

UNMANNED GROUND VEHICLE TECHNOLOGY

TERRAMAX[®]



Oshkosh Defense[®] M-ATV equipped with TerraMax[®] UGV technology autonomously performs a route clearance operation followed by a convoy of Oshkosh MTVRs.

The Next Generation Convoy. Oshkosh Defense[®] TerraMax[®] Unmanned Ground Vehicle Technology.

Oshkosh Defense[®] TerraMax[®] Unmanned Ground Vehicle (UGV) technology delivers force protection and multiplication advantages for multiple mission profiles.

TerraMax UGV is designed as a modular appliqué kit that can be applied to any tactical wheeled vehicle. Its user-friendly interface enables a single operator to confidently supervise multiple unmanned vehicles while providing beyond line of sight situational awareness. TerraMax UGV-equipped vehicles function autonomously across complex terrain, day or night, in any weather conditions and seamlessly collaborate with manned vehicles.

Enhance situational awareness. Retain vehicle performance. Sustain full operational tempo through every mile of every mission. TerraMax UGV technology reduces distractions in the field and enables troops to focus on mission success.

TERRAMAX® | UNMANNED GROUND VEHICLE TECHNOLOGY

- Efficient means to perform critical missions and reduce exposure to threats in contested areas of operation:
 - Single operator can supervise up to 5 UGVs in one supply convoy
 - Navigation can be sustained for over 10 km in GPS-denied environments
- Significantly outperforms tele-operated systems with OPTEMPO up to 60 kph supported in all weather conditions, day or night
- Tightly integrated kit enables optional autonomous operation:
 - Instantly reverts to manned operation when needed
 - Mobility and payload capacity unaffected by kit installation
 - Software interprets complex surroundings and coordinates maneuvers with manned vehicles
- Additional systems integration via widely adopted open architecture standards
- Extensible to route clearance, perimeter security and other operations
- User-friendly Operator Control Unit (OCU):
 - Displays only immediately necessary information
 - Facilitates swift input to maintain operational tempo
 - Requires only infrequent monitoring by operator
 - Allows a single operator to control multiple UGVs
 - Easy to learn interface is immediately familiar to today's users
 - Simulation environment enables user training in less than three days



Operator Control Unit & Interface



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