

Uncrewed Turret System Specification

Capability Overview



Uncrewed System for Modern Warfighting

✓ Multi-Platform Versatility

The uncrewed turret is a remotely operated system designed for integration across a wide range of host vehicles, including 4x4, 6x6, 8x8 and tracked platforms.

✓ Proven Technology

The turret system leverages technology proven through trials and developed and qualified for the UK MOD's WCSP and AJAX armoured fighting vehicle programmes.

✓ GVA Digital Backbone

A fully digital, Generic Vehicle Architecture (GVA) compliant design ensures seamless compatibility and interoperability with allied platforms and capabilities.

✓ Enhanced Force Protection and Survivability

By removing operators from direct exposure to battlefield threats, the uncrewed turret significantly enhances force protection. Survivability is further enhanced through scalable composite armour and the integration of active protection systems.

✓ Modular and Scalable

A modular design supports multiple weapon and mission system configurations, enabling rapid adaptation to specific roles and threats. One system, multiple mission roles - maximising value through reconfiguration and reuse.

Technical Data

Parameter	Value
Electronic Architecture	Advanced, digital GVA compliant modular electronic architecture
Control	Remotely operated from a modular, configurable crew station
Platform Interface	Surface mounted – 1.6 metre diameter race ring
Weight	3500 kg in basic configuration with STANAG Level 4 protection
Width	2 metre without additional mission systems
Height	High elevation turret 0.9 metre, standard elevation turret 0.7 metre high
Primary Weapon	30mm Mk44 Bushmaster chain gun
Primary Weapon Rate of Fire	200 rpm
Primary Weapon Modularity	Options to fit 25/40mm Mk44 Bushmaster chain guns or 40mm CTAL Cannon
Coaxial Weapon	M240 FN MAG (GPMG) 7.62mm machine gun
Coaxial Weapon Rate of Fire	650 to 1000 rpm
Coaxial Weapon Modularity	Options to fit M134 or L94A1 7.62mm machine guns
Primary Weapon Ready Rounds	200 ready rounds of 30x173mm ammunition
Coaxial Weapon Ready Rounds	1600 ready rounds of 7.62mm ammunition

Parameter	Value
Weapon Loading	Ammunition loading from under armour
Elevation Range	-10 to +45 Degrees. High Elevation option (-10 to +75 degrees)
Traverse Rotation	Continuous 360° rotation
Traverse Rate	1rad/s – 6s for 1 rotation
Elevation Rate	1rad/s
Reversionary Control	Manual traverse and elevation control upon power loss Optical back up sight for target acquisition upon power loss
Engagement Range	3000m depending on ammunition type
Weapon Control	Fully stabilised fire on the move weapon control
Engagement Control	High integrity fire control computer and algorithm with correction
Gunnery Sight	High elevation, stabilised gunnery sight with day camera and Medium Wave Infra Red and Thermal Imaging. Laser Range Finding HD day sensor (2048x1536) with continuous zoom Optional ballistic sight protection
Situational Awareness	360-degree situational awareness, day camera and thermal imaging
Panoramic Sight	360-degree continuous rotation Dual axis stabilised head. -20 to +75° Laser designator 3733 >5km Continuous zoom thermal image 3x HD day cameras with continuous zoom Medium Wave Infra Red and Long Wave Infra Red options Artificial Intelligence object tracking, detection and classification software
Engagement Sensor	Meteorological sensor
Defensive Aides	2x 76mm multi barrel smoke dischargers
Physical Protection System	Composite armour providing STANAG Level 4 protection
Quiet Mode Operation	Greater than 6 hours of operation in quiet mode
ATGM	Options to fit customers preferred ATGM
Roles	Can be configured for infantry fighting, C-UAS, and Ground Based Air Defence roles



Mission System Options

- ✓ Integrated SkyKeeper air picture for aerial and land target tracking and engagement
- ✓ Integration of customer preferred hard and soft kill Defensive Aides Suite
- ✓ Integration of customer preferred Laser Warning Systems and SHORAD
- ✓ Integration of customer preferred Remote Weapon Stations
- ✓ Turret can be palletised to operate as a remotely operated end effector as part of a Ground Based Air Defence or border defence system

Contact

 uncrewed.turret.lmuk@global.lmco.com

