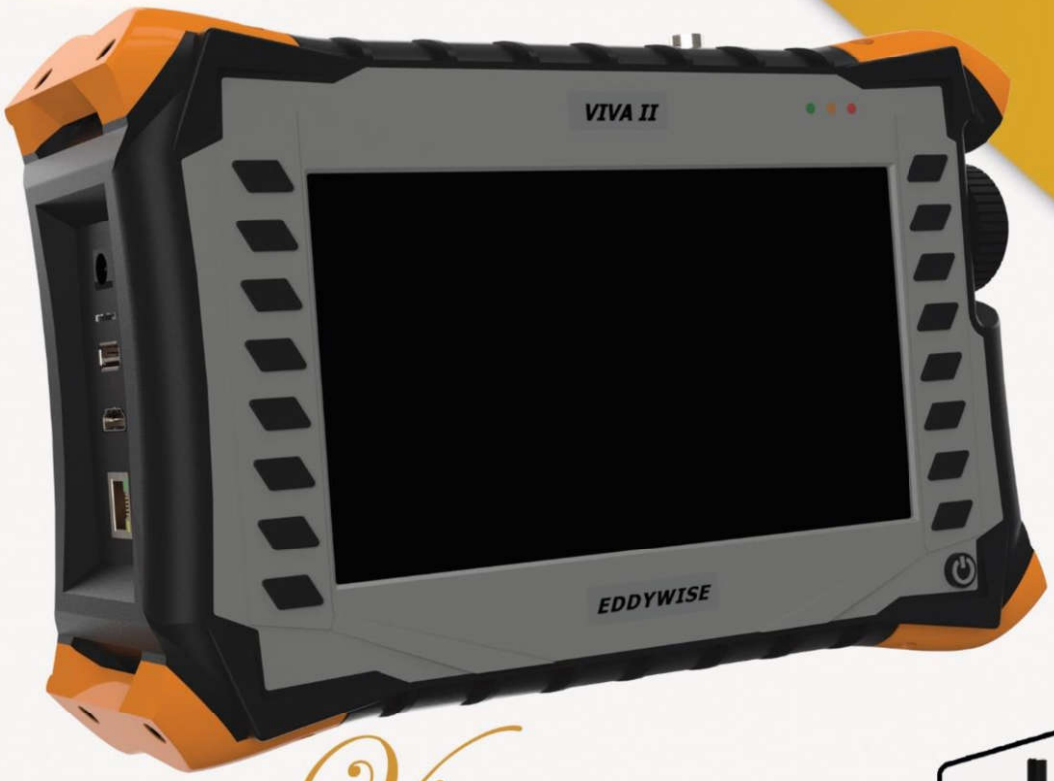
EDDYWISE

راهکارهای نوین تست غیر مخرب در کنترل کیفیت

شرکت دانش بنیان ایرانیان هیبرید



Viva Portable

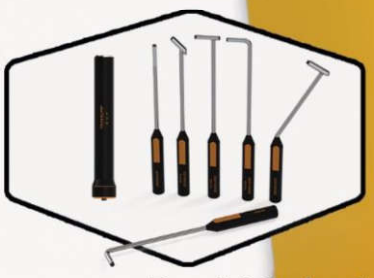
Eddy Current System

دستگاه ادی کارنت پرتابل ویوا

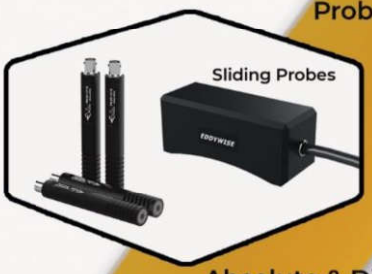
Supporting following methods

- Eddy Current Testing (ECT)
- Remote-Field Testing (RFT)
- Near-Field Testing (NFT)
- Magnetic Flux Leakage (MFL)
- Rotary Inspection

- Training and support
- Long life battery
- Documenting inspection results
- PC connectivity
- Easy user interfaces

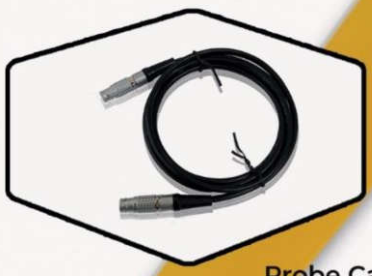


Pencil & Spring-Loaded Probes



Absolute & Differential Probes

ID Probes



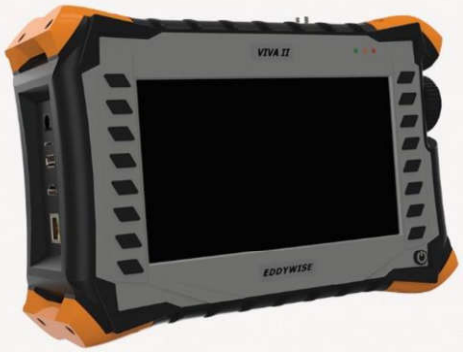
Probe Cables

Viva

Technical Data

Housing	
Overall dimensions (width × height × depth)	272 mm × 185 mm × 88 mm (10.70 in. × 7.28 in. × 3.46 in.)
Weight	3.0 kg, including Lithium-ion Battery
Power requirements	100 VAC to 120 VAC, 200 VAC to 240 VAC, 50 Hz to 60 Hz.
Input and Outputs	2 15-Pins TTL Inputs, One Encoder, 16-Pins LEMO, BNC or LEMO 1 (optional)
Environmental Conditions	
Operating temperature	–10 °C to 50 °C (14 °F to 122 °F)
Storage temperature	0°C to 50°C (32 °F to 122 °F) [with batteries] and -20°C to 70°C (-4 °F to 158 °F) [without batteries].
IP rating	Designed to meet requirements of IP64.
Battery	
Battery type	Lithium-ion rechargeable battery with BMS - 14.4V
Battery life	Up to 12 hours for standard operation
Display	
Display size (W × H, diagonal)	176.6 mm × 99.36 mm × 203.8 mm (6.95 in. × 3.9 in. × 8 in.)
Display type	Full VGA (800 × 480 pixels) color, LED
Screen modes	Normal or Full screen
Grids and display tools	Yes
Connectivity and Memory	
PC software	EddyWise PC software. EddyWise PC allows viewing saved files, printing reports, and viewing online eddy current data, Password protected supervisor level for adjusting basic testing parameters and locking them. data logger (opt.)
Data storage	Micro SD
Interface	
Language	English
Applications	Application selection menu for easy and rapid configuration.
Real-time readings	2 real-time readings measuring signal characteristics

Eddy Current Specifications	
Probe types	Absolute and differential in either bridge or reflection configuration. The instrument is fully compatible with Iranian Hybrid probes, as well as other main probe and accessory suppliers per request.
Probe connectors	16-Pins LEMO and BNC featuring internal automatic balancing for BNC connector (absolute probes).
Frequency range	10 Hz to 5 MHz
Gain	0 dB to 90 dB in 0.1 or 1 dB increments
Rotation	0° to 359.9° in 0.1° or 1° increments.
Sweep	Variable from 0.005 s to 10 s per division
Filters	Low-pass: 10 Hz to 2000 Hz and wide band. Highpass: off or 2 Hz to 1000 Hz. Continuous null (low-frequency HP filter): 0.2 Hz, 0.5 Hz, 1.0 Hz.
Probe drive	HIGH (20 V) into 100 Ω.
Display erase	0.1 s to 60 s
Available alarm types	3 simultaneous alarms. Choices include BOX (rectangle), POLAR (circle), SECTOR (pie), SWEEP (time-based), CONDUCTIVITY, and COATING THICKNESS.
A/D resolution	16 bit
Number of channels	Viva I: One Channel Viva II: Two Channels
Hardness, Conductivity and Coating Thickness Measurement	
Hardness	Dependent on conductivity range, probe frequency and range of calibration
Digital conductivity specification	0.9% to 110% IACS or 0.5 to 64 MS/m. Accuracies are dependent on conductivity range, probe frequency and range of calibration.
Non-conductive coating Thickness	Both ferrous and non-ferrous base material. Accuracies dependent on conductivity range, probe frequency and range of calibration.
Scanners	
Scanner compatibility	120 RPM to 3000 RPM
Dual Frequency (Viva II)	
Frequency adjustment	Two fully independent frequencies, operating modulated injection.
Mix options	F1-F2, F1+F2



Inspection

Detecting surface defects

Thickness measurement

Monitoring microstructural properties

Heat treatment evaluation

EddyWise .Co

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