# Ground Explorer (GX)

**GROUND PENETRATING RADAR**

**GPR with exceptional range and resolution**

# Technical Specification

MALÅ GroundExplorer (GX) is a complete GPR solution with four antenna frequency options: GX80, GX160, GX450 and GX750. It is designed for a wide range of ground investigation applications and is easy to use in different field conditions. MALÅ GX combines a rugged and reliable design with significantly faster data acquisition rates, outstanding signal quality and great depth penetration. This makes it a powerful and efficient solution for collecting high-quality GPR data, even in challenging environments.

## Tablet

| | |
|---|---|
| **Acquisition platform** | MALÅ Controller App |
| **Processing platform** | MALÅ Vision |
| **Recommended tablet** | Samsung Galaxy Tab Active Pro/Getac ZX-10 |
| **Wireless standard:** | IEEE802.11 g |

## 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** | 625 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.

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