TALON

HIGH-PERFORMANCE MULTI-SENSOR THERMAL IMAGING SYSTEM IN A COMPACT, LIGHTWEIGHT 9” PACKAGE

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

FEATURES
Compact, multi-sensor system
State-of-the-Art imaging
Low light
Embedded IMU/GPS and LRF
Laser Pointer/Illuminator
Analog and Digital Video Interfaces
Multi-target autotracker
Advanced fiber optic gyro stabilization
Military hardened and qualified

BENEFITS
Up to six simultaneous payloads in a 9” package: IR, color CCD, low light, laser pointer or laser illuminator, LRF, IMU
Continuous zoom 640 x 480 infrared camera and two EO options (color and color/low light combination) deliver high-resolution imagery day or night
Extreme low light capability in sub-quarter moon conditions. Works in ZERO ambient light conditions in conjunction with laser illuminator
Supports high accuracy range-to-target, target geolocation and GeoLock™ capability. Also works with platform GPS/INS/EGS Systems for higher accuracy solutions
Identifies targets for observers using NV devices while remaining invisible to others. The illuminator also augments performance in low light conditions
TALON provides NTSC or PAL analog video and SMPTE 292M and DVI digital video for all channels, maximizing resolution and range performance
Advanced capability that tracks targets or scenes with all imagers (IR, CCD, low light)
Outstanding gimbal stability maximizes EO and IR sensor range performance
TALON configurations delivered to multiple military programs. Proven quality, reliability and performance in the most demanding military environments

FLIR

CCD-TV camera
IR camera
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 – EO OPTION #1
Performance
Long Range using FLIR-designed optics with maximized focal lengths
Zoom
25x continuous zoom

COMBINATION COLOR CCD/LOW LIGHT TV – EO OPTION #2
Performance
Long Range extreme low light capability using FLIR-designed optics. Zero ambient light capability when used in conjunction with the laser illuminator
Zoom
10x continuous zoom Color CCD
10x continuous zoom low light

EYESAFE LASER RANGEFINDER
Laser type
Class 1 (eyesafe)
Max. range
20 km

LASER POINTER
Nominal wavelength
830 nm
Power
135 mW nominal
Classification
Class 3b (per IEC 60825 & U.S. 21 CFR Part 1040)

LASER ILLUMINATOR
Nominal wavelength
830 nm
Power
1.9 W
Classification
Class 4 (per ANSI Z136.1-2000)

TURRET SENSOR UNIT (TSU)
Gimbal range of motion
360° AZ, 360° EL Continuous
Slew rate
0° to 140°/sec

CONTROL ELECTRONICS UNIT (CEU)
Interfaces
MIL-STD-1553, ARINC 429, RS-232, RS-422, Analog and Digital Video Output (SMPTE). All interfaces also available in single LRU configuration
Power
18-32 VDC

MULTIPLE ERGONOMIC, RUGGEDIZED CONTROL UNIT OPTIONS
NVIS compatible
Fully sealed design

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