



Ground Explorer (GX)

GROUND PENETRATING RADAR

GPR with exceptional range and resolution

Technical Specification

MALÅ GroundExplorer (GX) is an integrated GPR solution with four MALÅ GX antenna options: GX80, GX160, GX450 and GX750. MALÅ GX provides an easy-to-use GPR solution on a rugged platform with significantly faster data acquisition rates, outstanding signal-to-noise ratio and depth penetration.

Tablet

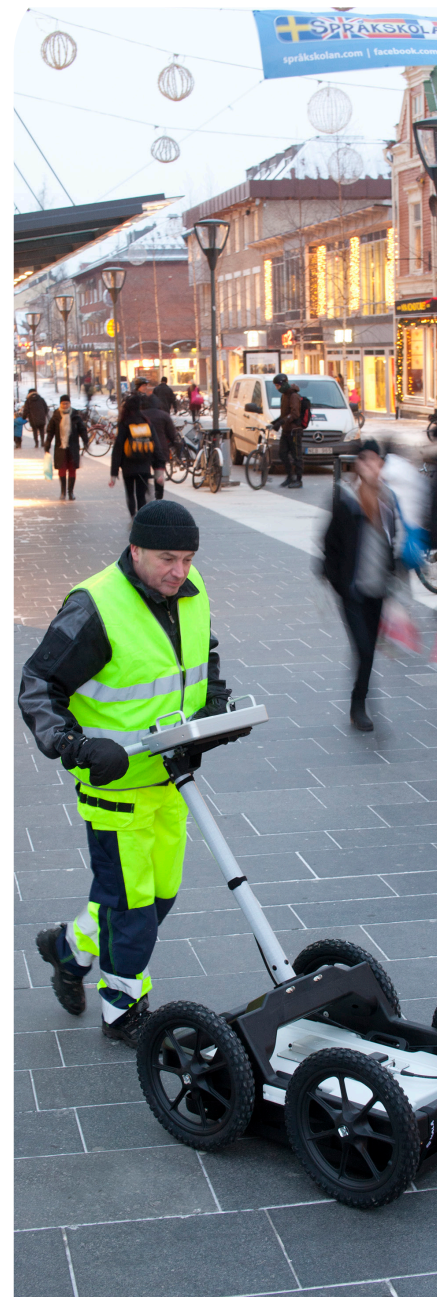
Acquisition platform	MALÅ Controller App
Processing platform	MALÅ Vision
Recommended tablet	Samsung Galaxy Tab Active Pro 5G

MALÅ GX Controller

Processor	1.6 GHz Intel Atom
Display	1024 x 768 mm
OS	Linux
Memory	32 MB compact Flash memory
Data output	32 bit
Comms	Ethernet, WiFi (optional), USB 3.0, RS232 (serial)
GPS	Integrated support for built-in GPS, or external GPS via USB/serial port (NMEA 0183 protocol)
Power supply	Internal 12 V/20.8 Ah Li-Ion battery, or any external 10-15 V DC source
Charger	Internal. Unit can also be charged from any external 12 - 15 V DC source
Power consumption	1.3 – 2.0 A
Operating time	8 – 10 h
Dimensions	326 x 216 x 92 mm including handles 326 x 216 x 52 mm excluding handles
Weight	3.23 kg
Operating temp	- 20° to + 50° C or 0° to 120° F
Environmental	IP 65

GX WIFI OPTION

Wireless standard:	IEEE802.11 g
Power consumption:	0,3 A



MALÅ GX Antennas

MALÅ GX750 HDR

Technology	MALÅ HDR Real-Time sampling
Antenna center freq	750 MHz
SNR	97 dB
Time window	75 ns
Bandwidth	120 %, fractional, -10 dB
Positioning	RTK GNSS (option), GPS Time Synchronization (PPS), DGNSS, mobile device positioning, encoder, Total station support
Operating time	6 h
Power supply	Interchangeable 12 V Li-Ion batt. or ext. 12 V DC source
Power consumption	1 A
Acq. Mode	Encoder wheel, time, manual or MALÅ Motion Trig*
Dimensions	375 x 235 x 170 mm
Weight	3.6 kg (~7.94 lb)
Operating temp	- 20° to + 50° C or 0° to 120° F
Environmental	IP 65

*Trigger the signal using the internal GPS.

MALÅ GX450 HDR

Technology	MALÅ HDR Real-Time sampling
Antenna center freq	450 MHz
SNR	101 dB
Time window	300 ns
Bandwidth	120 %, fractional, -10 dB
Positioning	RTK GNSS (option), GPS Time Synchronization (PPS), DGNSS, mobile device positioning, encoder, Total station support
Operating time	6 h
Power supply	Interchangeable 12 V Li-Ion batt. or ext. 12 V DC source
Power consumption	1 A
Acq. Mode	Encoder wheel, time, manual or MALÅ Motion Trig*
Dimensions	430 x 360 x 180 mm
Weight	5.7 kg (~12.57 lb)
Operating temp	- 20° to + 50° C or 0° to 120° F
Environmental	IP 65

*Trigger the signal using the internal GPS.

MALÅ GX160 HDR

Technology	MALÅ HDR Real-Time sampling
Antenna center freq	160 MHz
SNR	107 dB
Time window	1700 ns
Bandwidth	120 %, fractional, -10 dB
Positioning	RTK GNSS (option), GPS Time Synchronization (PPS), DGNSS, mobile device positioning, encoder, Total station support
Operating time	6 h
Power supply	Interchangeable 12 V Li-Ion batt. or ext. 12 V DC source
Power consumption	1 A
Acq. Mode	Encoder wheel, time, manual or MALÅ Motion Trig*
Dimensions	720 x 480 x 190 mm
Weight	10.7 kg (~23.6 lb)
Operating temp	- 20° to + 50° C or 0° to 120° F
Environmental	IP 65

*Trigger the signal using the internal GPS.

MALÅ GX80 HDR

Technology	MALÅ HDR Real-Time sampling
Antenna center freq	80 MHz
SNR	114 dB
Time window	3100 ns
Bandwidth	120 %, fractional, -10 dB
Positioning	RTK GNSS (option), GPS Time Synchronization (PPS), DGNSS, mobile device positioning, encoder, Total station support
Operating time	6 h
Power supply	Interchangeable 12 V Li-Ion batt. or ext. 12 V DC source
Power consumption	1 A
Acq. Mode	Encoder wheel, time, manual or MALÅ Motion Trig*
Dimensions	1010 x 780 x 220 mm
Weight	24.2 kg (~53.35 lb)
Operating temp	- 20° to + 50° C or 0° to 120° F
Environmental	IP 65

*Trigger the signal using the internal GPS.

GUIDELINEGEO

GUIDELINE GEO has been in the geophysics business since 1923 and is the global leader in near-surface geotechnology. Our advanced technology ensures practical solutions to everyday, societal, and global problems. We deliver total solutions in the technological fields of ground penetrating radar, seismic, geoelectrical and electromagnetic measurement. The Guideline Geo AB share (GGEO) is listed on Nasdaq First North Growth Market. We are a Swedish company with international offices and regional partners serving clients in over 100 countries.

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