

## 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 three different antennas: 1.2, 1.6 and 2.3GHz and the first two antennas 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
- Unique single knob control

Let's make it visible

## TECHNICAL SPECIFICATIONS

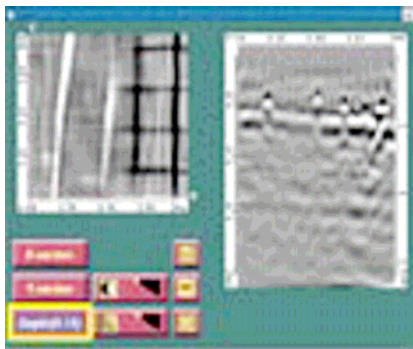
The system includes a field rugged all metal controller and high impact glass monitor. Operation of the CX series system is extremely productive with its unique single knob controller and simple user interface, in addition is an easy-to-follow project manager for 3D imaging. Data may be downloaded to a PC for more advanced post-processing with the 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.

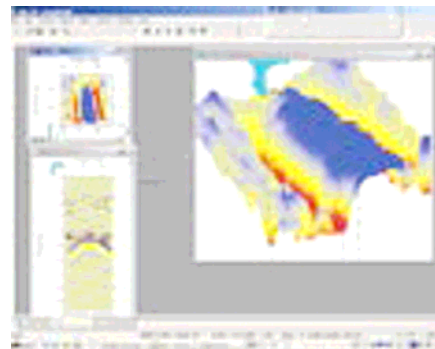
Features include the ability to rapidly scan areas for 2D locating and to mark targets or collect data on a grid mat supplied with the system, for "in the box" 3D imaging in the field for instantaneous results.



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



*Figure 2. Section of a rein-forced 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***

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

***Common for all antennas***

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

***1.6GHZ ANTENNA***

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

***1.2GHZ ANTENNA*** (pending FCC approval)

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