GUIDELINEGEO

MALÅ MIRA 8

GROUND PENETRATING RADAR

MIRA - MALÅ Imaging Radar Array for true 3D acquisition

MALÅ MIRA 8 is an 8-channel GPR array created for efficient and high-resolution mapping of areas below 10 000m². With its smaller foot-print, lower weight and power consumption, it is the ideal choice for manual data acquisition (without a vehicle) in more confined spaces.

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.

MALÅ MIRA solutions are used for various high-resolution, large area, investigations. 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
- ▷ Can be handled manually or vehicle-mounted

Technical Specifications

	MALÅ MIRA 8 channel 400MHz	MALÅ MIRA 8 channel 200MHz
Control Unit	MALÅ ProEx with array option	MALÅ ProEx with array option
Dimension Box	104 x 70 x 47 cm (W x L x H)	152x130x56
Weight	72 kg	220kg
Power	Li-FE PO 4 Battery 12 V 40 Ah	From survey vehicle
Pulse Repetition Frequency	200 kHz	200kHz
Suitable Target depth	Up to 4 meters	Up to 8 meters
Number of data channels	8 channels	8 channels
Number of samples	Up to 1024	Up to 1024
Standard Antenna Frequency	400 MHz (options available)	200 MHz
Communication	Point to point Ethernet, 100 Mbit/s	Point to point Ethernet, 100Mbit/s
Positioning input	Supports all major RTK, GPS and Total Stations	Supports all major RTK, GPS and Total Stations
Environmental	IP65	IP65

1.3 GHz antennas

Dimension	114x90x98 [mm], (LxWxH)
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	16-bit
Compliance	EN 302 066-1
Environmental	IP65

400 MHz antennas

Dimension	230x165x160 [mm], (LxWxH)
Weight	2,1 kg/antenna, max
Power	0,9A@12V/antenna, max, 1.2A/pair
Centre frequency	400 MHz, within 10%, measured reflection from 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

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

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***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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