The Buffalo Mine Protected Clearance Vehicle (MPCV) is the recognized leader in route clearance missions around the globe and is currently in service with the United States, United Kingdom, Canada, France and Italy.
The Buffalo Mine Protection Clearance Vehicle (MPCV) offers the Warfighter the unique capability of remote interrogation of mines, IEDs or suspected threats from within the protected confines of a v-shaped, monocoque, steel hull. It offers unmatched survivability, proven mission effectiveness, and the ability to traverse aggressive off-road terrain. The Buffalo MPCV features seating for 6 personnel, external video camera systems, easy access ingress/egress points, engine & crew AFES, internal & external add-on armor options, interrogation arm enhancements (such as air spade) and the ability to be easily repaired after an IED or blast event.

**GENERAL**
- **Occupant** – Driver, Co-Driver, 4 Crew Members
- **Curb Weight** – 53,500 lbs (24,267 kg)
- **Combat Weight** – 57,000 lbs (25,855 kg)
- **GVW** – 66,000 lbs (29,937 kg)
- **Height** – 150 in (3.81 m)
- **Width** – 112 in (2.85 m)
- **Length** – 344 in (8.74 m)

**MOBILITY**
- **Top Speed** – 60 mph (97 km/h)
- **Acceleration** – 0-30 mph (15 sec)
- **Range** – 300 miles (483 km)
- **Fording** – 40 in (1.02 m)
- **Approach** – 24˚
- **Departure** – 56˚
- **Side Slope** – 30% (16.7˚)
- **Ground Clearance** – 15 in Front; 23 in T-Case Cover; 12 in Rear

**SYSTEMS**
- **Interrogation Arm** – 30 ft Reach with Integral Spork and Air Spade (200 CFM)
- **Climate Control** – Fresh Air Intake with Direct Ducting (1 Front & 2 Rear Units)
- **Interior Cooling** – 81,000 BTU/hr
- **Interior Heating** – 85,000 BTU/hr
- **Electrical Power** – 24V/400A Alternator (peak) with 12V power outlets
- **Batteries** – 4 x 12V Wired for 24V
- **Communications** – Rear Mounting
- **Doors** – 1 Rear
- **Hatches** – 6 Topside
- **Basic Issue Items (Tool Kit)** – Included

**KEY CHARACTERISTICS**
- **Engine** – Caterpillar C13 (12.5 liter)
- **Power** – 440 hp @ 1800 rpm
- **Torque** – 1,483 @ 1400 rpm
- **Transmission** – Caterpillar CX31, 6 Speed Automatic
- **Transfer Case** – R. Cushman, 2 Speed with Neutral
- **Front Axle** – Axletech 5000 Series
- **Rear Axle** – Axletech 4000 Series
- **Tires** – Michelin 1600R20 XZL with RFIs
- **Front Suspension** – Floating Leaf Spring with Shock Absorbers
- **Rear Suspension** – Walking Beam Suspension with Shock Absorbers

**SURVIVABILITY**
- Steel Monocoque Structure
- Modular Systems for Expedient Post-Blast Repairability
- Large Windows for Enhanced Situational Awareness
- Front/Rear Video Camera System
- Add-on Armor – Internal/External Mine Blast/IED Protection – CLASSIFIED
- Ballistic Protection – CLASSIFIED

**TRANSPORTABILITY**
- **Air** – C-17, 1 Each

**OPTIONAL EQUIPMENT**
- **AFES** – Automated Engine & Crew Systems with Manual Extinguishing
- **RPG Protection** – L-Rod Bar Armor
- **EFP Protection** – Force Armor
- **Remote Weapons System (RWS)**
- **External Fire Fighting System**