Product brochure

C-thrue and C-thrue XS

Two ways to survey concrete with GPR





The C-thrue family combines a handheld scanner with its own display and a compact XS head for use with a compatible controller. Both solutions use a frequency of 2 GHz and HH and VV polarisations. The choice depends on surface access, data display and processing requirements. They are separate offers with different supplied equipment.

Configuration and price on request

Original adaptation and translation: geoscanners.pl. Based on IDS GeoRadar materials.

Photos and technical data: IDS GeoRadar / Hexagon.

IDS GeoRadar C-thrue

Before drilling, cutting or assessing a structure, it helps to understand the elements hidden in concrete. C-thrue combines antennas with two polarisations and an integrated display, allowing the operator to collect data and view results without a separate computer. The system helps identify reinforcement, cables, ducts and anomalies that may indicate voids. Additional passes can support interpretation, while compatible software can extend the documentation.



Two polarisations in one pass

C-thrue records HH and VV channels during a single pass. Comparing both images helps distinguish responses from differently positioned elements and understand reinforcement patterns. Operator assessment remains necessary: dense reinforcement, moisture and concrete properties can limit the visibility of deeper objects.

Sensor frequency	2.0 GHz
Antennas / radar channels	4 / 2
Polarisation	Horizontal and vertical: HH and VV
Recording density	Up to 10 scans/cm
Manufacturer depth range	Up to 100 cm; actual range depends on the concrete and target

The offer covers the C-thrue Lite kit configuration with an integrated display. Transport and survey equipment, additional heads, controller and licences are specified in the quotation.

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IDS GeoRadar C-thrue XS

C-thrue XS helps collect data where a larger scanner has limited room to move: around corners, columns and obstructions. The 0.45 kg head records two polarisation channels, with results viewed on a connected computer or C-thrue display. It complements concrete surveys in confined spaces. The shop offer covers the head only, without its own display or controller.



A small head with two data channels

C-thrue XS uses a frequency of 2 GHz and HH and VV polarisations. It collects both channels in one pass, supporting assessment of shallow and deeper responses in concrete. An integrated wheel encoder links data to head movement, while the compact housing helps survey near obstructions.

Sensor frequency	2.0 GHz
Antennas / radar channels	4 / 2
Polarisation	Horizontal and vertical: HH and VV
Recording density	Up to 14 scans/cm
Manufacturer depth range	Up to 100 cm; actual range depends on the concrete and target

The offer includes the C-thrue XS head only. Select a compatible controller or C-thrue and the required connections for operation. Additional equipment and software are specified in the quotation.

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