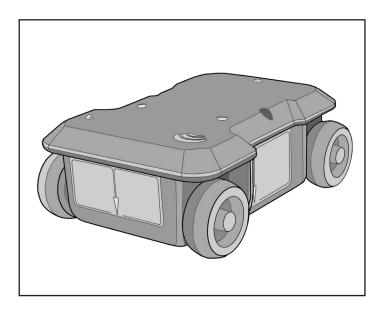


https://oerad.info info@oerad.info (+39) 392.92.07.751 Italy



Technical Specifications Sheet

Latest update: August 2018



What Concretto is

The Concretto is an Ultra-Wideband (UWB) shielded pulsed Wall Probing Radar (WPR) for non-destructive imaging of subsurface structures. It comprises of a transmitter and receiver boards and antennae, a controller board and a distance measurement device.

What Concretto is used for

The Concretto has a wide variety of usages including but not limited to underground utility detection, non-destructive concrete structure analysis, rebar detection, road inspection, cracks and faults localization in concrete and asphalt structures, wire and pipe mapping in buildings, etc. It is designed to withstand the harsh conditions of construction sites.

Technical Specifications

200 MHz - 4000 MHz	Batteries 10 x 900 mAh NiMH 1.2 V
2000 MHz	Autonomy w/ One Charge 8 h
7.5ns / 14ns	Charge Time 1.5 h
120 dB min	ADC Range 8 bits
0.001 m	Data Acquisition Rate 18.2 traces/second
0.001 m	Samples per Trace 585
1 MHz	GPR Interface UART over USB
600 ps	Operating Temp Range -5° C to 40° C
30 V	Water Resistance IP 52
200 ps	Size 14.5/20/8 cm
3 W	Weight 1 kg
110 mAh	
	2000 MHz 7.5ns / 14ns 120 dB min 0.001 m 0.001 m 1 MHz 600 ps 30 V 200 ps 3 W