



TALON[®]

Multi-Mission EOD Robot

For 20 years TALON[®] robots have been used worldwide for explosive ordnance disposal, chemical, biological, radiological, nuclear, reconnaissance, defense, security and rescue missions. TALON[®] has earned a reputation for durability, flexibility and performance in keeping the Military, first responders and civilians out of harm's way.

Proven Leadership in Robotics

TALON[®] robots have been in continuous, active service since 2000 when they were first used in Bosnia for moving and disposing of live explosives. They were also the first military robot to be used in active combat in Afghanistan and in Iraq. Now on its fifth generation, TALON 5 is the first Interoperability Profile (IOP) fielded robotic system that has successfully gone through Army Test and Evaluation Command testing.

Superb Mobility

Built to be rugged, TALON[®] has proven to be operational in the most challenging environments and adverse weather conditions. TALON 5's optional high-performance drive motor provides enough torque to climb a 45° staircase.

Key Features and Benefits

IOP and SAE JAUS AS4 compliant

Easy to maintain and repair

Highly mobile

Rugged and reliable

Configurable for combat engineers, EOD, CBRN

Heavy-lift, multiple degree-of-freedom manipulator arm

User-defined graphical interface and programmable manipulator presets

Autonomy and mapping

High-definition video

Powerful, secure, digital encrypted communications

Flexible controller options

Keeps the Military, law enforcement and first responders away from danger

Provides real-time information and situational awareness to support critical and often dangerous missions and ground operations

Reduces cost of life cycle support logistics

Saves lives

TALON® 5 DOF General Specifications

Physical	
Length	34.5" (87 cm) With arm: 43.5" (110 cm)
Width	22.75" (58 cm)
Height	33" (83 cm)
Weight	178 lbs. (81 kg) (with batteries)
Features and Capacities	
Endurance	3-4 hours (mission dependent)
Obstacle Navigation	Up to 43 degree stairs Up to 45 degree slide slope Up to 15" (38 cm) snow or demolition rubble
Tow Capacity	220 lbs (100 kg)
Turning Circle	52.5" diameter (133 cm)
Max Payload Weight	150 lbs. (68 kg)
Vertical Reach	77" from floor (195 cm) Reach to wrist: 66" (168 cm) Reach to gripper tip: 77" (195 cm)
Horizontal Reach	62" from front most edge of track (157 cm) Reach to wrist 49" (125 cm) Reach to gripper tip 59" (152 cm)
Gripper Force	110 lbs (49.9 kg) gripping strength
Gripper Rotation	360 degree rotation (continuous)
Controller Options	LCU (Laptop Control Unit) TRC (Tactical Robot Controller) UC-LITE (Universal Controller - Lightweight Interoperable Tactical Equipment)
Communications	External IP Radio (Persistent System's MPU5 Radio) Gigabit Ethernet Communications Backbone
Operating Range	Exceeds over 2,600 feet (800 m) Line-of-Sight
Cameras	Gripper, Elbow, Rear (two options): Infrared illuminated analog cameras (gripper, elbow, rear), Pixels (HxV); NTSC: 510x49 IOP digital camera w/ 20 x digital zoom, 1/3" 2.1 Megapixel Color CMOS sensor, 720p resolution, Low light - 0.1 lux/F=1. PTZ: Auto focus color zoom camera, NTSC - 1 / 4 Supper HAD CCD, 680,000 pixels, 470 TV lines, 300:1 (26X optical - 12X digital)
Optional Cameras	Thermal color or B&W (supported) Night vision (supported)
Available I/O Ports	2x IOP A connectors 1x IOP B connector 4x Gigabit Ethernet and 12VDC (24VDC opt.) 2x RS-232 ports 1x USB port 1x CAN bus 6x Interfaces for legacy TALON accessories

Note: Due to continuous process improvements, specifications are subject to change without notice.



Photo credit: US Naval Institute



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