METAL LOCATION in CONCRETE





Product Code

UTC-2082 Rebar Detector
UTC-2085 X Scan Rebar Detector

UTC-2082 and UTC-2085 Rebar Dedectors are designed for locating reinforcing bars in concrete and other non-ferritic construction materials, and for measuring the cover and estimating the diameter of the topmost layer of the reinforcement. The detecting data can be directly transferred to a PC.

Features for UTC-2082

- Integrated display provides rebar layout visuals in top view and sectional view for on-the-spot structural analysis
- Smart algorithm helps accurate depth measurements for rebar
- sensor area enables quick and easy scan over large areas
- scan data for documentation and structural analysis

Applications for UTC-2082

- Verification and analysis for 1st layer rebar
- Checking concrete cover over large areas for structural repair work
- Building acceptance inspections and quality control
- Generation of structural assessment reports including statistics and visual presentation in 2D/3D views of areas.

Features for UTC-2085

- Provides real-time view of the inside of concrete structures and generates accurate images automatically for direct on-site evaluation
- Three scan modes for specific applications – Quickscan detection, Quickscan recording and Imagescan
- Displays a top view and cross sections of the scan in 2D and 3D for easy object mapping and multilayer identification
- Compact all-in-one design offers easy operation, plus unmatched data visualization means hundreds of square meters of concrete can be inspected in a day
- Powerful monitor for in-depth, on-site scan analysis plus PC software for subsequent data evaluation and documentation

Applications for UTC-2085

- Locating rebars, tendons, metal and plastic conduits, glass-fiber cables, voids and wood in dry concrete structures at depths of up to 300 mm
- Minimizing hitting concealed objects when drilling anchor holes or through holes, breaking out openings and in diamond coring and sawing work
- Rebar extension (post-installed rebar connections) in structural applications
- Inspection of floors, decks, slabs, balconies, etc. in structures such as tunnels, bridges and buildings
- Detection of voids and cavities

Reporting for UTC-2085

- Easy creation of documents for reporting concrete cover, rebar diameter, spacing and localization
- Ferroscan data overlay in 2D and 3D for depth calibration and material classification
- Placementof drill holes, annotations and snapshots

Technical Specifications	UTC-2082	UTC-2085
Maximum depth for measurement of coverage	200 mm	300 mm depending on base material condition (damp or dry) and object class
Localization accuracy	1 % +/- 3 mm	+/- 10 mm
Accuracy of cover measurement to a depth ≤ 50 mm	+/- 1 mm	+/- 10 mm (+/- 1% of length)
Rebar Diameter	4 mm to 57 mm	Max. 80mm
Minimum distance between two neighbouring objects	30 mm	40 mm
	+/- 1 mm at 40 mm	< 100 mm: +/- 10 mm > 100 mm: +/- 15%
Memory Capacity	3 GB	approx. 200 Scans (SD), approx. 10 scans (internal flash memory)
	4 h	4 h
Screen	LCD	LCD
	IP54	IP54
	-10 °C - (+50 °C)	-15 °C - (+50 °C)
Dimensions	284x163x154 mm	318x143x190 mm
Weight (w/batterry)	1.95 kg	2.5 kg