



# HUMBOLDT

## HC-3073, HC-3072 and HC-3071 Rebar and Cover Meters



HC-3073 / HC-3072 shown with Apple® iPad (not included)

### HC-3073 & HC-3072 Rebar Diameter & Cover Meters

The HC-3073 (Profometer PM8000 Pro) and HC-3072 (PM8000) rebar and cover meters provide a wireless solution for spot measurements as well as line and area scanning. They are the cover meter for experts, from rebar detection to area scanning and provide precise measurements with unique advanced visualization.

The Profometer PM8000 rebar and cover meters are used to locate rebar, measure the concrete cover of rebar, and estimate rebar diameters in concrete structures. The sensor can detect individual rebar and determine concrete cover at depths up to 7.3" (185mm), with cover accuracy of  $\pm 0.16$ " (4mm) or better. Bar diameters can be measured at depths up to 2.5" (63mm) with an accuracy of  $\pm$  rebar diameter. The maximum size for an area scan is 107,000ft<sup>2</sup> (10,000m<sup>2</sup>), and linear scans can be performed for lengths up to 0.6mi (1km).

The PM8000 Series rebar and cover meters provide sophisticated data interpolation and intelligent auto-mode to eliminate error margin. They are compact, ultra light-weight and provide a fully-wireless operation designed for use in rough environments. They provide instant availability of data analytics and visualization in the field, plus data synchronization and collaboration.

### Advanced Visualization Tools

The HC-3073 (PM8000 Pro) comes with software, which includes all the measurement modes provided by the basic unit (HC-3072) and in addition, these: auto and manual rebar spacing, 1st and 2nd layer neighboring rebar correction, line scan views, and area scan views such as concrete cover and rebar diameter view, heat map, and AR heat map.

The HC-3072 (PM8000) comes with software, which provides measurement modes for cover and diameter spot measurement, line scan, neighboring rebar correction, advanced statistics, access to the online Workspace, and CSV and URL data exporting.

Both Premium and Basic software includes logbook, data sharing, data exporting, and data synchronization features.



HC-3073/HC-3072

### HC-3073 (PM8000 Pro Meter)

Profometer PM8000 Pro Rebar Diameter & Cover Meter wireless solution for spot measurements, line & area scanning. The cover meter for experts, from rebar detection to area scanning. Precise measurements with unique advanced visualization. The Profometer PM8000 Rebar Diameter & Cover Meters are used to locate rebars, measure the concrete cover of rebars, and estimate rebar diameters in concrete structures. The sensor can detect individual rebars and determine concrete cover at depths up to 7.3in (185mm), with cover accuracy of  $\pm 0.16$ in (4mm) or better. Bar diameters can be measured at depths up to 2.5in (63mm) with an accuracy of  $\pm$  rebar diameter. The maximum size for an area scan is 107,000ft<sup>2</sup> (10,000m<sup>2</sup>), and linear scans can be performed for lengths up to 0.6mi (1km).

- Sophisticated data interpolation and intelligent auto-mode eliminate error margin.
- Compact, ultra light-weight and fully wireless designed for use in rough environments
- Instant availability of data analytics and visualization in the field, data synchronization and collaboration

#### HC-3073— Profometer Pro includes:

the components below and software with all the capabilities of the Basic model plus additional features, such as: area scan, heatmaps, augmented reality heatmaps, DBV statistics, and the ability to export data in DXF.

- Profometer Unit
- sensor
- cart
- 2x rechargeable NiMH battery
- battery charger
- carrying strap
- chalk
- quick start guide
- carrying case

### HC-3072 (PM8000 Meter)

Profometer PM8000 Rebar Diameter & Cover Meter wireless solution for spot measurements. The Profometer PM8000 Rebar Diameter & Cover Meters are used to locate rebars, measure the concrete cover of rebars, and estimate rebar diameters in concrete structures. The sensor can detect individual rebars and determine concrete cover at depths up to 7.3in (185mm), with cover accuracy of  $\pm 0.16$ in (4mm) or better. Bar diameters can be measured at depths up to 2.5in (63mm) with an accuracy of  $\pm$  rebar diameter. The maximum size for an area scan is 107,000ft<sup>2</sup> (10,000m<sup>2</sup>), and linear scans can be performed for lengths up to 0.6mi (1km). The advanced cover meter, from rebar detection to line scanning. Precise rebar cover measurements and diameter estimation with great clarity.

- Unrivalled precision thanks to a sophisticated data interpolation & intelligent auto-mode
- Superior ergonomics with compact, ultra light-weight and fully wireless sensor
- Unmatched productivity with instant availability of data analytics and visualization

#### HC-3072— Profometer Basic includes:

the components below and software capable of cover and diameter spot measurement, line scan, neighboring rebar correction, advanced statistics, access to the online Workspace, and CSV and URL data exporting.

- Profometer Unit
- sensor
- cart
- 2x rechargeable NiMH battery
- battery charger
- carrying strap
- chalk
- quick start guide
- carrying case

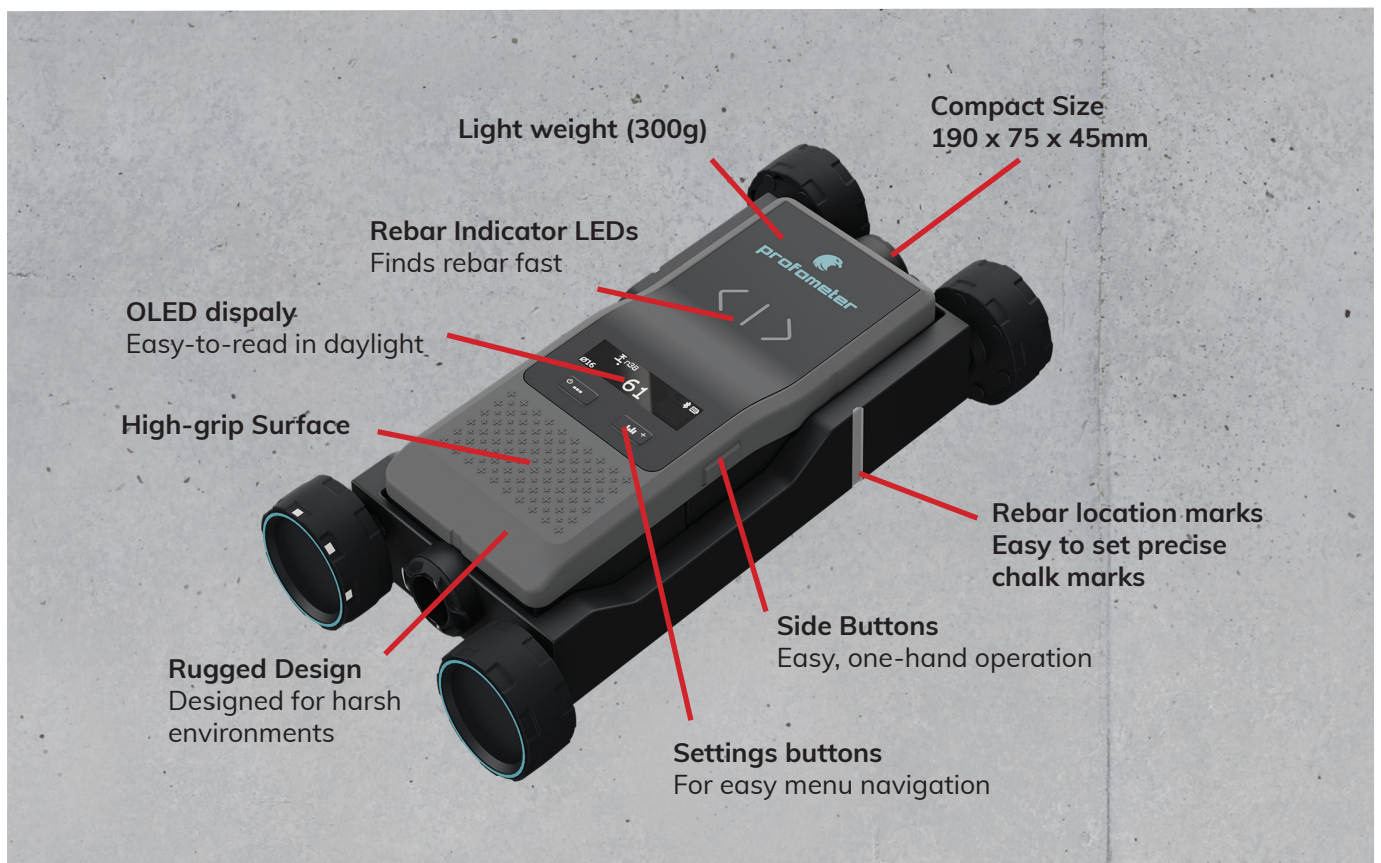
## Specifications: HC-3073 & HC-3072

Instrument Specifications	
Technology	Eddy-current
Connection	Wireless
Cover Measuring Depth:	Up to 185 mm / 7.3"
Cover Measuring Accuracy:	+/- 1 mm / 0.04" to 4 mm / 0.16" depending on depth
Rebar Diameter Measuring Depth:	up to 63 mm / 2.5"
Rebar Diameter Measuring Accuracy:	+/- rebar size
Encoder Accuracy:	+/- 0.5mm / 0.02" + 0.5% of measured length
Max Scanning Speed:	0.5m/s - 1.7ft/s
Max Scan Distance:	1km / 0.6 miles
Max Area Scan:	10'000m <sup>2</sup> / 107'000 ft <sup>2</sup>
Display:	High-contrast OLED screen
Battery:	2 x AA (NiMH) rechargeable or non rechargeable, Removable, Flight-safe, 8 hours autonomy, USB-C power bank (not included)
Dimensions:	T50 x 130 x 45mm / 9.8 x 5.1 x 1.8" (with cart) 190 x 75 x 45mm / 7.5 x 3.0 x 1.8" (without cart) Weight 690g / 1.5lb (with cart) 300 g / 0.7lb (without cart)

## Software App Feature Comparison Between Models

	HC-3073 (PM8000 Pro)	HC-3072 (PM8000)
<b>Measurement Modes</b>	Spot Spot data import Line scan Area scan Cover offset	Spot Spot data import Line scan <b>(NEW)</b> Cover Offset <b>(NEW)</b>
<b>Rebar Spacing Measurements (1st layer)</b>	Auto rebar spacing Manual rebar spacing	Manual rebar spacing
<b>Neighboring Rebar Correction (NRC)</b>	1st Layer NRC 2nd Layer NRC	1st Layer NRC 2nd Layer NRC <b>(NEW)</b>
<b>Statistics</b>	Standard statistics DBV advanced statistics	Standard statistics
<b>Line Scan</b>	Concrete cover & rebar diameter view Signal strength view	Concrete cover & rebar diameter view Signal strength view
<b>Area Scan</b>	Concrete cover & rebar diameter view Heatmap AR = heatmap	
<b>Logbook</b>	Measurements data Instrument information Audit trail: Coconfiguration log Meta data (images, Position, Text notes, audio notes)	Measurements data Instrument information Audit trail: Coconfiguration log Meta data (images, Position, Text notes, audio notes)
<b>Data Sharing</b>	Sharing with URL	Sharing with URL
<b>Data Exporting</b>	Direct CSV HTML JPG (Snapshot)	Direct CSV HTML JPG (Snapshot)
<b>Data Synchronization</b>	Screening Eagle Workspace, automatic Screening Eagle Inspect Integration	Screening Eagle Workspace, automatic Screening Eagle Inspect Integration

## Build Features of the Profometer PM8000 Series Rebar Diameter & Cover Meters



# Profometer PM8000



HC-3071

## Features:

- Compact, ultra light-weight - designed for use in rough environments
- Spot measurement (Cover Meter, Diameter Estimation)
- Neighboring Rebar Correction 1st layer

## HC-3071— (Profometer PM8000 Lite) includes:

- PM8000 Cover Meter (no cart)
- 2x rechargeable NiMH battery
- Battery charger
- Carrying Strap
- Chalk
- Quickstart Guide
- Carrying Case

## HC-3071 (PM8000 Lite Meter)

The HC-3071 (PM8000 Lite) is the powerful successor to the original Profoscope and completes the Profometer family. Designed and produced in Switzerland for the highest quality and performance in professional rebar detection. Find rebar, determine the cover and estimate bar diameter – fast and at the press of a button.

The HC-3071 Cover Meter is used to locate rebar, measure the concrete cover of rebar, and estimate rebar diameters in concrete structures. The sensor can detect individual rebar and determine concrete cover at depths up to 7.3" (185mm), with cover accuracy of  $\pm 0.16$ " (4mm) or better. Bar diameters can be measured at depths up to 2.5" (63mm) with an accuracy of  $\pm$  rebar diameter. The maximum size for an area scan is 107,000ft<sup>2</sup> (10,000m<sup>2</sup>), and linear scans can be performed for length up to 0.6mi (1km).

Profometer Accessories	
Telescopic rod & Tablet Holder for PM8000 Profometer	HC-3071.7
Tablet holder with Chest Strap for PM8000 Profometer	HC-3071.8

	HC-3073	HC-3072	HC-3071
<b>SPOT</b> <b>Rebar location, Find the safe spot to drill, Check minimum cover, Estimate diameter, Detect metal</b> - Statistics on spot measurements - Provide additional info such as pictures, geolocation			
<b>SCAN</b> <b>Durability &amp; structural resistance assessment, Large quality control</b> - Mapping concrete cover, rebar spacing & diameter values - Advanced statistics and heat maps - Provide additional info such as pictures, geolocation			



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