HYUNDAI MOTOR GROUP

HYUNDAI WIA

MOBILE TYPE
105mm LIGHT SELF-PROPELLED HOWITZER

MAIN CHARACTERISTICS

- Highly mobile & lightweight self-propelled howitzer optimized for light infantry brigade or airborne operation unit.
- Combination of field-proven subsystems in Korea and Worldwide (Howitzer Gun, Vehicle and C4I systems)
- Shoot & Scoot through shooting data link and automatic gun laying capability.
- Accurate firing using GPS, INS and VMS (Velocity Measurement Sensor).
- Superior maneuverability in rough and narrow terrain and aerial transportability with helicopter.
- All the vehicles equip B2CS and TMMR.
- Minimized operating personnel.(Battery Command : 4, Artillery Operation : 4)

KEY COMPONENTS AND SPECIFICATIONS

· TMMR : Tactical Multi-band Multi-role Radio
· B2CS : Battalion and Below Command and Control System

ARTILLERY VEHICLE

Combat Weight	7 ton
Operating Crew	2 Persons
Vehicle	K351 Light Tactical Vehicle (KIA)
Elevation Range	-5°to +65°
Traverse Range	± 270°
Control Accuracy	Within 1 mil
Position Accuracy	Within CEP 10m
Rate of Fire	Maximum 10 rpm, Sustained 3 rpm
Maximum firing range	14.7 km(charge 8), 18km (RAP)

FIRE COMMAND VEHICLE

Combat Weight	5.7 ton
Operating Crew	4 Persons
Vehicle	K152 Light Tactical Vehicle (KIA)
Remarks	On board BTCS (Battalion Tactical Command System)

AMMUNITION VEHICLE

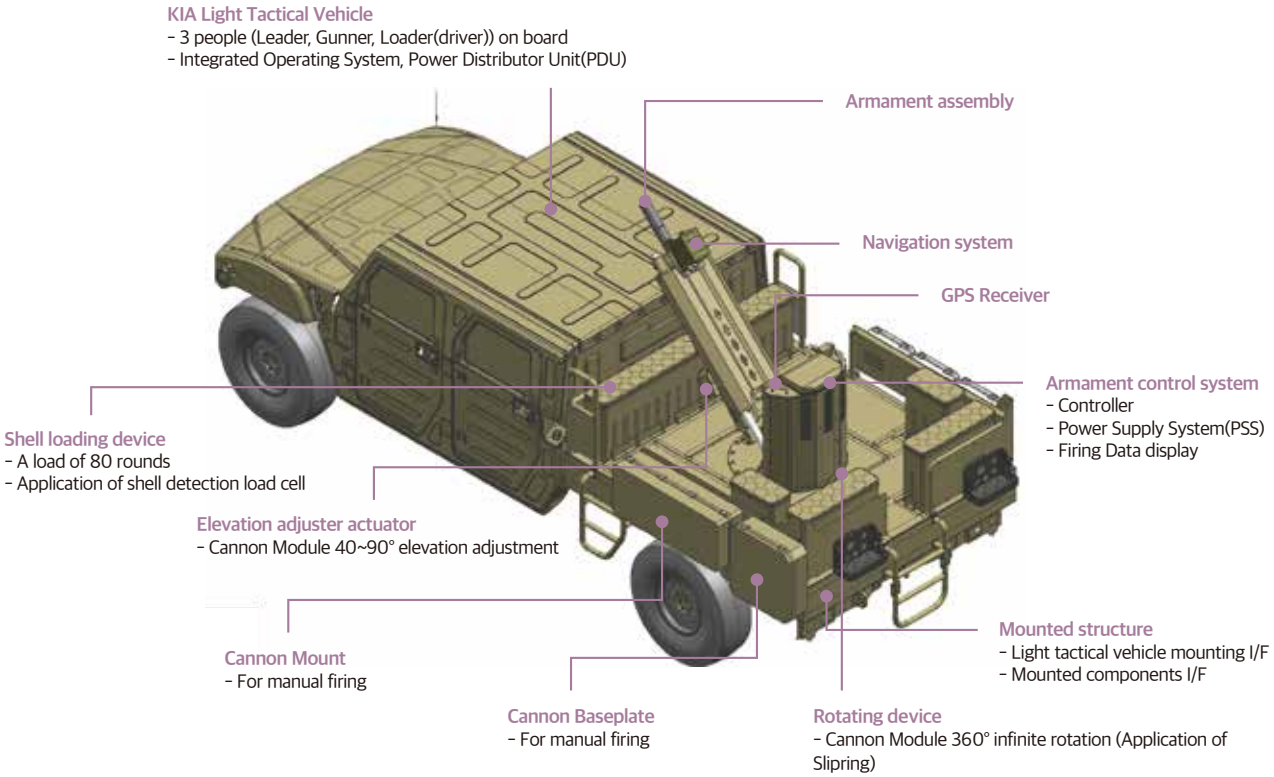
Combat Weight	7 ton
Operating Crew	2 Persons
Vehicle	K351 Light Tactical Vehicle (KIA)
Loading Capacity	40 Rounds Ammunition

VEHICLE-MOUNTED 81mm MORTAR

MAIN CHARACTERISTICS

- Mounted self-propelled weapon system with automatic laying & maneuver method
- Automated Weapons System for fastest laying & maneuver time and reduction of operating crew
- Applying Light Tactical Vehicle to maneuver narrow terrain and minimize costs
- Application of Hydro-Pneumatic buffer Systems
- Application of Inertial Navigation System(INS), Driving and Electric Controller(DAEC) for automatic laying & maneuver

KEY COMPONENTS AND SPECIFICATIONS



01 MORTAR SYSTEM

- **Cannon laying :** Automatic/Semiautomatic /Manual(within 10 seconds)
- **Elevation** : 45 ~ 85°(driving speed 10°/sec)
- **Deflection angle :** 360°infinite (driving speed 20°/sec)
- **Sighting Error :** Max 3 mil(1σ)
- **Navigation System :** Send location/orientation information

02 ARMAMENTS ASSEMBLY

- **Applied Cannon :** 81mm Mortar (Inconel material applied)
- **Loading/ Percussion method :** Manual loading/Drop impact type

03 LIGHT TACTICAL VEHICLE

- **Maximum Weight :** 7tons
- **Engine Power :** 225ps
- **Maximum Speed :** 130 km/h
- **Number of passengers :** 1+3
- **Range :** 560 km

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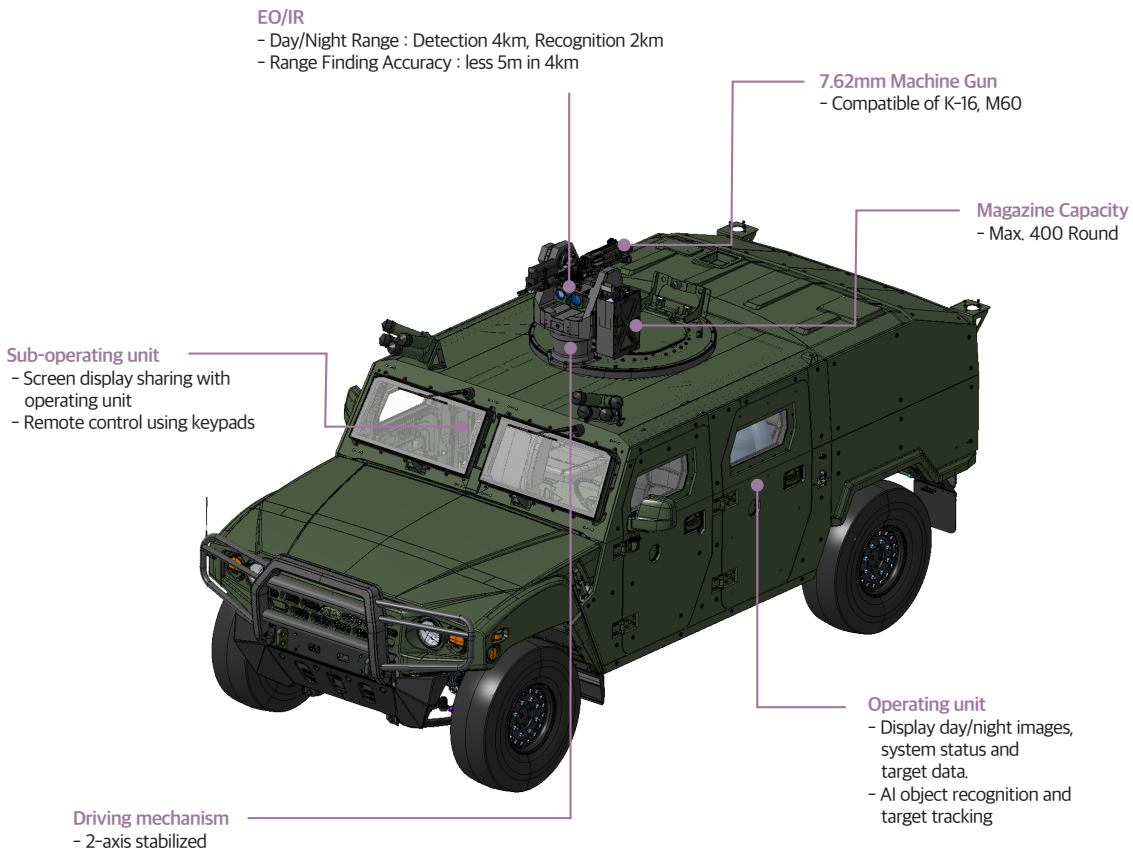
AI-BASED INTELLIGENT RCWS FOR KLTV

MAIN CHARACTERISTICS

· RCWS mounted on KIA K153 Light Tactical Vehicle offering improved combat capability.
· Improved on-the-move firing accuracy through superior stabilization control.
· Maximized target identification through AI object recognition technology.
· Applicable weapon : 7.62mm machine gun (K-16 and M60)
· Magazine capacity : 400 ready round

KEY COMPONENTS AND SPECIFICATIONS



01 REMOTE CONTROL WEAPON SYSTEM

· **Elevation** : -20 ~ 75°(@ 75°/sec)
· **Traverse** : 360°x n (@ 90°/sec)
· **Stabilization Accuracy** : Less than 0.8 mrad RMS
· **Aiming Accuracy** : Less than 2.4 mrad RMS

02 AI OBJECT RECOGNITION

· Real-time Object Detection Model
· GPU-based high speed AI image processing
· Application of Supervised learning data

03 EO / IR

· Day/Night 4km Detection, 2km Recognition
· **Range Finding Accuracy** : less 5m in 4km
· Day/Night Image fusion technology

* EO/IR : Electro-Optical / Infrared

▶ 12.7mm MG, 40mm AGL and Target Detection Radar can also be mounted.