



STANGERS

Innovative Technology for Detailed Structural Surveys of Buildings

StructureScan can reduce hazards to occupants and workers as well as reduce the risk of damage to the concrete structure during coring and opening-up work.

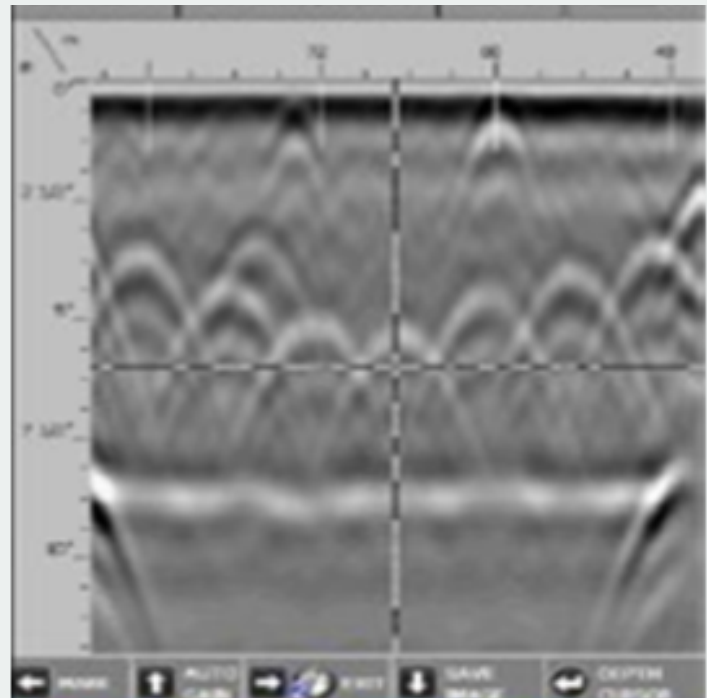
The StructureScan radar is a hand-held system that locates rebar, conduits and post-tension cables in concrete at depths of up to 40 cm. Used when coring and opening up concrete, it will give extra confidence in the conditions immediately under the area to be cored or exposed.

For Concrete inspections

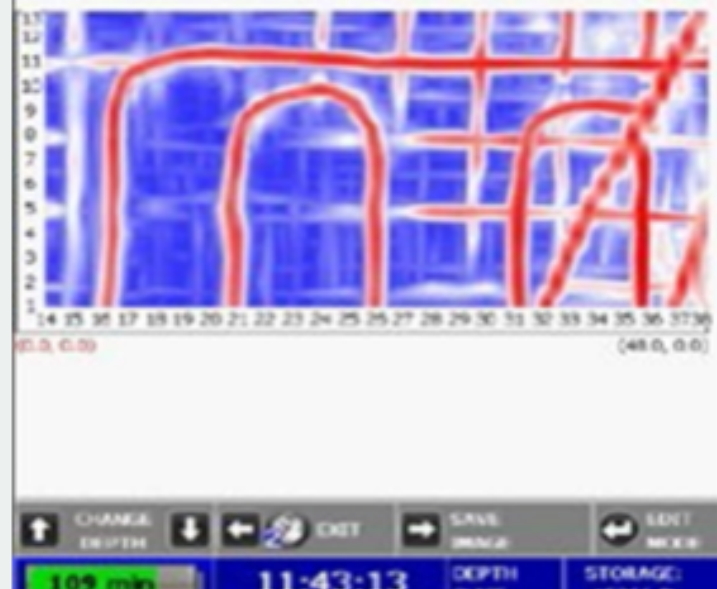
StructureScan can locate metallic and non-metallic targets in walls, floors and ceilings. A 3D image can be generated, for an x-ray-like image. This is ideal for complex areas where conduits are suspected or reinforcement is dense. When used by an experienced operator, the technique is rapid. Results can be seen on the display immediately upon completion of scanning the test area.



BELOW: SMALL PIPES VERY CLOSE TO SURFACE



ABOVE: DEPTH OF SLAB ALSO DETERMINED



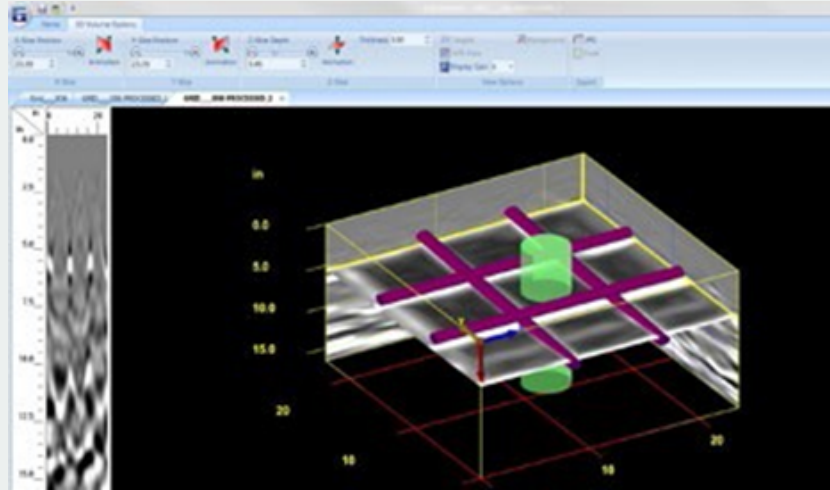
ABOVE: WATER PIPES IN CONCRETE SLAB



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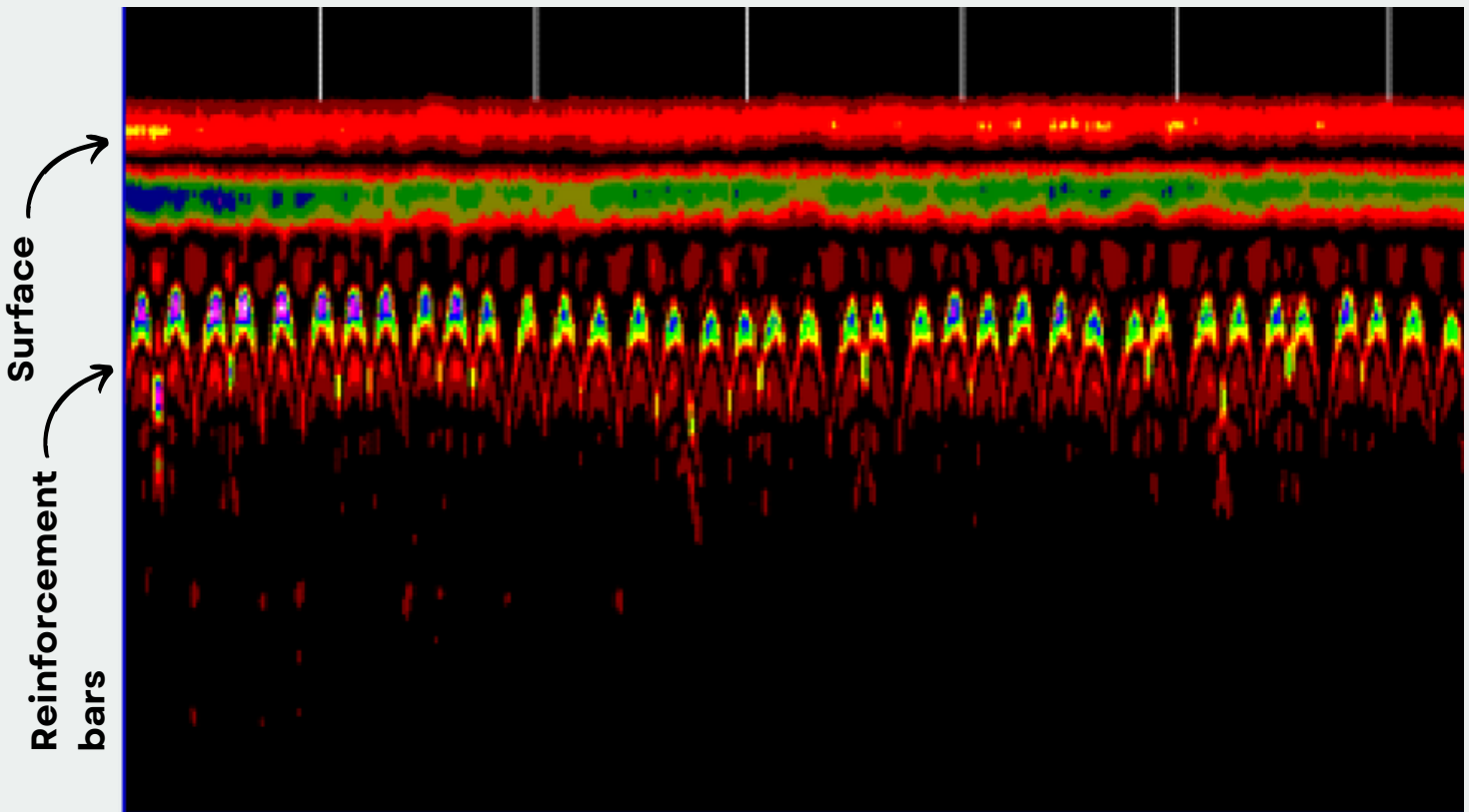
The radar scan below shows a mesh reinforced slab with 43 reinforcement bars of equal spacing and uniform cover, except towards the right-hand side where the concrete cover is comparatively greater.

VOLUMETRIC VIEW OF A REBAR MAT WITH USER-DEFINED VIRTUAL BOREHOLE LOCATION



Structurescan radar is a quick, reliable and non-destructive method to evaluate concrete slabs, walls and other structural and non-structural elements of buildings, as well as estimate element thickness with data collection densities not obtainable by traditional labor-intensive methods, such as coring.

REBAR DETAIL BENEATH THE ROAD SURFACING OF A BRIDGE DECK



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