

MALÅ MIRA 16

GROUND PENETRATING RADAR

MIRA - MALÅ Imaging Radar Array for true 3D acquisition

MALÅ MIRA 16 is a 16-channel GPR array created for efficient and high-resolution large area mapping. The 16-channel MIRA solution is the ideal compromise between swath-width and maneuverability, and has proven to be the primary choice among GPR array users world-wide. Due to its size and weight, the MIRA 16 solution is primarily a vehicle based solution and not recommended for manual surveys.

MALÅ MIRA systems enable fast, accurate 3D data acquisition. The systems are built for cost-efficient, high resolution, large-area mapping. All MALÅ MIRA solutions are customizable, based on the same core technology.

Typical application areas include: utility detection, archeological investigations, concrete inspections, forensic, cavity and sinkhole detection.

Features

- ▶ Real-time support of high-end positioning systems
- Dedicated software suited for MALÅ MIRA 3D array data
- ➢ Ground coupled antennas for maximum near surface resolution
- ▷ Vehicle-mounted

Technical Specifications

MALÅ MIRA 16 channel 400MHz

Control Unit
Dimension Box
Weight
Power
Pulse Repetition Frequency
Suitable Target depth
Number of data channels
Number of samples

Standard Antenna Frequency Communication

Positioning input

MALÅ ProEx with array option 155x66x44 cm (WxLxH) 90 kg From survey vehicle 200 kHz Up to 4 meters 16 channels Up to 1024 400 MHz (options available) Point to point Ethernet, 100 Mbit/s Supports all major RTK, GPS and

MALÅ MIRA 16 channel 200MHz

MALÅ ProEx with array option 250x130x56 cm (WxLxH) 300 kg From survey vehicle

200kHz Up to 8 meters 16 channels Up to 1024

200 MHz (options available)
Point to point Ethernet, 100 Mbit/s
Supports all major RTK, GPS and
Total Stations

Other available options

Control Unit

Communication

Positioning input

Dimension Box
Weight
Power
Pulse Repetition Frequency
Suitable Target depth
Number of data channels
Number of samples
Standard Antenna Frequency

MALÅ MIRA 16 channel 1.3 GHz

Total Stations

Total Stations

MALÅ ProEx with array option 104 x 70 x 47 cm (LxWxH) 70 kg LI-FE PO 4 Battery 12v 40Ah 200 kHz Up to 1 meter 16 channels Up to 1024 1.3 GHz (Options available) Point to point Ethernet, 100 Mbit/s Supports all major RTK, GPS and



Note: The image shows MIRA 8

1.3 GHz antennas

114x90x98 [mm], (LxWxH) **Dimension**

Weight 0.7 kg/antenna, max

Power 0,9A@12V/antenna, max, 1.2A/pair

Centre frequency 1.3GHz, within 10%, measured on reflection off a target in dry sand

Bandwidth 100%

Power connectors Tsaye, mick jack line/mic plug chassis, 4 pol

ADC

Compliance EN 302 066-1

Environmental IP65

400 MHz antennas

Dimension 230x165x160 [mm], (LxWxH)

Weight 2,1 kg/antenna, max

0,9A@12V/antenna, max, 1.2A/pair **Power**

Centre frequency 400 MHz, within 10%, measured reflection from off a target in dry sand

Bandwidth

Power connectors Tsaye, mick jack line/mic plug chassis, 4 pol

ADC 16-bit

Compliance EN 302 066-1

Environmental IP65

200 MHz antennas

Dimension 455x255x25 [mm], (LxWxH)

Weight 4.2 kg/antenna, max

Power 0,9A@12V/antenna, max, 1.2A/pair

Centre frequency 200 MHz, within 10%, measured on reflection off a target in dry sand

Bandwidth 100%

Power connectors Tsaye, mick jack line/mic plug chassis, 4 pol

ADC 16-bit

Compliance EN 302 066-1

Environmental IP65



Guideline Geo is a world-leader in geophysics and geo-technology offering sensors, software, services and support necessary to map and visualize the subsurface. Guideline Geo operates in four international market areas: Infrastructure – examination at start-up and maintenance of infrastructure. Environment – survey of environmental risks and geological hazards, Water - mapping and survey of water supplies and Minerals - efficient exploration. Our offices and regional partners serve clients in 121 countries. The Guideline Geo AB share (GGEO) is listed on NGM Equity.



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