



**MEDIUM RANGE HD MULTI-SPECTRAL
SURVEILLANCE SYSTEM**

TacFLIR® 280-HDEP

The TacFLIR 280-HDEP is an essential system for ground vehicle surveillance and fixed installations. With an all-new stabilized payload assembly for enhanced reliability, the TacFLIR 280-HDEP is ready for a variety of land missions, and the modular and scalable control electronics unit (CEU) is capable of hosting powerful video processing and Aided Target Recognition (AiTR), as well as third-party algorithms.

Designed to meet the rigorous demands of military operations, the system delivers best-in-class EO/IR imagery and optional Display Interface Boards (DIB) which allow the operator to stream up to four independent video streams. In addition, there is also a removable terabyte hard drive w/DVR to record over 80 hours of compressed video and 250 screen captures.

FEATURES

MODULAR, SCALABLE COMPUTING POWER

Optional high-performance COTS COM Express computing and Graphical Processor Unit for advanced image processing and support of third-party algorithms.

READY FOR ANY ENVIRONMENT

Designed for mission variety of terrain and weather, TacFLIR 280-HDEP provides medium-range target detection, identification, and tracking.

MISSION FLEXIBILITY

Mission support for ISR on the move or stabilized, SAR, covert OPS, and more make TacFLIR 280-HDEP an essential system for nearly any scenario.

RELIABILITY AND RUGGEDNESS

Designed to IP rating and MIL-STDs for Environmental and EMI, and with improved high-performance electronics to enhance durability, pointing accuracy, whether stationary or on-the-move, and more.

AIDED TARGET RECOGNITION (AiTR)

Capable of hosting Aided Target Recognition (AiTR) from FLIR, the system provides target detection, and classification, reducing the operator workload, or cognitive burden.

APPLICATIONS

RECONNAISSANCE

SURVEILLANCE

FORWARD OBSERVATION

FORCE PROTECTION

SPECIFICATIONS

Thermal Imager	
Sensor Type	1280x720 InSb FPA
Wavelength	3-5 μ m
FOVs	Optical: 40°-2° continuous (20X) 4X E-Zoom: 0.5°
Daylight Camera	
Sensor type	1920x1080 CCD
FOVs	Optical: 54.4° to 1.5° (36X effective) 3X E-Zoom: 0.5°
Low Light Camera	
Sensor type	1280x720 sCMOS
FOVs	Optical: 52.1° to 1.4° (37X effective) 3X E-Zoom: 0.5°
Spotter Scope (Option)	
Sensor type	920x1080 CCD or 640x480 SWIR
FOVs	CCD: 29.9°, 4.83°, 0.92°, 0.51° (0.25° w/2X E-Zoom) SWIR: 32.8°, 5.32°, 1.01°, 0.56° (0.28° w/2X E-Zoom)
Laser Payloads	
Rangefinder (Option)	Max Range: 30 km Classification: Class 1
Illuminator (Option)	Power: 1W NIR or 1W SWIR Classification: Class 4
System Performance	
System type	Gyro stabilized Turret w/ separate Control Electronics Unit
Az. coverage	360° continuous
System Interfaces	
Digital video	SMPT E 292M/HDMI/Optional H.264 video over Ethernet (requires Vision Processor)/programmable independent video outputs (2 independent video outputs standard. 2 additional outputs with optional 2nd display interface board)
Analog video	NTSC/PAL
Control	RS-232, RS-422
Data	Gig-E, CAN Bus, RS-232, RS-422
Computer Resources & Processing	
Vision Processor - COTS COM Express Type 6 form factor (optional)	
GPU Co-Processor (optional)	
1TB removable hard drive for video storage (snapshot and motion) (optional)	
Internal 1 channel DVR (optional) (requires Vision Processor Option)	
Environmental	
Standards	MIL-STD-810, MIL-STD-461
Operating temperature	-40°C to 55°C
Power Requirements	
Voltage	24VDC
Consumption 2	296 W/12.4 AMPS typical with platform dynamics, 377W/15.7 AMPS peak
Anti-Ice	Additional 374 W/15.6 AMPS

Dimensions & Weight

TFU size	14.25"(d) x 16"(h) (362 x 406mm) cylindrical volume
TFU weight	</=60.2 lbs (27.3kg) (varies based on payloads)
CEU size	12.3 w x 14.6 d x 7.3 h (312 x 371 x 185mm)
CEU weight	</=31 lbs (14.1kg) (varies based on payloads)

Other Options & Accessories

Displays, video processing algorithms



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