

CX12 GPR controller Data Sheet

The Mala CX12 is a comprehensive high frequency Ground Penetrating Radar (GPR) controller specifically designed to help assess the integrity of standing structures.



CX12 being used to identify any cavities behind a breeze block wall.

The CX12 can be deployed with any of the Mala high frequency shielded bowtie antenna (1.2, 1.6 & 2.4GHz) and can be equipped with a complimentary 50/60Hz EM sensor for detecting live mains cables. As part the Geomatrix Earth Science rental pool we can offer a CX12 system with 2.3GHz antenna which suits both structural engineering and historic building management projects.

Features

- Simple and quick deployment. The rugged compact design leads itself to be deployed in small difficult spaces or on scaffolding.
- 2D, 3D/Grid and Object Mapper projects.
- Intuitive semi automated data acquisition and QC/QA software. Including hyperbola diffraction tool for velocity analysis and time/depth slicing.
- Automatic time zero adjustment.
- One turn/push button operation.

- Download and export data to third party software for further data analysis.
- Remote operation using buttons on the antenna grip.
- USB data download.

Product Dimensions

| Physical | Dimensions (L x W x H) | Weight |
|-------------------|------------------------|--------|
| (instrument only) | 56cm x 46cm x 26cm | 17kg |

Technical Specifications

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|------------------------------------|--|
| Recording Channels: | 1. |
| Antenna Range: | 1.2, 1.6 or 2.4GHz. only the 2.4GHz antenna is available for rental. |
| Pulse Repetition frequency: | 100kHz. |
| Data bits: | 16. |
| Sampling frequency: | 6-700 GHz. |
| Acquisition mode: | Distance/time/manual. |
| Operating time: | 3 hours per battery or indefinite when running on main supply. |
| Operating temperature: | -20 to 50°C |
| EM Option: | 50/60Hz sensor (sensitivity 300uV, 14 bits). Not available for rental. |