

PROFOMETER PM-650 AL – ADVANCED CROSS-SCAN CONCRETE COVER METER

STANDARDS: BS 1881 Part 204, DIN 1045

The Profometer PM-650 AL extends the measuring modes of the Profometer PM-630 AL with the unique Cross-Line Mode and further analysis functions. The Cross-Line Mode allows users to measure the rebar of the first and second layer typically arranged in a rectangular mesh.

Advanced cover meter based on the new generation Profometer touchscreen with universal probe and scan cart. Enhanced correction factor for maximum cover accuracy on congested rebar arrangements. Dedicated functionalities for mapping concrete cover and for reporting any 2D rectangular rebar arrangement.

Features

- 2-Layer Neighboring Rebar Correction Artificial Intelligence (NRC AI)
- Cover calibration
- Zoom in to scale rebars according to your needs
- Display with cover curve or signal strength curve
- Signal strength spectrum for further evaluation
- Visual assistance for scanning speed and signal strength control
- Settings directly accessible on the measurement screen
- Graphical display of measured values and minimum cover set
- Change settings before and after storage
- 11 Languages and timezone supported
- PC Software; Profometer Link to download saved data to a PC for analysis and export to third party applications
- Connections; USB host / device and Ethernet
- Measurement Modes; Rebar location, diameter estimation and cover measurement and Data acquisition, One layer scans, tomographic view, advanced statistics
- Two layers scans, tomographic view, advanced statistics

Applications

- Locate rebars before drilling, cutting and coring
- Spot check of rebar cover
- Measurements on rough surfaces with scan cart
- Measuring wide areas over long distances
- Conformity check of new buildings
- Fire resistance assessment
- Investigation of unknown structures
- Complete, 2D and 3D imaging of rebar layout



PM-650 AL

Technical Specifications:

Product Code	PM-650 AL
Product Name	Profometer - Advanced Cross-Scan Concrete Cover Meter
Cover Measuring Range	Up to 185 mm (7.3")
Cover Measuring Accuracy	± 1 mm to ± 4 mm (0.04" to 0.16")
Measuring Resolution	Depending on diameter and cover
Path Measuring Accuracy on Smooth Surface	± 3 mm (0,12 inch) + 0.5 to 1.0 % of measured length
Display	7" color rugged touchscreen unit (800 x 480 pixels) with dual core processor
Diameter Measuring Range	Cover up to 63 mm (2.50 inch), Diameter up to 40 mm (# 12)
Diameter Measuring Accuracy	± 1 on single rebar
Memory	Internal 8 GB Flash memory
Regional Settings	Metric and imperial units and multi-language supported
Battery	3.6 V, 14.0 Ah
Battery Lifetime	> 8h (in standard operating mode)
Operating temperature	-10°C – 50°C
Humidity	< 95 % RH, non-condensing
IP Classification	Touchscreen IP54, Universal Probe IP67
Directives	CE certification
Dimensions	250 x 162 x 62 mm
Weight (of display device)	1525 g (incl. Battery)
Power Input	12 V +/-25 / 1,5 A