

X-scan PS 1000



Non-destructive inspecting of concrete structures, e.g. locating reinforcement or post-tension cables.
(Post-tension cable inspection applies to PS 1000 only)



Locating objects in concrete structures before drilling penetrations or breaking out openings.

Ferrosan detection systems

Ordering designation	Item no.
Ferrosan system PS 250 with Scanner PS 200 S, Monitor PSA 100, Infrared adapter PSA 55, memory card, headset, required batteries and chargers, reference grids, data cable, PROFIS Ferrosan PC software and operating instructions packed in a Hilti case	① 3499112
Ferrosan kit PS 200 S with Scanner PS 200 S, Infrared adapter PSA 55, Battery pack PSA 80, mains adapter, reference grids, data cable, PROFIS Ferrosan PC software and operating instructions packed in a Hilti case	2044474
Ferrosan PS 200 S with Scanner PS 200 S, Battery pack PSA 80, mains adapter and operating instructions packed in a Hilti case	377649

X-Scan detection systems

X-Scan PS 1000 system with X-Scan scanner PS 1000, Monitor PSA 100, headset, 3 battery packs and 2 mains adapters, torque wrench, connecting cable for data transfer, reference grids, memory card, PROFIS PS 1000 PC software and operating instruction packed in a wheeled Hilti case	② 3484549
X-Scan PS 1000 with X-Scan scanner PS 1000, (2) Battery packs PSA 81, mains adapter, reference grids, torque wrench, memory card, PROFIS PS 1000 PC software and operating instructions packed in a Hilti case	③ 3484548
X-Scan PS 1000-B with X-Scan scanner PS 1000-B, battery pack, mains adapter, (5) Reference grids PSA 13, torque wrench, data module and operating instructions packed in a Hilti case	3503609

Transpointers

Transpointer PX 10 with receiver, (2) hand straps, Adhesive putty PUA 91, Adhesive strips PUA 92, (2) 9 V alkaline batteries and operating instructions packed in a Hilti case	④ 273123
Transpointer kit PX 10 with receiver, (2) hand straps, Adhesive putty PUA 91, Adhesive strips PUA 92, (2) 9 V alkaline batteries, marker, Slope adapter PXA 70 and operating instructions packed in a Hilti case	273125

Detection accessories

	PS 250	PS 1000		
Brush PSA 75	■	■	⑤	2013776
Adhesive tape PUA 90	■	■	⑥	319362
Marker pen set PUA 70 , 12 pcs	■	■	⑦	340806
Ferrosan headset for voice recording with the monitor	■	■	⑧	305143
Monitor PSA 100 with soft case, battery pack and AC adapter	■	■	⑨	2006082
Reference grid PSA 11 , 23.5 x 23.5 in (5 pack)	■	■	⑩	377655
Reference grid PSA 13 , 23.5 x 23.5 in (5 pack)	■	■	⑪	2006084
Reference grid PSA 15 , 47 x 47 in (2 pack)	■	■	⑫	2006086
Memory card PSA 95	■	■	⑬	2006184
Extension PSA 70 for Scanner PS 1000	■	■	⑭	2006199
Case for X-Scan PS 1000 system	■	■	⑮	2006201
Battery charger PUA 80 for the Battery pack PSA 80	■	■	⑯	377460
Mains adapter PUA 81 for Batteries PSA 81 and PSA 82	■	■	⑰	2006089
Car battery plug PUA 82 for Batteries PSA 81 and PSA 82	■	■	⑱	2006180
Battery pack PSA 80 for Scanner PS 200	■	■	⑲	377472
Battery pack PSA 81 for X-Scan PS 1000	■	■	⑳	2006182
Battery pack PSA 82 for Monitor PSA 100	■	■	㉑	2006183

Hilti. Outperform. Outlast.

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Hilti (Canada) Corp. | 1-800-363-4458 | www.hilti.ca



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Ferrosan PS 250 and X-Scan PS 1000

INSIDE INSIGHT.

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Ferrosan PS 250



Rebar detecting and verifying for acceptance inspections, changes of building use or post-installed rebar connections.



Measuring of concrete coverage for acceptance inspections, renovation work and quality checks.

Applications

- Rebar verification and analysis
- Checking concrete coverage over large areas for acceptance inspections and structural repair work

Advantages

- Scans large areas of concrete quickly and easily
- Provides accurate depth of cover measurements for reinforcement at depths up to 6-1/4 inches (160mm)
- Records scan data automatically over lengths of up to 100 feet (30m)
- Displays a clear 2D image of the reinforcement on the monitor for on-the-spot structural analysis and depth of cover assessment

Highlights

- Hilti PROFIS Ferrosan PC software for professional scan evaluation and data management (included)
- Subsequent data analysis on a PC
- Collective evaluation of several individual scans with the same parameters, use of various date formats, and more
- Production of statistics and assessment reports

Hilti PROFIS Ferrosan MAP

- Capable of combining multiple scans for visual presentation (in 2D/3D views)
- Provides a clear overview of areas up to 150 feet x 150 feet (45m x 45m)
- Statistical assessment and graphical visualization of depth of cover for complete area or by rebar layer
- 3D data export different formats (.dxf, .dae, .ply, .x3d)

Take a quick look beneath the surface.

The Hilti Ferrosan PS 250 provides a non-destructive means of locating reinforcing bars and measuring their depth of concrete cover. This complete, easy-to-use cordless detection system, consisting of a scanner, monitor and PC software can also estimate the diameter of detected rebar. Employing the induction principle, the scanner locates rebars accurately and reliably within concrete structures. The results of scans are displayed on the portable monitor unit as easily interpretable 2D images. Scan data is recorded and can be transferred to a PC for further analysis, creation of assessment reports and for archival purposes.



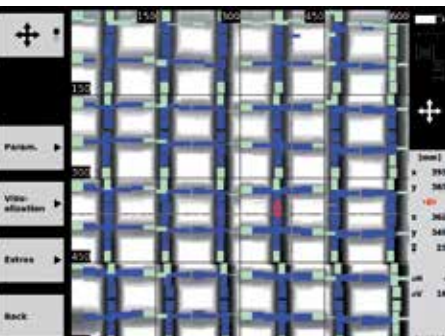
Technical data

Detection range	max. 6-1/4" (160 mm)
Localization accuracy	± 1/8" (± 3 mm)
Depth measurement accuracy	± 3/64" (± 1 mm)
IP protection class	IP 54 as per IEC 529 std
Operating temperature range	14 to 122°F (-10 to + 50°C)
Battery life, scanner / monitor	8 h NiMH / 2 h Li-Ion
Dimensions / weight, scanner	10.2x5.2x5.2 in/3 lbs
Dimensions / weight, monitor	11.5x8.2x2.6 in/5 lbs

We reserve the right to make technical changes.

Updated Features

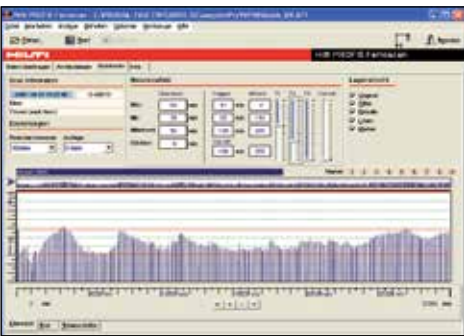
- 3D visualization of Imagescan on Monitor PSA 100
- 3D export format of scan data from PROFIS Ferrosan (export formats: DXF, DAE, PLY, X3D)
- 3D Imagescan data can be imported into PROFIS Anchor to help identify safe anchor locations
- Combine ferrosan data with X-Scan data in PROFIS PS 1000 software for visualization in 2D and 3D views



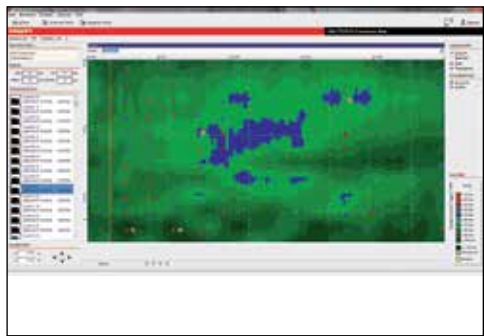
Imagescan displayed on the Monitor PSA 100 for on-the-spot analysis of reinforcement (location, depth, diameter).

The two systems compared

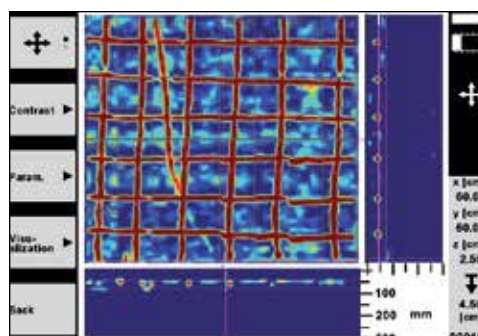
Hilti Ferrosan			Features and Benefits	Hilti X-Scan		
System PS 250	Kit PS 200 S	Scanner only PS 200 S		System PS 1000	PS 1000	PS 1000-B
■	■		2D Analysis on the handheld scanner	■	■	■
			2D analysis on the Monitor PSA 100	■	■	
			3D Analysis on the Monitor PSA 100	■	■	
■	■		Cable-free transfer of scan data to Monitor PSA 100			
■	■	■	Quickscan detection	■	■	■
■	■		Quickscan recording	■	■	
■	■		Imagescan (24" x 24") (60 x 60 cm)	■		■
			Imagescan (48" x 48") (120 x 120 cm)	■	■	
■	■		Blockscan mode (72" x 72") (180 x 180 cm)			
■	■		Accurate depth of cover			
■	■	■	Rebar diameter estimation			
			Object detection (ferrous, non-ferrous, plastic, conduit, post tension cable)	■	■	■
			Live wire detection	■	■	
			Detection range			
■	■		Report generation capabilities on-site with Monitor PSA 100	■	■	
■	■		Compatible with PC software (PROFIS Ferrosan or PROFIS PS 1000)	■	■	
			System Components			
■	■	■	Scanner (PS 200 S or PS 1000)	■	■	■
■			Monitor PSA 100	■		
■	■		Transfer device PSA 55 (Scanner to PC)			
			PROFIS PS 1000 PC Software	■	■	
■	■		PROFIS Ferrosan PC Software			
■	■		Reference grids PSA 11 (5)			
			Reference grids PSA 13 (5)	■	■	■
			Reference grids PSA 15 (2)	■	■	
			Services			
■	■	■	Hilti Lifetime Service (2 year no cost)	■	■	■
■	■	■	Hilti Calibration Service (recommended once per year)	■	■	■
	■	■	Hilti Fleet Management (60 month)	■	■	
			Available via Tools On Demand (Monthly usage fee)	■		
3499112	2044474	377649	Item Number	3484549	3484548	3503609



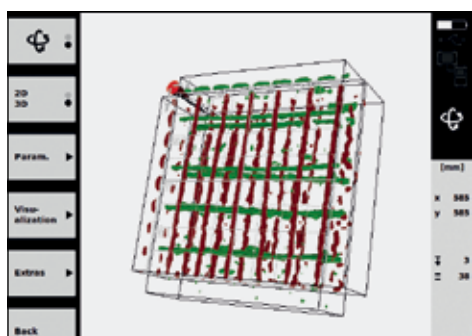
Quickscan data analysis of depth of concrete cover, displayed using the Hilti PROFIS Ferrosan PC application.



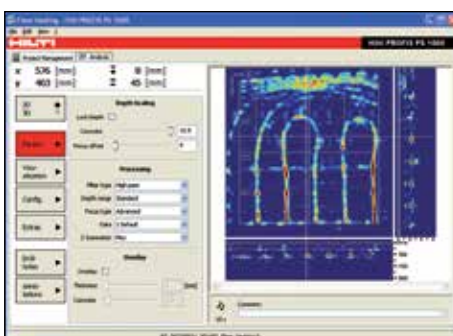
Ferrosan MAP combines multiple scans in a large-area view showing where depth of cover is inadequate (with statistics).



2D representation of an Imagescan shown as a plan view and cross-sectional views on the Display PS 1000.



3D Imagescan (plan views, cross-sectional views) for on-the-spot visualization and analysis on the Monitor PSA 100.



Advanced software with comprehensive evaluation and analysis features for the creation of reports and documentation.

Updated Features

- Quickscan detection expert mode for increased detection depth capabilities
- Drill hole indicator with true diameter in top and cross sectional views on Monitor PSA 100 and PROFIS PS 1000 Premium
- 3D export of scan data from PROFIS PS 1000 (export formats: DXF, DAE, PLY, X3D)
- Combine Ferrosan data with X-Scan data in PROFIS PS 1000 software for visualization in 2D and 3D views
- Imagescan data can be imported into PROFIS anchor to help identify safe anchor locations



See for yourself, with real inside insight.

The Hilti X-Scan PS 1000 detects reinforcing bars, pre- and post-tensioning cables, metal pipes, plastic pipes, electric cables and glass-fiber cables in next to no time – even over large concrete areas. Scan results are presented on the X-Scan display for immediate analysis or can be transferred to the Monitor PSA 100 for further evaluation. Thanks to its ease of operation, on-site handling and the easily interpretable 3D images of concealed objects it produces, the Hilti X-Scan PS 1000 takes non-destructive structural inspection into a new era.



Performance data

Maximum detection range	up to 12 in (300mm); PS 1000: up to 18 in (450mm) in RAW Data view
Localization accuracy	± 7/16 in (± 10 mm)
Depth measurement accuracy	± 7/16 in (± 10 mm)
IP protection class	IP 54 as per IEC 529 std
Operating temperature range	14 to 122°F (-10 to + 50°C)
Battery life, scanner / monitor	4 h / 2 h with Li-ion battery pack
Dimensions / weight, scanner	12.5x7.5x5.6 in/5.5 lbs
Dimensions / weight, monitor	11.5x8.2x2.6 in/5 lbs

We reserve the right to make technical changes.

Applications

- Non-destructive inspection and detection of concealed objects in steel-reinforced and pre-stressed concrete structures
- Detecting metal or plastic pipes and electric cables to help avoid damage when drilling
- Locating rebars for post-installed rebar connections

Advantages

- Locates objects of various kinds in concrete structures, even beneath reinforcing mesh
- Displays a clear, real-time 2D image directly on the Hilti PS 1000 display
- Displays 2D and 3D plan view or cross-sectional images in color on the PSA 100 monitor unit for further on-the-spot evaluation of the data or printing

Highlights

Hilti PROFIS PS 1000 PC software for professional scan evaluation and data management (included)

- Full data processing to 3D models, including 2D and 3D plan views or cross-sectional images
- Advanced processing with comprehensive evaluation and analysis features using different migration types as well as various calculation and visualization parameters
- Easy creation of assessment reports and documentation

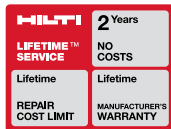
Hilti PROFIS PS 1000 Premium

- EM sensor activation and overlay in 2D/3D
- Ferrosan data overlay in 2D and 3D (three sensors in one image) for depth calibration and material classification
- Grid coordinate entry and drill hole markers
- 3D data export in different formats (.dxf, .dae, .ply, .x3d)

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We manage your tools. So you can manage your business.



Outstanding services for a product lifetime. Some limitations apply. Contact Hilti for details.



Regular checks for reliable results.

Tools On Demand: A special service for eligible fleet customers