

# MRAZ3

## GEORADAR MEASUREMENTS

### DATA SHEET



MRAZ3 GPR is an advanced, fully autonomous unmanned ground vehicle (UGV) equipped with state-of-the-art ground penetrating radar (GPR) technology. It has been specifically developed for conducting real-time locating, 2D GPR profiling, and 3D GPR projects. This cutting-edge device enables the analysis and mapping of underground structures and objects with remarkable precision.



- extension - drawer
- robotic platform MRAZ3
- front camera
- georadar

AI control

Operates 24/7

Scanning 5000m<sup>2</sup>/h



## CONTROL

The UGV MRAZ3 is controlled manually with 16 channel manual controller or autonomous control in marked area-based or point to point-based projects. All autonomous operations can be watched online and controlled by an operator from remote controller or a monitoring center. The autonomous UGV recognizes object based on the neural network library of predefined object. The objects can be customized according the requests of the client.

Mraz3 performs difficult searching tasks even in areas where people are not allowed. The UGV is completely sealed and over pressured.

# MRAZ3

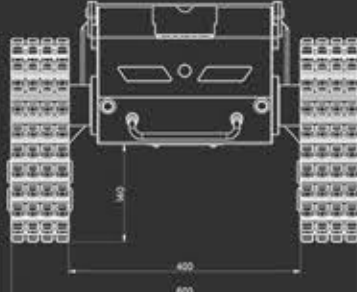
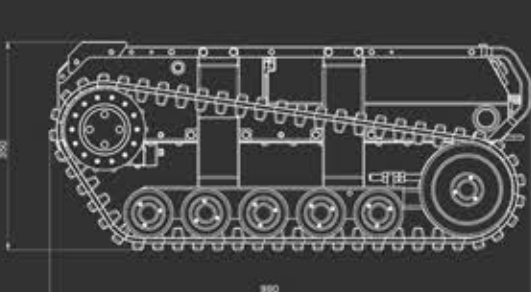
## GEORADAR MEASUREMENTS

### DATA SHEET

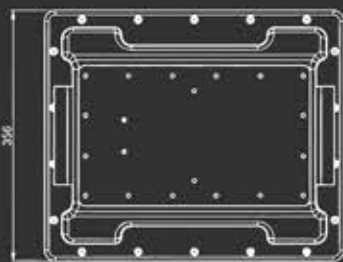
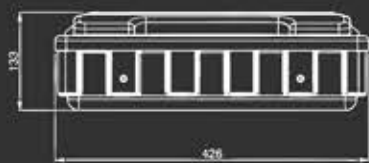


MRAZ3 GPR is capable of locating various underground structures and objects, regardless of the materials they are made of. The GPR data obtained from measurements can be further processed, analyzed, and integrated with geodetic maps for comprehensive underground mapping.

## DIMENSIONS OF MRAZ3 GPR



### DIMENSIONS OF GEORADAR



## USE CASES

- locating pipes and cables
- utility locating services
- investigating road cavities
- ensuring dam safety and tunnel inspection
- analyzing ice and snow formations
- mapping bedrock formations
- assessing concrete construction
- assisting in archeological prospection
- supporting military and civil investigations
- mapping waste deposits

# MRAZ3

## GEORADAR MEASUREMENTS

### DATA SHEET



### PARAMETERS

Material	<b>stainless steel</b>
Material of crawler	<b>rubber</b>
Maximum speed	<b>10 km/h</b>
Battery capacity	<b>77Ah at 48V</b>
Battery life	<b>8 - 12 hours (depends on climatic and terrain conditions)</b>
Scanning device	<b>GX 750HDR</b>
Penetration depth	<b>4 m</b>
Scanning speed	<b>up to 5000 square meters/hour</b>
Payload	<b>300 kg</b>
Pulling	<b>400 kg</b>
Replacing battery	<b>10 sec</b>
IP	<b>67</b>
Climbing	<b>up to 40 degrees</b>
Stairs-climbing	<b>Yes</b>
Over-obstacle capacity	<b>Max 250 mm (height)</b>
Weight	<b>120 kg</b>
Control	<b>Manual or autonomous (optional)</b>
Manual remote-control distance	<b>Max 2 km (without obstacles)</b>
Number of cameras	<b>2 x 1080p 2Mpx - front and rear</b>
Thermal camera	<b>Integrated (integrated on mechanical pole - optional)</b>
GPS	<b>Yes - F9P and RTK</b>
GPS precision	<b>1-100 mm</b>
Side tilt	<b>Max. 20°</b>
Increased durability	<b>Yes</b>
Explosion resistance	<b>Limited</b>



+421 911 505 711  
 sales@mrazrobotics.com  
 www.mrazrobotics.com  
 Priemyselna 4, 921 01 Piestany

