



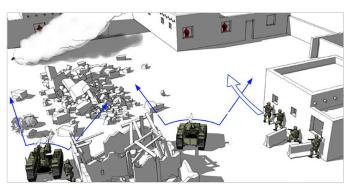
WINGMAN TO DISMOUNTED UNITS

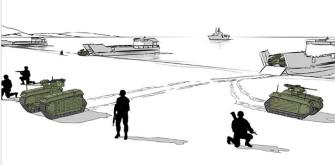
THeMIS COMBAT WITH GUARDIAN 2.0 RWS

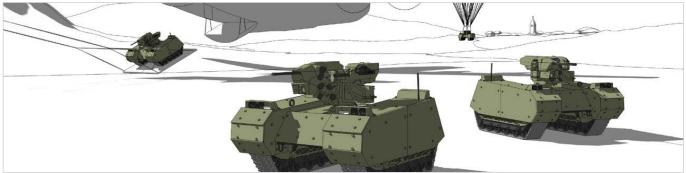


SPECIFICATIONS

THeMIS COMBAT USECASES







THeMIS Combat UGVs provide high precision direct fire support for manoeuvre units and act as a force multiplier. With the two-axis gyro-stabilized GUARDIAN 2.0 remote weapon station, advanced sensors and fire control system,

THeMIS Combat UGVs allow units to assess and engage the enemy at maximum standoff distances, increasing force protection and survivability day or night, and in adverse weather conditions.

SPECIFICATIONS

MOBILITY

Dimensions	240 cm x 205 cm x 190 cm	
Combat weight	1810 kg*	
Additional payload weight	570 kg*	
Max. speed	20 km/h	
Ground clearance	up to 60 cm	
Max. grade	31 deg / 60 %	
Fording depth	60 cm	
Run time (hybrid, full internal tank)	up to 15 h	
Run time (full load, silent mode)	up to 1,5 h	
Line of sight control range	up to 10 km	

* Depending on the final configuration

SPEXER 2000 3D MK III

Radar technology	Full coherent pulse Doppler Radar	
Frequency range	X-band radar	
Azimuth coverage	Up to 360° Single antenna 120°	
Elevation coverage	Up to 90°	
Track while scan	>300 targets in 120° Pedestrian: 20km	

GUARDIAN 2.0 RWS

GUARDIAN 2.0 is a two-axis gyro-stabilised remote weapon station that can be operated at day or night in adverse weather conditions. The system can be installed on different types of platforms and vehicles.

The system can mount various weapon calibres: 5,56mm, 7,62mm, 12,70mm, and 40mm MKII grenade launcher, as well as smoke launchers.



GUARDIAN 2.0 includes an electro-optical system with an independent Pan &Tilt subsystem, integrating a thermal camera, a day sight camera and a laser range finder. A laser pointer can also be included.

Its light and modular design provides high operability against asymmetrical threats. It is a highly cost-effective defence solution.





WEAPON STATION

PLATFORM

Mounting type: 2-axis gyro-stabilized

Weapon: Standard configuration with 12.7mm (M2) and grenade launcher (MK19).

Option to mount other calibres: 5,56mm (MG4), 7.62mm (MG3), 14.5 (KPVT), Gatling DILLON M134D, smoke launchers (40, 76, 80mm)

Elevation: -20° to +60°

Azimuth: Nx360°

Stabilization level: <0,5 mrad

Weight*: < 180 kg

*Without weapons and munition

OTHER FEATURES

Configurable inhibition of fire zones for operational safety

GPS system included

Data exchangeability with external C4I

Ballistic calculator for high firing accuracy

Embedded simulator for training

Easy to integrate with any external sensor

ELECTRO-OPTICAL SYSTEMS

UNCOOLED IR CAMERA (OPTIONAL)

Micro-bolometer LWIR Discrete Zoom: 3x

640 x 480 pixels 17\mum WFOV: 12 \circ (H) \times 9 $^{\circ}$ (V)

NFOV: 4°(H) x 3°(V)

COOLED IR CAMERA

640 x 512 15 μm Continuous Zoom: 8x

3rd Gen MWIR detector WFOV: 17.62°(H) × 14.09°(V)

NFOV: $2.20 \circ (H) \times 1.76 \circ (V)$

DAY SIGHT CAMERA (DSC)

HD CMOS sensor

1920 x 1080 pixels 3.45 µm

Continuous Zoom: 20x

WFOV: 38.13°(H) x 21.38°(V)

NFOV: 1.90°(H) x 1.07°(V)

LASER RANGE FINDER (LRF)

Accuracy: ± 5m

Max. Range: 15 km

Programmable frequency 1Hz - 10Hz

RANGES	UNCOOLED IR	COOLED IR	DSC
Detection	≥8.5km	≥17.3km	≥15km
Recognition	≥2.9km	≥5.4km	≥10.3km
Identification	≥2.0km	≥3.6km	≥8.4km







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