

C-THRUE

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



Cthru**e**

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

www.idsgeoradar.com

NON-DESTRUCTIVE TESTING

C-thrue is an **all-in-one Ground Penetrating Radar (GPR) for accurate scanning and real time analysis of concrete structures**. 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.

SEE THROUGH CONCRETE STRUCTURES AND REVEAL TRUE DATA

C-thrue is an easy-to-use and robust solution to see through concrete structures and reveal true data that lead to optimal decision-making. The solution is suited for **all construction sites and operations** including building renovation, overpasses, bridges and tunnels surveys, as well as for detailed analysis of the original engineering project and comparison with the as-built structure.



C-thrue – Augmented Reality for 3D data visualisation

FEATURES AND BENEFITS

Clearer and faster surveys: first and second level rebars detection thanks to the system's double 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.

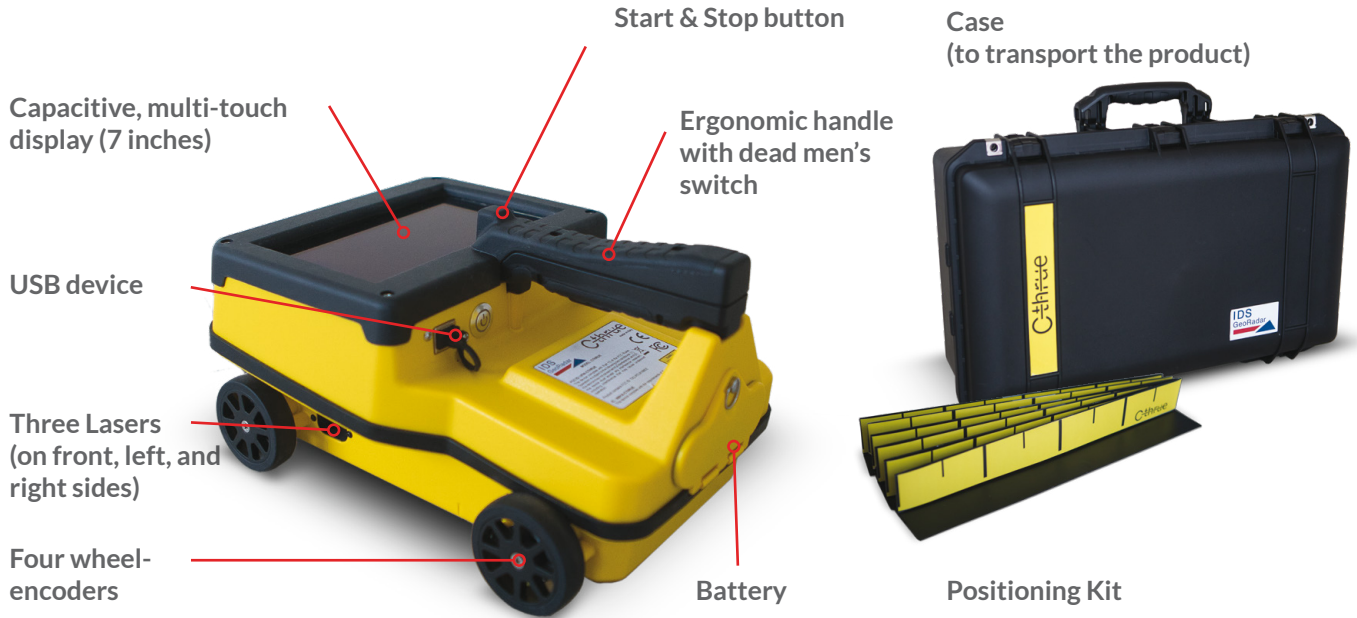
Safe drill in the surveyed structure: Improve safety before cutting or drilling into concrete with rebar/void automatic insight capabilities.

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

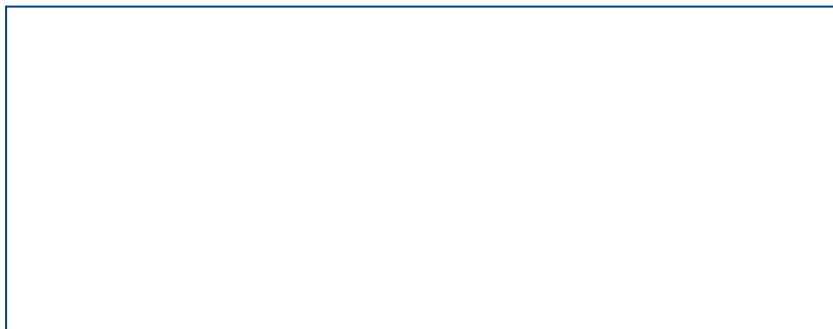
Advanced data visualisation: augmented reality for 3D data visualisation and sharing, in real time or intervals after acquisition.

Flexible solution: lightweight, compact and transportable system for any user operations and construction sites.

ALL-IN-ONE, COMPACT AND PORTABLE SYSTEM



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)		
NUMBER OF ANTENNAS	4	WEIGHT	2.4 kg (5 lb) with battery		
ANTENNA POLARISATION	Horizontal and Vertical	DISPLAY	7.0 inches TFT multi-touch		
NUMBER OF RADAR CHANNELS	2	SOFTWARE SPECIFICATIONS			
SCAN INTERVAL	Up to 10 scans/cm	C-THRUE SOFTWARE	<ul style="list-style-type: none"> • Quick start-up • Real time radar data acquisition, processing and visualization in B-Scan • Real time feature marking, management and editing tool • Rebar/Void automatic discrimination • VirtualPad - Positioning & navigation system • Visualization of C-scan (radar tomography) • Real time diagnose of radar and the other devices • Metric and imperial units • Available in more than 20 languages • First rebar layer automatic detection • Automatic job reports • Real time Power conduit sensing display 		
DEPTH RANGE	Up to 80 cm (up to 31.5 in.)				
DISPLAY MODES	B-Scan and C-scan (radar tomography)				
POSITIONING SYSTEM	"Virtual Pad" (based on 3 High safety - Class 1 laser sensors with reflective bars)				
AC POWER CONDUITS DETECTION	EM sensor integrated (50/60 Hz)				
BATTERY	Li-ion battery, 15V, 3.2Ah, 3-hour runtime				
DATA STORAGE	32 GB				
CONNECTIVITY	USB, Wi-Fi				
ACCESSORIES SPECIFICATIONS				ENVIRONMENTAL SPECIFICATIONS	
C-THRUE EXTERNAL CONTROLLER	<ul style="list-style-type: none"> • Remote control of C-thrue • Representation of results in Augmented Reality (when used with Virtual Pad) • Display: 10.1 inches • Drop resistant: 1.8m (5.9ft) • Connectivity: 4G LTE, Wi-Fi • Environmental: MIL-STD 810G and IP65 			OPERATING TEMPERATURE	-20°C to +50°C (-4°F to +122°F)
C-THRUE HANDLE	<ul style="list-style-type: none"> • Aluminum handle • 1.5 m (5 ft) • Remote control buttons 	STORAGE TEMPERATURE	-40°C to +60°C (-40°F to +140°F)		
		ENVIRONMENTAL	IP65		



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