



COMPACT MULTI-SENSOR GYRO-STABILIZED SURVEILLANCE SYSTEM

FLIR UltraFORCE® 275-HD

Extremely low SWaP makes the UltraFORCE 275-HD the optimal choice for weight, power and footprint-constrained platforms. The system delivers multi-spectral HD imaging performance for airborne homeland security, combat, patrol, surveillance, reconnaissance, and search and rescue programs. Durable, long endurance design makes the UltraFORCE 275-HD the ideal choice for lightweight manned and unmanned airborne platforms. Built in Europe with no U.S.-sourced components, the UltraFORCE 275-HD is ITAR-free, increasing exportability and freedom of movement within Europe.

The UltraFORCE 275-HD delivers high-quality, real-time full motion video (FMV) while having the lowest weight in its 10" to 12" turret class. It incorporates high performance TV and IR imaging payloads, both with continuous zoom optics, to provide long-range identification and covert operation at high standoff ranges. Single LRU architecture simplifies installation, and integrated IMU and GPS provide accurate geo-referencing for peripheral systems.

FEATURES

SIGNIFICANT SWaP ADVANTAGES

Single LRU and lowest weight in its 10" to 12" turret class make it easy to install on weight, power, and footprint-constrained platforms, without compromising endurance.

ITAR-FREE FLEXIBILITY

Built in Europe with no U.S.-sourced components, the UltraFORCE family offers increased exportability.

CONTINUOUS ZOOM

Continuous zoom, high performance optics on all imaging sensors provide uninterrupted video of evidential quality and reduces operator workload to maintain target visibility during zoom.

EASA FORM 1 COMPLIANT

This certificate of airworthiness simplifies installation and certification, and eliminates the need for qualification when installed on approved aircraft mounts.

RICH METADATA OUTPUT

UltraFORCE 275-HD delivers full HD video with embedded metadata fully compliant to STANAG and MISB standards.

APPLICATIONS

COUNTER DRUG AND PEOPLE SMUGGLING

HOMELAND SECURITY

PATROL

SURVEILLANCE

RECONNAISSANCE

SEARCH & RESCUE

BORDER PROTECTION

SPECIFICATIONS

Thermal Imaging Performance	
Sensor Type	3rd gen 640 x 512 3-5 µm MCT focal plane array
Image Enhancements	Non Uniformity Correction, Bad Pixel Replacement, AGC (Automatic Gain Control), Histogram, Equalization, Digital Details Enhancement (Tunable)
FOV	Continuous zoom 28° to 1.83°
Ezoom	2x
Daylight Imaging Performance	
Sensor	High Definition CMOS
Resolution	1080x720 or 1920x1080
FOV	Continuous zoom 45° to 2.3°
Minimum Illumination	0.01 lux color; 0.006 lux monochrome
Gimbal Specifications	
LOS Pan range	360 degrees continuous
LOS Tilt range	+20 / -120 degrees
AZ/EL slew rate	Up to 60°/s
Stow	Magnetically held in stow position
Electronics Control Unit	
Hand Controller Unit	0.8 kg, 230 mm Height
Interfaces	
ARINC 429, RS232/422 and other interfaces to support navigation systems, moving maps, radars, searchlights, and GPS	
Outputs	
Video	HD-SDI 720p / 1080p
Power	
Power requirements	22-30 VDC < 150 W, 75 W typical
Overview	
Gimbal size	275 mm (D) x 378.5 mm (H) / Approx. 11 in (D) x 15 in (H)
Gimbal weight	16 kg / 35 lbs
Environmental	RTCA DO-160E
Options	
Auto-Tracker Laser Range Finder Laser Pointer (Covert) Eyesafe Visible Laser Pointer Laser Illuminator IMU & GPS Control Unit	



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