

# TACFLIR® 280-HD

Compact long-range HD  
multi-spectral surveillance system

## APPLICATIONS

**RECONNAISSANCE  
SURVEILLANCE  
MILITARY POLICE  
SECURITY**

**FORWARD  
OBSERVATION  
FORCE  
PROTECTION**



TacFLIR® 280-HD is a high-performance land-based imaging system designed to identify and track smugglers, terrorists, or any other threat – day and night, and in the toughest terrain. Tailored for mobile deployment with high-definition imaging and powerful optics, TacFLIR 280-HD reveals the details necessary for long-range vehicle detection, identification, and threat assessment. In fact, the long-range performance allows operators longer standoff to detect and identify targets.

Optimized for vehicle operations, gyro-stabilized TacFLIR 280-HD provides crisp, stable imagery through total darkness and smoke while on the move. Qualified and rugged, it's built to MIL-STD-461 and MIL-STD-810. Customize payload with multiple options, including CCD or SWIR spotter scope, laser illuminator, and laser pointer. Internal navigation system and laser rangefinder provide accurate target location coordinates to pinpoint areas of interest and support precision tracking solutions for all sensors.

## FEATURES

### HD EXTENDED RANGE THERMAL IMAGING

720 InSb IR focal plane array detects and identifies targets at longer standoff and with higher resolution. 640 also available.

### CONTINUOUS ZOOM DAY/LOW-LIGHT CAMERA

HD sensors with 20x continuous zoom and 120x total magnification produce vivid colors and superior night visibility.

### EYESAFE LASER RANGEFINDER

Accurately determine range to target and geo-location for fire control calculations. Optional NIR and SWIR laser pointer and illuminator available.

### INTERNAL NAVIGATION SYSTEM

Embedded INS determines and disseminates accurate target location coordinates.

### TAILORED FOR MOBILE APPLICATIONS

Rugged and gyro-stabilized to provide crisp imagery even while on the move, TacFLIR 280-HD detects and assesses threats a full 360° area.

## SPECIFICATIONS

THERMAL IMAGER	
Sensor type	1280x720 InSb FPA (640 x 480 optional)
Wavelength	3-5 $\mu$ m
FOVs	Optical: 40°-2° continuous 4X E-Zoom: 0.5°
DAYLIGHT CAMERA	
Sensor type	1920x1080 CCD
FOVs	Optical: 54.4° to 1.5° 3X E-Zoom: 0.5°
LOW LIGHT CAMERA	
Sensor type	1280x720 sCMOS
FOVs	Optical: 52.1° to 1.4° 3X E-Zoom: 0.5°
SPOTTER SCOPE (OPTION)	
Sensor type	1920x1080 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	Max Range: 30 km Classification: Class 1 or Class 1M (10 Hz)
Illuminator (Option)	Power: 1 W or 2 W – NIR or SWIR Classification: Class 4
Pointer (Option)	Power: 150 mW Classification: Class 3b
SYSTEM PERFORMANCE	
System type	Gyro stabilized TFU w/ separate CEU
Az. coverage	360°
SYSTEM INTERFACES	
Digital video	SMPTE 292M/HDMI
Analog video	NTSC/PAL
Control	RS-232, RS-422
Data	RS-232, RS-422
ENVIRONMENTAL	
Standards	MIL-STD-810, MIL-STD-461
Operating temperature	-40° C to 55° C
POWER REQUIREMENTS	
Voltage	24VDC
Consumption 2	240 W Typical, 350 W Max
Anti-Ice	Additional 360 W

### DIMENSIONS & WEIGHT

TFU size	14"(d) x 16"(h) cylindrical volume
TFU weight	<55 lbs
CEU size	12.0 w x 12.0 d x 5.5 h
CEU weight	<19 lb

### OTHER OPTIONS & ACCESSORIES

Displays & Recorders, 3rd Party Video Processing



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