

# The Talon

## *Gyro-Stabilized Marksman Platform*



*“Stabilize Your Shot”*

Gyro Stabilized - Electronically  
Utilizes Operator's Rifle via QD  
Highly Portable (Only 54 lbs)  
Unprecedented Accuracy while moving  
Allows FULL scope power during movement  
Hand Controller with HD video (scope and wide angle views)  
Easily secured to aircraft, boats, or vehicles

# The Talon

Ground-breaking technology - Designed to keep you on target

Finally, you can obtain precise accuracy from any helicopter, watercraft, or vehicle, using your rifle and scope with our gyro-stabilized TALON platform system.

This pinpoint precision is achieved by incorporating state of the art mil-spec gyros, high speed servos, and advanced circuitry into a precision machined two axis turret. Our MEMS gyros send out digital attitude data to the high speed servo motors, via a custom engineered and programmed circuit board. This allows stabilization correction solutions to be made thousands of times per second.

The marksman can operate the TALON from a revolutionary hand controller with an integrated HD color monitor and fire control system. Laser range and inclination data is overlaid directly to the hand controller's monitor.

The TALON is easily transported by a single operator. Installation of the TALON is rapidly performed by securing it with any type of cargo straps. Quick Disconnect (QD) mounts handle any Picatinny rail equipped rifle making attaching/detaching your weapon system lightning fast. The TALON mount allows the shooter to stay on target, even at full optic magnification, from a helicopter or any other moving vehicle.



TALON SPECIFICATIONS	
Armament Adaptability	
Weapon Compatibility:	Rifle or carbine length with a Picatinny railed handguard mounted at 6 o'clock
Caliber range:	5.56 NATO to 300 WM
Optics:	Any standard riflescope
Stabilization Technology	
Gyros:	2 x Milspec MEMS Gyros with output to CPU
Motors:	2 x Brushless direct drive high speed servo motors
CPU:	Proprietary digital servo controls in a custom designed and programed CPU
Stability:	5 to 500 $\mu$ rad (application dependent), 100 $\mu$ rad or better door mounted and hovering helicopter
Slew Rate:	60 deg/sec
Optical Sensors:	2 x 720p HD Daylight cameras, switchable (scope view and wide angle view)
Field of Regard:	AZ Angle: 90 Deg, +/- 45deg EL Angle: 75 Deg, 50 Deg look down from 0, 25 Deg look up from 0
Rangefinder	
Range:	2 Kilometer IR rangefinder
Hand Controller	
Joy Stick:	User option - displacement or force control
Monitor:	Integral 7 inch HD color monitor (NVG compatible)
Remote Trigger Actuator	
Range of Use:	Adjustable for most standard triggers - integrated into Hand Controller
Electrical	
Input Voltage:	18-33VDC
Power:	Continuous: 3 amps Transient: 16 amps
Power Source:	Auxiliary power from host vehicle with optional battery pack for standalone use
Physical Characteristics	
Operating Temperature:	-20°C to +50°C
Weight:	54 lbs. (no payload)
Length:	14.8 inches
Width:	11.5 inches
Height:	29.7 inch plus 8 inch adjustable extension



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