

## C-THRUE

See Thru Concrete Structures and Reveal True Data that Lead to Optimal Decision-Making



# C-thrue

All-in-one GPR for accurate scanning and real time analysis of concrete structures

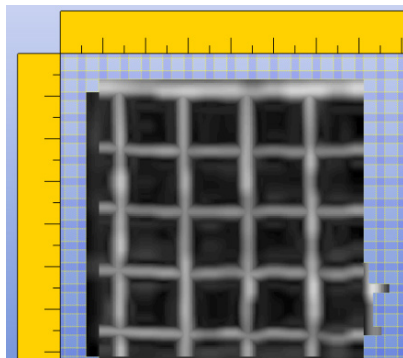
IDS GeoRadar: The leader in multi-frequency and multi-channel  
Ground Penetrating Radar  
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**SEE THROUGH CONCRETE STRUCTURES AND REVEAL TRUE DATA**

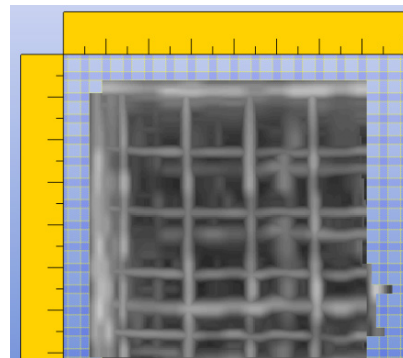
Construction and service companies as well as civil and structural engineers can improve the way they **locate rebars, voids, post-tension cables, cavities, conduits** and any other objects buried in the structure before cutting or drilling into the concrete.

**UNIQUELY IMPROVE DECISION-MAKING**

- **Dual antenna polarisation** for the optimal detection of both first and deeper levels of rebars;
- **Virtual Pad** - Built-in, automatic, and highly accurate position and navigation system;
- **Augmented Reality** for 3D data visualisation.



Standard GPR visualisation



C-thru visualisation: dual antenna polarisation allows the optimal detection of both first and deeper levels of rebars



Automatic position and navigation system (Virtual Pad) increases productivity and reduces survey times.



Augmented Reality for real time data visualisation with more accuracy

**FEATURES AND BENEFITS**

**Clearer and faster surveys:** First and deeper levels of rebars detection thanks to the system's dual antenna polarisation.

**Fully-visible, multi-touch display:** data displayed on the screen are never obscured by the handle or the user's hand.

**Increased data accuracy:** an automatic position and navigation system eliminates all manual, error-prone paper grids.

**Automated data acquisition & analysis:** automatic detection of the first layer of rebars and result exportation.

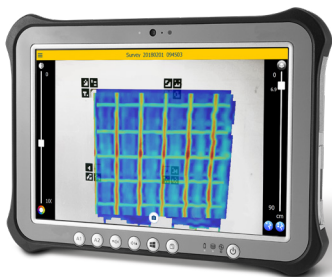
**Safe drill in the surveyed structure:** Improve safety before cutting or drilling into concrete with rebar/void automatic insight capabilities.

**Simplified data interpretation:** optimal decision-making supported by visualisation of acquired data in 3D models

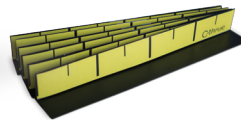
**Advanced data visualisation:** augmented reality for 3D data visualisation and sharing, in real time or intervals after acquisition.

**Flexibility anywhere:** lightweight, compact, drop resistant and transportable system for any user operations and construction sites.

**ALL-IN-ONE, COMPACT AND PORTABLE SYSTEM**



**Wi-fi connection for real time remote control, data processing and Augmented Reality**

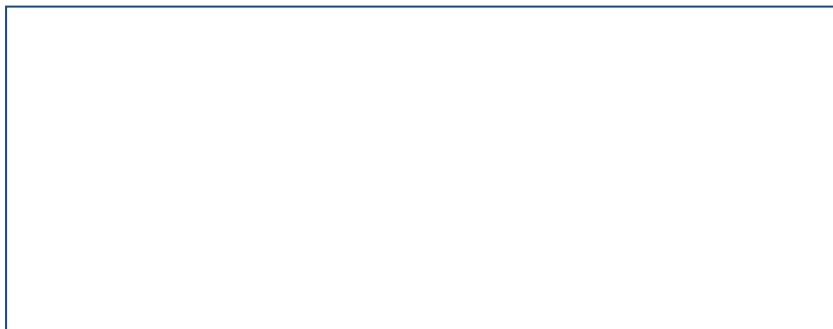


**Positioning Kit and Telescopic Pole**



**Case**

TECHNICAL SPECIFICATIONS		MECHANICAL SPECIFICATIONS	
ANTENNA CENTER FREQUENCY	2.0 GHz	DIMENSIONS (LENGTH X WIDTH X HEIGHT)	285mm x 200mm x 160mm (11,2in x 8,6in x 6,3in)
ANTENNA POLARISATION	Horizontal and Vertical	WEIGHT	2.4 kg (5 lb) with battery
NUMBER OF RADAR CHANNELS	2 (dual-polarised antennas)	DISPLAY	7.0 inches TFT multi-touch
SCAN INTERVAL	Up to 10 scans/cm	ACCESSORIES SPECIFICATIONS	
DEPTH RANGE	Up to 80 cm (up to 31.5 in.)	C-THRUE EXTERNAL CONTROLLER	Real time remote control, Data processing and representation of results in Augmented reality
POSITIONING SYSTEM	"Virtual Pad" (based on 3 High safety - Class 1 laser sensors with reflective bars)	C-THRUE POLE	<ul style="list-style-type: none"> <li>Telescopic aluminium pole</li> <li>1, 8 m (6ft)</li> <li>Remote control buttons</li> </ul>
AC POWER CONDUITS DETECTION	EM sensor integrated (50/60 Hz)		
CONNECTIVITY	USB, Wi-Fi		
DROP RESISTANT	COMPLIANT WITH MIL-STD-810G		



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