
Thickness Range	Standard: Up to 0.50" / 12.7 mm (Standard Range: 6 mm – 12.7 mm)
Positional Accuracy	-/+ 1/4" / 6 mm.
Minimum defect detection sensitivity	20% for 1/4" (6 mm) diameter defect, On 1/4" (6 mm) Plate.
Origin of defect detection	Bottom and Top side.
Test through Coatings	Yes, if non-magnetic.
Coating/Lining Thickness	Up to .50" / 12.7 mm.
Minimum man-way size	450 mm / 17.5 in
Temperature	Operating temperature - 21°C to 60°C (-5.8° F to 140° F)
	storage temperature limits - 51.1°C to 71°C (-60° F to 160° F)
SOFTWARE	
Supported plate types	Rectangle, annular and sketch
Un-scanned area	20 mm (3/8") from plate weld, Corner 119x119 mm (4.7x4.7") dead zone
Real Time Display	Yes
A and C Scan View	Yes
Alarm on defect	Yes, Adjustable Threshold - Screen Freeze Alarm
Sensitivity setting	Yes, (Min – Max) adjustable.
Report file extension Type	Word file - Editable Format. add photos , comments ...etc.
CAD Tank Drawing Software	Yes, Automatically generated
Time for Floor layout drawing	Creation of floor layout drawing before start scanning in a minute.
Reporting suite	MFESCAN MV4 - Full version – unlimited users license.



MFE MIDDLE EAST FZCO
 Radhakrishna Madgeri
 rmadgeri@mfemiddleeast.com
 Office: +971 4 880 6154
 Mobile: + 971 561298654