

TALON[®]

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



APPLICATIONS

SURVEILLANCE
RECONNAISSANCE
TARGET ACQUISITION & TRACKING
FORCE PROTECTION
SEARCH AND RESCUE (SAR)
PURSUIT AND PATROL
DRUG INTERDICTION
MINE DETECTION
ENVIRONMENTAL MONITORING

FEATURES

Compact, multi-sensor system
State-of-the-Art imaging
Digital Video Interface
IMU, Laser Pointer
and LRF
Military hardened
and qualified

BENEFITS

Up to 5 sensor payloads in a 9" package: IR, CCD-TV or EMCCD-TV, LRF, Laser Pointer, IMU
640 x 480 infrared camera with 10x continuous zoom, and matching CCD or EMCCD deliver crisp, detailed images day or night
TALON provides SMPTE digital video for all channels, ensuring the highest resolution images
Works with GPS/INS/AHARS systems to provide target geo-location and full tactical targeting coordination
TALON configurations delivered to multiple military programs, ensuring quality, reliability and performance



CCD-TV camera



IR camera



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THERMAL IMAGER

Detector type	Indium Antimonide Focal Plane Array
Wavelength	3.4 - 5.1 μm
Image resolution	640 h x 480 v

DAYLIGHT/COLOR CCD TV

Format	NTSC or PAL
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EYESAFE LASER RANGEFINDER

Laser type	Erbium-glass, 1.54 μm
Max. range	20 km

OPTIONAL LASER POINTER

Nominal wavelength	830 nm
Classification	Class IIIb (per IEC 60825 & U.S. 21 CFR Part 1040)
Beam divergence	0.2 mrad

STABILIZED GIMBAL ASSEMBLY (SGA)

Size	9" d x 13.5" h (22.9 x 34.3 cm)
Weight	32 lbs (14.5 kg)
Field of regard	360° AZ, 360° EL Continuous
Slew rate	0° to 140° /sec

ELECTRONICS CONTROL UNIT (ECU)

Size	10.8" l x 10.5" w x 5.5" h (27.4 x 26.7 x 14.0 cm)
Weight	13 lbs (5.9 kg)
Interfaces	Mil-Std 1553, ARINC 429, RS-232 RS-422, Analog and Digital Video Output
Power	18-32 VDC

HAND CONTROL UNIT OPTIONS

Ergonomic Hand Control Unit; Standard (NVIS compatible), Sealed
Laptop Control Unit (workstation/controlled environment); Optional (NVIS compatible)
Simplified Control Unit; Optional (NVIS compatible)



CORPORATE HEADQUARTERS

FLIR Systems, Inc.
27700A SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 800.727.3547

BOSTON

FLIR Systems, Inc.
25 Esquire Road
North Billerica, MA 01862
USA
PH: +1 800.464.6372

HUNTSVILLE

FLIR Systems, Inc.
675 Discovery Drive
Suite 103
Huntsville, AL 35806
USA
PH: +1 256.325.3547

WASHINGTON, D.C.

FLIR Systems, Inc.
2345 Crystal Drive
Suite 300
Arlington, VA 22202
USA
PH: +1 703.416.6666

EUROPE

FLIR Systems Ltd.
2 Kings Hill Avenue
West Malling, Kent
ME19 4AQ
United Kingdom
PH: +44.1732.220011

CANADA

FLIR Systems Ltd.
5230 South Service Road
Suite 125
Burlington, ON L7L 5K2
Canada
PH: +1 800.613.0507

SWEDEN

FLIR Systems AB
Rinkebyvagen 19
P.O. Box 3
SE-182 11 Danderyd
Sweden
PH: +46.8.753.2500

MIDDLE EAST

FLIR Systems Middle East
FZCO
Unit C-13
Dubai Airport Free Zone
P.O. Box 54262
Dubai
United Arab Emirates
PH: +9714.299.6898

www.flir.com/GS

