



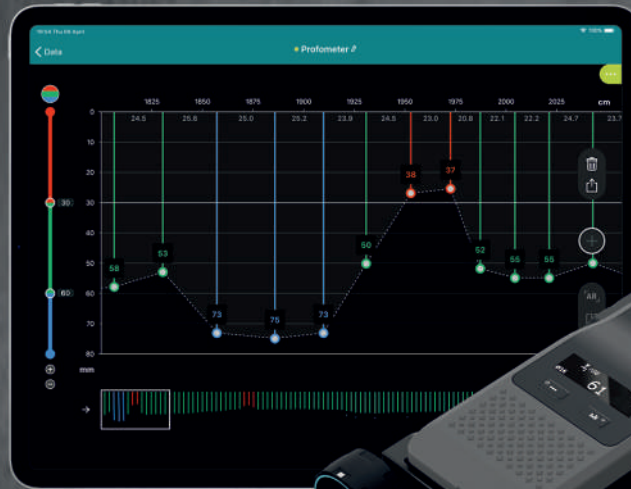
Precision



Productivity



Ergonomics



# PM8000

Profometer Rebar Locator & Cover Meter

PM8000 LITE

PM8000

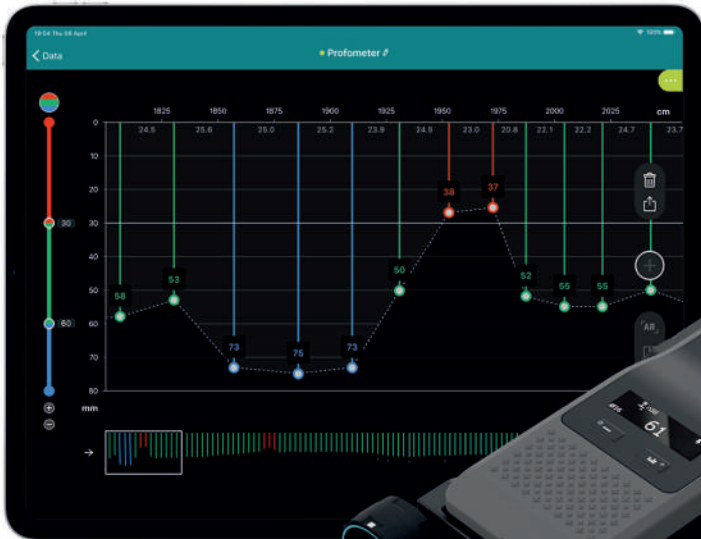
PM8000 PRO



# PM8000 Profometer Rebar Locator & Cover Meter



## Rebar Locator Cover & Diameter Measurement



Profometer PM8000 Portable Concrete Rebar detector, - the latest generation **2023 product** release by **Screening Eagle Switzerland (Formerly Proceq)** is the most powerful & precise instrument for inspection of concrete for **locating reinforcement bars**, their **Position, Spacing, Cover & Diameter of rebar**.

### PM8000 PRO

The Profometer PM8000 is offered in three product variants, “PM8000 LITE” , “PM8000” and “PM8000 PRO” .

**PM8000 LITE** Version provides only **spot measurement** of rebar detection in concrete structures.

**PM8000** Version provides **spot & line measurement** of rebar detection in concrete structures, for finding rebars prior coring and for **quality control**. The product also offers advanced statistics and comes with a 5-year subscription to software including **4-wheel cart**.

**PM8000 Pro** Full configuration instrument with **Profometer software** for **Spot, Line, Area mapping** of rebar with **Heat map, AI, Advanced statistics** and **Sophisticated Data Interpolation**.

**4 wheel cart with encoder** is provided for scans **upto 1 kilometer** with Auto spacing capture between rebars.

**The PM8000 Pro** is used with an ipad for utilising the full capability of **rebar mapping, geolocation &**

### PM8000

### PM8000 LITE



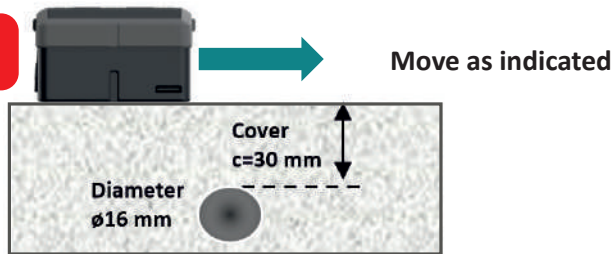
# PM8000 Profometer Rebar Locator & Cover Meter



## Rebar Locator Cover & Diameter Measurement

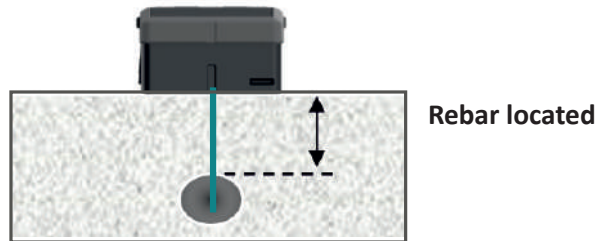
Place the machine on the wall

### How to Find Rebar



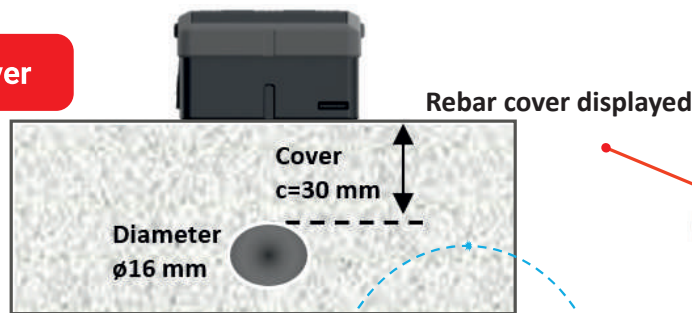
The instrument LED indicators will guide the user to move left or right, in the direction of rebar

### Rebar Position



The instrument LED indicators will become stable once rebar is located

### Diameter & Cover

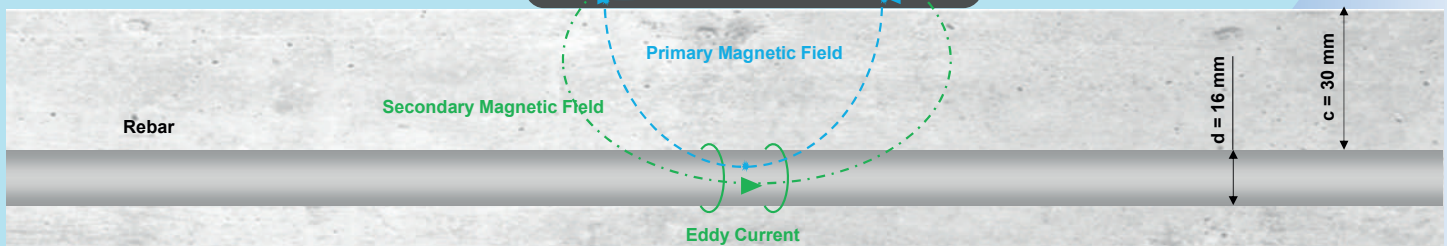
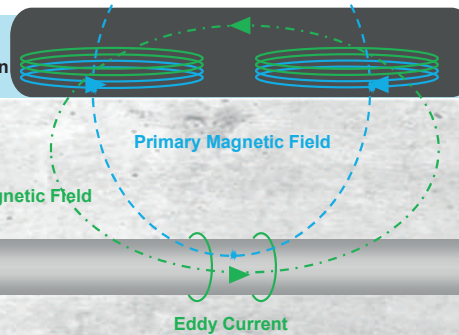


Rebar dia displayed at the push of a button

Rebar Cover & Dia measurement function is available in both PM8000 Pro and PM8000 basic versions.

### Operating principle

Electromagnetic Induction



## Comprehensive Visualization Intelligent, Real-time Software For Concrete Structure Inspection

See into concrete & clearly visualize **rebars** with **accurate cover & diameter values**, dowels or any metallic object effortlessly & reliably.

Get insightful **2D imaging**, **Augmented reality**, **Heat maps** & **Advanced stats** for reporting & collaboration anywhere at anytime.



• Augmented reality



Cover/Diameter  
Measurement View

# PM8000 Profometer Rebar Locator & Cover Meter



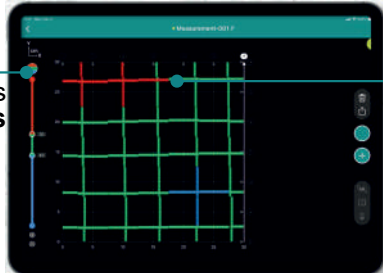
**Comprehensive Visualization, Intelligent Real-time Software For Concrete Structure Inspection ;**

## AREA SCAN

### Cover/Diameter Grid View

#### Threshold slider

Set quickly the thresholds with **different colors** customization.

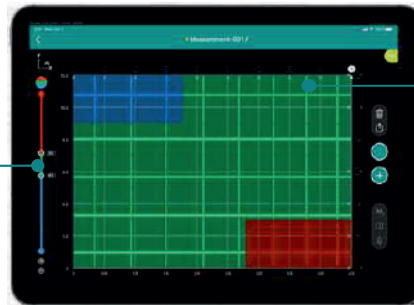


#### High resolution zoom

Vertical & horizontal zoom for getting details in large area scan.

#### Threshold slider

Set thresholds quickly  
Intuitive visualization by **color**.



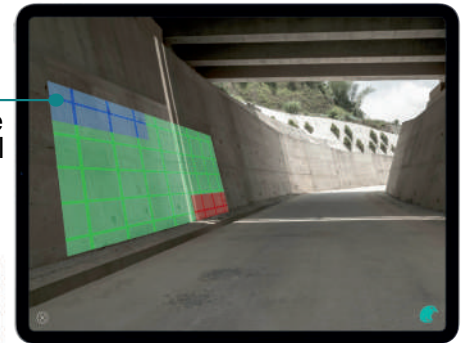
#### HeatMap View

Mapping the **healthy** or **unhealthy** areas for the **durability** assessment.

- Automatic data collection of concrete cover when rebar is detected.
- Line scan measurement upto 1km.
- Area scan measurement for productive & flexible data collection.
- Concrete heat maps showing healthy, weak & over protected areas.
- AR ( Augmented reality) heat map to visualize reinforced concrete health.
- Logbook with pictures, geolocation & voice memos.
- Neighboring rebars corrections for maximum precision in congested area

### Augmented Reality

**Visualize better** by superposing the heat map on the real structure. Ideal for discussion about necessary repair in order to extend the asset **working & integrity** life.



### Cover/Diameter Measurement View

## LINE SCAN

#### Threshold slider

Set thresholds quickly  
Intuitive **visualization** by **color**.



#### Color Coded Results

**Evaluate** the **concrete** cover fast and intuitive.

#### Distance overview

Quickly select to the **region** you want to see.



#### Signal Strength View

Allow to detect any singularity such as **rebars** that are too close or **presence** of **unexpected metallic** object.

# PM8000 Profometer Rebar Locator & Cover Meter



## Rebar Locator Cover & Diameter Measurement

Product Selection guide		PM8000 LITE	PM8000	PM8000 PRO
Technology		Eddy current		
Display on Sensor		Yes, High-contrast OLED screen    Size:(45mm x 13mm)		
Wireless connectivity to ipad		N/A	Yes	
Profometer App software		N/A	Profometer App : Statistics for on spot measurements sequence & line scan. Can include info such as pictures geolocation (If ipad is used)	Profometer Pro App: For Data Processing of Line & Area Scan,Spot measurements, advanced processing techniques & cloud access
App license validity		N/A	5 years	
4 Wheel scan cart for distance measurement including rebar spacing	With built in encoder	No, (Instrument only for spot scan)	Yes	
	Encoder accuracy		+/- 0.5mm / 0.02 in + 0.5% of measured length	
	Max scanning speed		0.5m/s - 1.7 ft / s	
	Max line scan distance		1km / 0.6 miles	
	Area scanning upto		No	10'000m2 / 107'000 ft2
Wireless connectivity to ipad for data processing		N/A	Yes Ipad offered as extra	
Rebar cover measurement	Rebar cover measuring depth	Upto 185mm depending on bar size & spacing		
	Rebar cover measuring accuracy	+/-1 mm / 0.04 in to 4 mm /0.16 in depending on depthon depth		
	Concrete cover threshold control	N/A	Concrete cover threshold slider with colour palette	
Rebar diameter measurement	Rebar diameter measurement	Yes		
	Rebar diameter measurement depth	Estimated for cover upto 63 mm (depending on bar, size & spacing		
	Rebar diameter measuring accuracy	+/-1 mm rebar size on single rebar, subject to calibration having been conducted prior		
Measurement mode	Spot	Yes		Yes
	Line Scan	No	Yes	
	Area Scan	No		

**Optional Accessories: Telescopic Rod & Ipad Holder**

# PM8000 Profometer Rebar Locator & Cover Meter



## Rebar Locator Cover & Diameter Measurement

Review modes	Statistics	No	Yes	Yes
	Line scan view		Yes	
	Area Scan View	No	No	
	Signal strength view		Yes	
Advanced visualisation features	Augmented reality Simulation of rebar structure	No	No	Yes
	Heatmaps			
	DBV : Advanced statistics to evaluate the risk of rebar corrosion			
On site annotations	Add images, text notes on site information, geolocation of site,voice notes	N/A	Photos, geolocation & voice notes	Markers, Yes
Image processing	Correction for neighbouring rebars in 1 <sup>st</sup> layer	Yes		
	Correction for neighbouring rebars in 2 <sup>nd</sup> layer	No	Yes	
	Alignment of rebar position	No	Yes	
Export formats		CSV	CSV, URL	CSV, URL, DXF, Heatmap, AR
Reporting		N/A	Workspace integration for on the cloud data saving, automatic logbook and instant report generation share via URL	
Memory:		50 x 999= 49950 Objects	50 x 999= 49950 Objects(Additional Ipad Storage)	
Ipad		N/A	Recommended	
Suggested Ipad note : Ipad not included as part of standard supply, to be procured separately by buyer.		N/A	iPad with iOS 11.0 and higher) Screen size: From 7.9" to 12.9" Resolution: Up to 2732-by-2048 Memory: Up to 2TB Weight: Downto 301 g / 10.6 oz Camera: Up to 12MP Wide and 10MP Ultra Wide	
Weight		300g	690g	
Size		Sensor :190x75x45mm	Sensor: 250x130x45mm	
Power supply		2 x AA Rechargeable NiMH batteries, with charger		



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