

R660 HIGH PERFORMANCE INTEGRATED REBAR DETECTOR



For Rebar Position, Cover & Dia Measurement in Larger Reinforced Concrete structures

The R660 Integrated Rebar Detector is one of the most powerful and advanced rebar detectors ideal for large construction or retrofit jobs based on following key features :

- A unique 4 wheel design probe with built in encoder
- Multi coil technology that allows rebar position to be located in real time accurately and fast.
- Multi-gear stirrup spacing correction function to enable more accurate measurement of cover thickness

The R660 is IDEAL For use on Larger Structures : Upto 65 Meter of reinforced concrete surface can be scanned in one go, allowing FAST acquisition of rebar data including:
Rebar location, cover, spacing between rebar & rebar dia on structures such as Bridges, Large Commercial or Industrial Buildings amongst others.



Features:

Extremely Powerful for High Productivity:

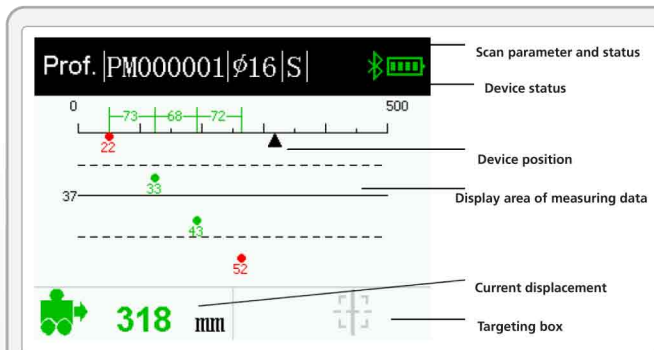
The instrument allows the operator to view in **real time during acquisition of:**

- **Rebar Position.**
- **Spacing between rebars in mm automatically calculated, based on built in encoder.**
- **Cover thickness.**
- **Diameter Detection:** Estimate Rebar diameter at the touch of a button.
- Large **3.2" LCD Color display screen.**
- During acquisition, approaching or adjacent rebar position is estimated and displayed on display in real time – Indicated by a Measuring data interface sign and an indicator LED light – both at the same time allowing operation by any level of operator to become quick and easy .
- **Three methods to confirm device is directly above rebar** : When the device is directly above the rebar, centre line and targeting box coincide , a red indicator light is illuminated accompanied by a buzzing sound indicator.
- **Storage and Data transfer** : The R660 Instrument also contains Large **Data Storage** upto **3584 Objects** and Data transfer capability via USB or Bluetooth.

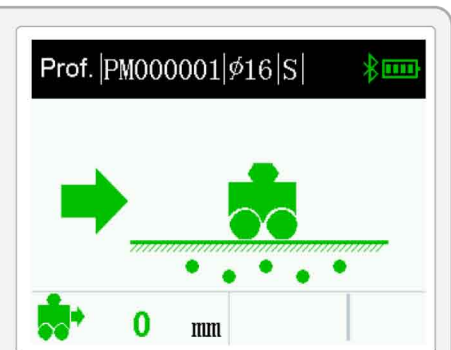


Operating Modes :

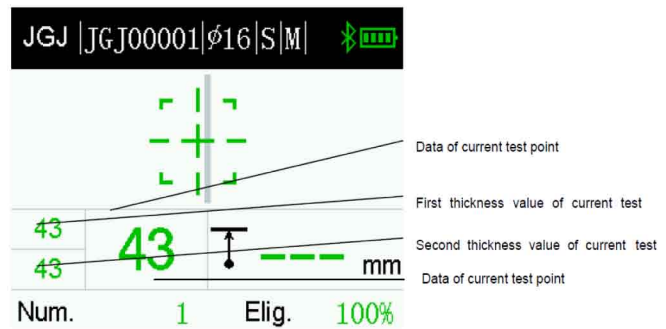
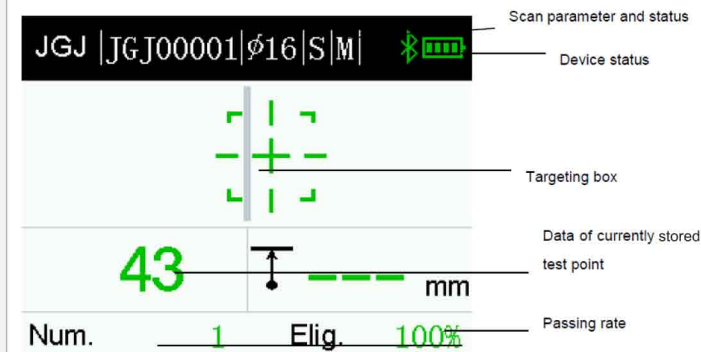
The instrument provides following methods of scanning :



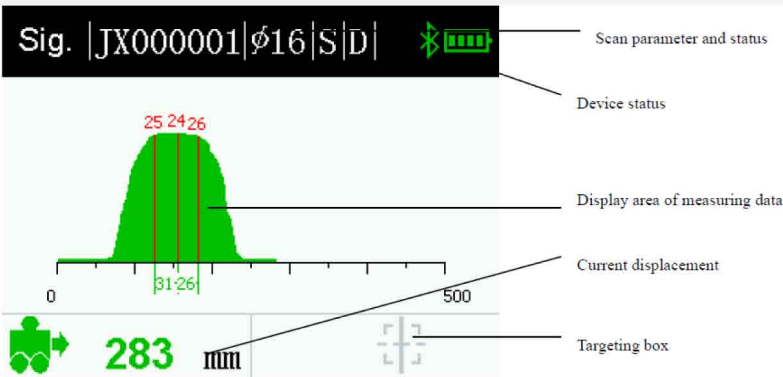
1. Profile Scan : displays position, cover thickness, spacing of adjacent rebar and measured dia and other information by section distribution diagram.



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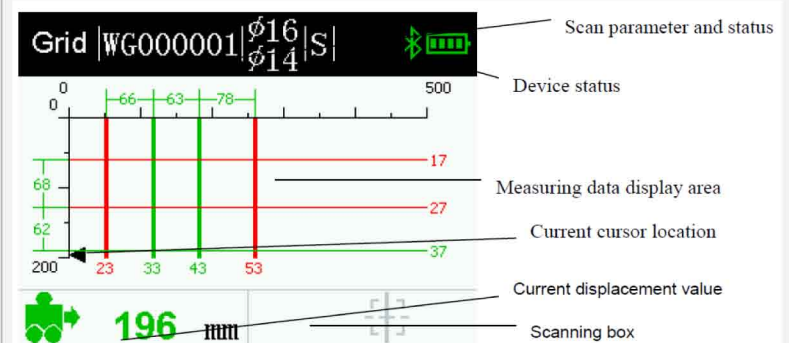


2. JGJ Scan : is a Unique scan mode established for JGJ 152-2008 technical specification which also supports **retest function**.



3. Signal scan : is specially utilised for **Dense rebar Detection**, for use where rebar spacing may be too small. The instrument incorporates a patented special sensor combined with a comprehensive analytical algorithm for dense rebar detection.

4. Grid Scan : displays location, cover thickness and distance between adjacent rebar tested on a grid graph, allowing grid scan conducted in X (Horizontal) and Y (Vertical) directions.



5. Image Scan : Comprehensive analysis mode utilising multiple scans in X and Y directions in a specific area, based on signal scan and grid scan modes – Utilised on a structure with irregular distribution.

Auto Recalibration : Instrument allows recalibration in field.

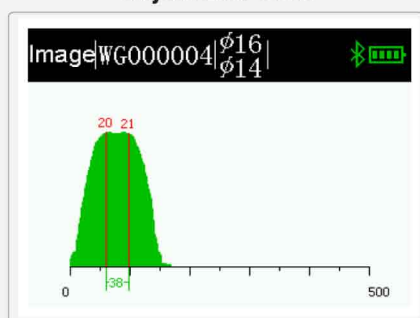
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Data can be viewed in the field using:

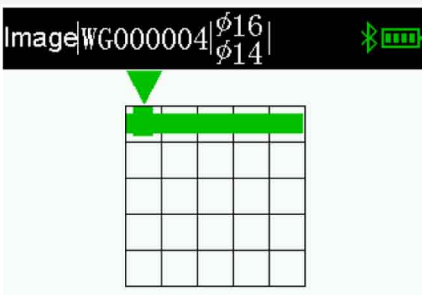
Data View	
Obj.	Data
WG000005	2015/04/27 16:23:55
WG000004	Type JGJ Scan
WG000003	Dia. 16mm
WG000002	Cover 37mm
WG000001	Points 16
WG000000	Elig. 81%

Object List View

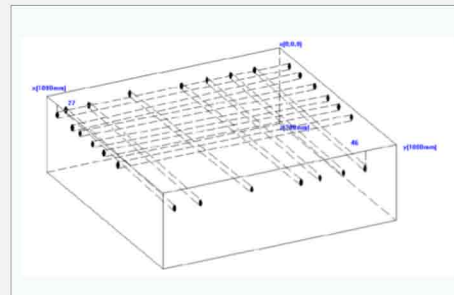


Graph View

Software Provided for Rebar Measurement Data Processing:



- Is an Easy to Use Powerful processing software provided for generation of reports. Operates on windows based computers.
- The software provides the capability to manage data acquired including object information and measurement point data such as cover depth, diameter and position of rebar.
- Print Preview and Print out capability for measurement data from software menu.



Detected data of objects are shown in graphics and three-dimensional diagram can be generated.

Specification:

Rebar diameter range (in mm)	φ6 ~ φ50	
Protective layer thickness range range (mm) cover	First Range	2~100
	Second Range	2~200
Estimated error for protective layer	±1 (mm)	2~60
	±2 (mm)	61~80
	±3 (mm)	81~90
	±4 (mm)	91~133
	±5 (mm)	134~169
	±6 (mm)	170~200
Test accuracy (mm)	0.1	
Measure rebar spacing	✓	
Rebar diameter measurement	✓	
JGJ scan	✓	
Profile scan	✓	
Grid scan	✓	
Image scan	✓	
Three dimensional imaging	✓	
Scan range	Borderless	
Data storage	Upto 3584 objects	
Data transfer	USB & Bluetooth transmission	
Screen	320 X 240, Color LCD Screen	
Battery Operating Time	≥ 12 Hours	
Size (mm)	240 x 93 x 110	
Weight (kg)	0.67	
Probe	Integrated	

Item Code: ST-R660A