

# TALON<sup>®</sup>

HIGH-PERFORMANCE PENTA-SENSOR EO/IR SYSTEM  
IN A STABILIZED, LIGHTWEIGHT 9" PACKAGE



## APPLICATIONS

SURVEILLANCE  
RECONNAISSANCE  
TARGET ACQUISITION & TRACKING  
FORCE PROTECTION  
SEARCH AND RESCUE (SAR)  
MANNED & UNMANNED PLATFORMS

## FEATURES

Compact, light weight  
Penta-sensor configuration  
State-of-the-art imaging  
Digital and analog video  
Embedded IMU and LRF  
Laser Pointer or Illuminator  
Military qualified and field proven

## BENEFITS

Can be installed on wide range of platforms with low profile and low drag  
The most payloads available in a system of this type: infrared, CCD-TV, low light EMCCD-TV, Laser Rangefinder, Laser Pointer or Laser Illuminator, IMU  
Large format, 640 x 480 infrared camera with 10x continuous optical zoom (18x overall), plus continuous optical zoom color CCD and low-light EMCCD cameras deliver crisp, detailed images day or night  
Talon provides SMPTE digital video for all channels, ensuring the highest image fidelity and resolution. Analog video outputs also provided  
Embedded, self-contained capability that provides target geo-location, geo-pointing and full tactical targeting coordination  
Stealth capabilities that pinpoint targets and illuminate scenes for observers using night vision equipment and maximize sensor performance in extreme low-light conditions  
Talon's program-based pedigree for reliable operation in extreme environments is unsurpassed, with beyond-MIL SPEC environmental design



CCD-TV camera



IR camera



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## THERMAL IMAGER

Detector type	Indium Antimonide Focal Plane Array
Zoom ratio	10x continuous, 18x overall (all optical)
Image resolution	640 h x 480 v

## DAYLIGHT/COLOR CCD TV

Format	NTSC or PAL, SMPTE
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## ELECTRON MULTIPLICATION CCD LOW LIGHT TV (EMCCD TV)

Format	NTSC or PAL, SMPTE
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## EYESAFE LASER RANGEFINDER

Laser type	Class 1, Eyesafe
Max. range	20 km

## LASER POINTER

Nominal wavelength	830 nm
Classification	Class IIIb (per IEC 60825 & U.S. 21 CFR Part 1040)

## LASER ILLUMINATOR

Nominal wavelength	830 nm
Classification	Class 4 (per ANSI Z136.1-2000)

## STABILIZED GIMBAL ASSEMBLY (SGA)

Size	9" d x 13.8" h (22.9 x 35.0 cm)
Weight	32 lbs (14.7 kg)
Gimbal range of motion	360° AZ, 360° EL Continuous
Slew rate	0° to 140° /sec

## CONTROL ELECTRONICS UNIT (CEU)

Size	10.8" l x 10.5" w x 5.5" h (27.4 x 26.7 x 14.0 cm)
Weight	12.8 lbs (5.8 kg)
Interfaces	MIL-STD 1553, ARINC 429, RS-232 RS-422, Analog and Digital Video Output (SMPTE)
Power	18-32 VDC

## ERGONOMIC, RUGGEDIZED JOYSTICK CONTROL UNIT

NVIS compatible  
Fully sealed design



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**GEOLOCK™**



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GOVERNMENT SYSTEMS

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