

THE CX10 & CX11 NON-DESTRUCTIVE CONCRETE IMAGING SYSTEM



CONCRETE IMAGING SYSTEM FOR THE LOCATION OF REBAR, POST TENSION CABLES, CONDUITS AND 50/60HZ POWER CABLES

The CX series is the world's first system to combine Radar and Electro-Magnetic (EM) technology to locate and identify energized power cables. The system is available with two different antennas: 1.2 & 1.6GHz and both are available with the EM option.

- Detects metal and non-metallic objects
- Locates and identifies 50/60Hz power cables
- Fast and Easy to use
- Detect voids
- Approx 50% of the cost of competing products
- Mala's unique single knob control

Let's make it visible

TECHNICAL SPECIFICATIONS

The system includes a field rugged all metal controller and high impact glass monitor. Operation of the CX series system is extremely productive with Mala's unique single knob controller and simple user interface, in addition is an easy-to-follow project manager for 3D imaging. Data may be downloaded to a PC for more advanced post-processing with Mala's Easy 3D processing software or to simply archive data via a fast USB port.

The CX10 & CX11 systems can now locate power cables, rebar, post-tension cables plus metallic and non-metallic conduits in concrete slabs either suspended or on grade.

Features include the ability to rapidly scan areas for 2D locating and to mark targets or collect data on a grid mat supplied with the system, for "in the box" 3D imaging in the field for instantaneou results.



Figure 1. The system includes a field rugged all metal controller and high impact glass monitor.

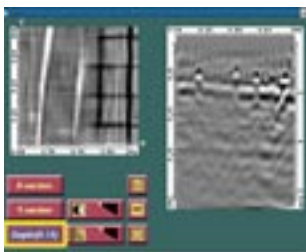


Figure 2. Section of a reinforced concrete slab viewed with the inbuilt 2.5D utility.

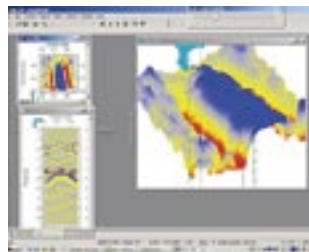


Figure 3. Example of 1.6 GHz data presented in Easy 3D™

CX10/CX11 Main Unit

Pulse repetition frequency	100 kHz
Data bits	16
Time stability	Better or equal than 60ps
Sampling frequency	6-700 GHz
Acquisition mode	Distance/time/manual, Grid measurements are controlled by remote controls on antenna/handle, with audio response
Time Window	0-70nS
Power supply	External 12V DC powered by a 12V/12Ah Li-Ion rechargeable battery (operating time 6 hours) or external AC/DC converter.
Control device	Combined turn-push button
Screen	10,4" Color LCD High Brightness (CX10) or Trans-reflective (CX11)
Antenna compatibility	Malå GeoScience High frequency series.
Dimensions	410 x 210 x 55 mm + protruding details 40 mm
Weight	3,5 kg
Operating temperature	-20°C to +50°C (-4°F to +122°F)
Environmental	IP 67
Data download	USB1

Common for all antennas

Bandwidth:	>100%
Time window:	> 30ns.
Rep. rate:	100kHz.
Cable length:	4m.
Remote controls:	2 (new profile & start/stop).
Options:	Wheel cart, 1.5m extension handle, 10m extension cable, Split box for tomography applications
Operating temperature:	-20 – +50 C
Environmental:	Shock and water proof.

1.6GHz antenna

Nominal center frequency:	1.6GHz
Dimensions:	160x90x110mm
Weight:	0.6Kg (with 50/Hz option 1.2Kg)
Options:	50/60 Hz sensor (Sensitivity 300uV, 14bits)

1.2GHz antenna (pending FCC approval)

Nominal center frequency:	1.2GHz
Dimensions:	190x115x110mm
Weight:	1.0Kg (with 50/Hz option 1.2Kg)
Options:	50/60 Hz sensor (Sensitivity 300uV, 14bits)

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