

Technical Specification

MALÅ MIRA Flex



MALÅ MIRA Flex is a modular, custom-built 3D ground-penetrating radar (GPR) array solution designed to deliver high-resolution subsurface data for applications with specific technical and operational requirements. The system is offered to qualified customers and partners for integration into tailored solutions and specialized platforms. Guideline Geo supplies the GPR sensors and electronics, while end users are responsible for integrating these components into an application-specific enclosure (IP66 or higher) and carrier solutions optimized for the intended operating environment.

Built on the proven MIRA platform, which has delivered high-quality 3D GPR data for more than two decades, MIRA Flex extends this established technology by enabling customer-specific configurations. This flexibility supports specialist use cases and is particularly well suited for customers exploring longer term partnerships, where MALÅ solutions can be integrated as a core component of a customized system. This approach enables deployment across a broader range of applications while maintaining the high data quality and resolution that define the MIRA product family.

General

Antenna frequency/type	500 MHz, HDR	Dimensions	50.7 (20") x See table x 16.3 cm (6½")
Data channel spacing	6.5 cm (2½")	Weight	See table
Standard number of data channels	2 - 62 channels	Acquisition mode	Time, Encoder, MALÅ Motion trig
Standard scan width	0.25 - 4 m (1 - 13 ft)	Positioning	Supports all major GNSS/TS
Max. acquisition speed	Highway speed		
Nominal input voltage	12/24 VDC	Data collection software	MIRA Controller
Suitable target depth	0 - 5 m (0 - 16 ft)	Post processing software	MALÅ Vision Desktop

	14 Ch	18 Ch	22 Ch	26 Ch	30 Ch	34 Ch	38 Ch	42 Ch	46 Ch	50 Ch	54 Ch	58 Ch	62 Ch
<i>System width* (cm)</i>	104	130	156	182	208	234	260	286	312	338	364	390	416
<i>System width* (ft)</i>	3'5"	4'3"	5'1"	6'	6'10"	7'8"	8'6"	9'5"	10'3"	11'1"	11'11"	12'6"	13'8"
<i>Scan width (cm)</i>	84	110	136	162	188	214	240	266	292	318	344	370	396
<i>Scan width (ft)</i>	2'9"	3'7"	4'6"	5'4"	6'2"	7'	7'10"	8'9"	9'7"	10'5"	11'3"	12'2"	12'12"
<i>Weight (kg)</i>	14	17	20	24	27	30	33	36	40	43	46	49	52
<i>Weight (lbs)</i>	31	37	44	53	60	66	73	79	88	95	101	108	115
<i>Power consumption (W)</i>	61	75	88	102	115	129	142	156	169	183	196	210	223

*Excluding absorbers and enclosure

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