

LIGHT ARMORED VEHICLE RECONNAISSANCE

MISSION ROLE REQUIREMENTS

- Carry out reconnaissance and surveillance functions at battle group and brigade level
- Strategic mobility to reach theater of operations
- Tactical mobility for effective use of firepower
- Firepower to defeat soft and light armored targets
- Battlefield survivability to carry out combat missions
- Supportability and affordability

Size/Weight

Length:	6390 mm	251.6 in.
Width:	2500 mm	98.4 in.
Height:	2692 mm	106.0 in.
Combat weight:	13,400 kg	29,500 lb.

Performance @ GVW

Governed speed:	100 kph	62 mph
Max. range:	660 km	410 miles
Min. turn diameter:	15.545 m	51 feet
Max. trench crossing:	2057 mm	81 in.
Max. grade:	60%	
Max. side slope:	30%	



LAV RECCE

GENERAL DYNAMICS

Land Systems-Canada

Strength on Your Side™



GENERAL STATISTICS

Power Train & Suspension

Engine:	275 hp Detroit Diesel 6V53T
Transmission:	Allison MT653 5 speeds forward – 1 reverse
Transfer case:	1
Differentials:	4 automotive
Suspension:	8 wheel dependent
Full time 4 wheel drive (rear)	
Selectable 8 wheel drive	
Power steering	
Power brakes	

Air Transportability

(1) C-130 (2) C-141 (8) C-5A

Doors/Hatches

2 rear
2 rear roof
1 driver
1 gunner
1 vehicle commander
1 left hand side escape
1 winch
1 signal entry panel

Electrical System

24 volts negative ground

- waterproof
- radio suppressed system
- wiring, connectors, breakers, harnesses IAW MIL-STDs
- 8 batteries per MS 52149E (AT)
- 300 amp alternator
- 2 500 amp slave receptacles

Personnel

4 total
1 driver
1 vehicle commander
1 gunner
1 surveillance operator

Fire Suppression

- Automatic fire extinguishing system
- Halon 1301 in crew compartment and ozone safe suppressant for engine compartment

Hot/Cold Weather Operation

- dual hydraulically driven air conditioning system
- fuel fired high capacity crew heater
- engine coolant preheater for -40°C cold start
- engine glow plugs for cold start

Surveillance Equipment

All weather under armor surveillance operator's station controls and monitors all surveillance sensors

Battle Group Equipment

- man portable dismounted surveillance sensors mounted on tripods
- lightweight copper/fiber optic composite cable allows for sensor deployment up to 200 m from the operator's station in the vehicle
- two tripods
- battlefield surveillance radar with 3200 mil azimuth coverage
- 6400 mil azimuth coverage for electrooptic sensors
 - long range TV camera
 - laser range finder
 - customer furnished thermal imager (NODLR)

Brigade Equipment

- electrically powered extendible mast projects surveillance sensors 10 m above ground
- battlefield surveillance radar with 3200 mil azimuth coverage
- 6400 mil azimuth coverage for electro-optic sensors
 - long range TV camera
 - laser range finder
 - high performance FLIR

Navigation

- digital compass system (DCS)
 - driver's display
 - commander's display
- DCS interface with PLGR global positioning system
- dead reckoning backup to PLGR
- LRF range available on commander's display

Armament

- Primary:
- M242 25mm chain gun
- Secondary:
- C6 7.62mm machine gun mounted coaxially to the main gun
- Supplementary:
- C6 7.62mm machine gun (pintle mounted)
- Ancillary:
- Smoke and fragmentation grenade system
 - 2 clusters of 4 tubes

Ammunition

Ready:

- 210 rounds of 25mm (150 rounds of 25mm in primary bin) (60 rounds of 25mm in secondary bin)
- 440 rounds of 7.62mm in coaxial C6 weapon bin
- 220 rounds of 7.62mm in supplementary weapon bin
- (8) 76mm grenades

Stowed:

- 210 rounds of 25mm
- 660 rounds of 7.62mm
- (8) 76 mm grenades

Vision

Driver:

- (3) periscopes with 2 levels of laser protection (upgradable to 3 levels of protection)
- provisions to accommodate driver's thermal viewer

Commander:

- 6400 mil field of view
- (7) periscopes with 2 levels of laser protection (upgradable to 3 levels of protection)
- DIM 36 target acquisition sight
- low light GEN III image intensification I² sight
- HIRE thermal sight remote display

Gunner:

- (1) periscope with 2 levels of laser protection (upgradable to 3 levels of protection)
- DIM 36 target acquisition sight
- HIRE thermal sight through sight laser range finder

Rear Doors:

- (2) vision blocks MIL-B-11352 with laser protection

Equipment

Self-recovery Winch

- Hydraulic (front-mounted 6804 kg dynamic pull)

NBC System

- GID-3 chemical detector
- Radiac set AN/VDR 2 radiation monitor
- Ventilated respirator system

Threat Detection

- laser warning receiver (LWR)
- commander's LWR display shows threat direction wrt turret
- driver's LWR display shows threat direction wrt vehicle