

Technical Specification of Hand held Electromagnetic wave-based Scanner

Features:

- Should be suitable for structural applications
- Able to locate rebars
- Spot check of rebar cover
- Advanced software
- Complete 2D and 3D imaging of rebar layout
- Thickness measurement from a single side
- Should be full keypad control on the antenna top provides remote control of user interface
- Structure inspection – bridges, monuments, walls, towers, tunnels, balconies, garages, decks
- Condition assessment – map relative concrete condition for rehab planning
- Measure slab thickness
- Void localization

Specifications:

- Operating frequency range: 0.2 GHz to 4.0 GHz
- Depth range: at least 50cm
- Scan interval:
 - Normal density: 4 scans/cm
 - High Density: 8 scans/cm
 - Max. Scanning Speed: 50-60 cm/sec
 - Max. Scan distance: 20m at normal density
 - Horizontal measurement (precision): 1 mm
- IP Rating: IP 65
- Working temperature range: 0° C to +40° C or better
- RH < 95%, non condensing
- Display modes: Line scan, 3D Grid
- Windows based 2-D & 3-D post processing software
- Should have minimum 6.5-inch HD color Touch screen and controlled by built in function keys
- Li-ion Two batteries (each battery should run 2.5 hours or more)