

TALON[®] V

Man Transportable Robot

Fifth Generation. IOP Compliant. Combat-Proven.

For over 10 years TALON robots have been used for Explosive Ordnance Disposal, reconnaissance, sensing, communications, defense and security. TALONs have earned a reputation for durability, flexibility and performance in keeping military and first responders out of harm's way. Our latest model (TALON V) has been designed to provide open architecture including additional features and enhanced performance.

IOP Compliant: TALON V is the first IOP compatible robotic platform available in its class. This next generation TALON robot provides 16 total I/O ports including IOP A and B connectors. The software is JAUS AS4 compliant and supports Plug and Play discovery of IOP devices.

Mobility: TALON V features a new high performance drive motor option which is capable of speeds up to 6 miles per hour, with enough torque to climb a 45° staircase.

Optics: TALON V offers a variety of high definition and standard definition camera options in addition to an optional, dual purpose Thermal/Daytime zoom camera.

Manipulator: TALON V offers a new Heavy Lift, Multiple Degree-of-Freedom Arm Manipulator. TALON V also supports a variety of third party and legacy TALON manipulators.



FEATURES/BENEFITS

- Interoperable (IOP V1 compliant) with third party components
- SAE JAUS AS4 compliant
- Up to 1080i HD video
- Highly mobile
- Rugged and reliable
- Configurable for combat engineers, EOD, CBRNE
- User-defined graphical interface and programmable manipulator presets
- Speeds up to 6 MPH
- Flexible controller options
- Autonomy and mapping

TALON V

The IOP Compliant Tactical Robot



Specifications

Mechanical Specifications

Base Size (L x W x H)	34.5" x 22.75" x 33" (top of pan tilt) With arm: 43.5" x 22.75" x 33"	Max Total Payload Weight	150 lbs.
Weight	150 – 225 lbs. (configuration dependent)	Vertical Reach	77" from floor
Speed	Up to 6 mph	Horizontal Reach	62" from front most edge of track
Steepest Grade	45° slope	Gripper Force	110 lbs.
Turning Circle	52.5" diameter	Gripper Rotation	360° (continuous)

Electrical Specifications

Advanced Atom Processor	Gigabit Ethernet Communications Backbone
Increased RAM	Digital, closed loop motor control
External IP Radio via Ethernet Port	

Available I/O Ports

2x IOP A connectors	1x USB port
1x IOP B connector	1x CAN bus
4x Gigabit Ethernet and 12VDC (24VDC opt.)	6x Interfaces for legacy TALON accessories
2x RS-232 ports	



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