



COMPACT MULTI-SENSOR GYRO-STABILIZED SURVEILLANCE SYSTEM

UltraFORCE® 350-HD

With large gimbal-level performance and turret weight of only 28 kg, the UltraFORCE 350-HD's trusted multi-spectral HD imaging performance is optimized for airborne homeland security, combat, patrol, ALE, surveillance, reconnaissance, and search and rescue programs. This durable surveillance system, built to endure long missions, mounts on rotary-wing, fixed-wing, and unmanned airborne platforms. Built in Europe with no U.S.-sourced components, the UltraFORCE 350-HD is ITAR-free, increasing exportability and freedom of movement within Europe.

The UltraFORCE 350-HD delivers high-quality, real-time full motion video (FMV) from manned and unmanned airborne platforms. It provides long-range identification and covert operation at high standoff ranges. Flexible payload options offer high-value metadata from a MWIR thermal imager, HD color camera with 20x zoom, and multiple spotter and laser options. Full MISB/STANAG-compliant embedded metadata offers plug and play compatibility with ancillary systems via industry standard interfaces. Single LRU simplifies installation, and integrated IMU and GPS provide accurate geo-referencing for peripheral moving maps or other mission systems.

FEATURES

SIGNIFICANT SWAP ADVANTAGES

Single LRU, 14" turret, and carbon composite design increase mission endurance and mission success rates compared to other 15" or 16" class systems.

FLEXIBLE SENSOR PAYLOAD

640x512 thermal imaging and HD cameras with extended performance optics help provide positive scene analysis and safer standoff ranges.

MULTIPLE SPOTTER AND LASER OPTIONS

Covertly identify targets at longer detection ranges during daytime surveillance; low-light camera extends operation into dawn and dusk.

EASA FORM 1 COMPLIANT

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

RICH METADATA OUTPUT

UltraFORCE 350-HD delivers full HD video with embedded metadata fully compliant to STANAG and MISB standards.

APPLICATIONS

RECONNAISSANCE

SURVEILLANCE

MILITARY POLICE SECURITY

FORWARD OBSERVATION

FORCE PROTECTION

AIRBORNE LAW ENFORCEMENT

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	Wide: 17.3° to 13.6° Medium: 5° to 4° Narrow: 1.2° to 0.9°
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

Spotter Scope Option

Sensor Type	CMOS
FOV	25.4° to 0.79° continuous zoom
Sensitivity	1 Lux

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
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Interfaces

ARINC 429, RS232/422 and other interfaces to support navigation systems, moving maps, radars, searchlights, and GPS

Outputs

Video	HD-SDI 720p / 1080p
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Power

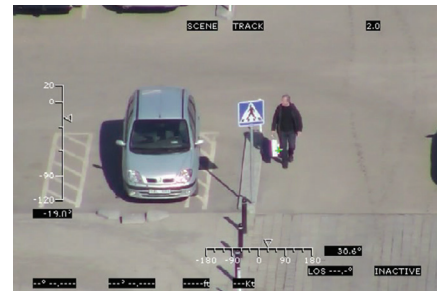
Power requirements	22-30 VDC < 170 W, 100 W typical
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Overview

Gimbal size	350 mm (D) x 485 mm (H)
Gimbal weight	\leq 30 kg
Environmental	RTCA DO-160E

Options

Auto-Tracker
Laser Range Finder
Laser Pointer (Covert)
Eyesafe Visible Laser Pointer
Laser Illuminator
IMU Control Unit



AMERICAS

FLIR Systems, Inc.
Corporate Headquarters
27700 SW Parkway Ave
Wilsonville, OR 97070
Office: +1 877.773.3547

FLIR Systems, Inc.
DC Headquarters
1201 S. Joyce Street
Suite C006
Arlington, VA 22202
Office: +1 703.682.3400

EUROPE

FLIR Systems
2 Kings Hill Avenue - Kings Hill
West Malling, Kent ME19 4AQ
United Kingdom
Office: +44 (0)1732 220 011
Fax: +44 (0)1732 843 707

FLIR Systems AB
Antennvägen 6,
PO Box 737
SE-187 66 Täby
Sweden
Office: +46 (0)8 753 25 00

MIDDLE EAST

FLIR Systems B.V. - Abu Dhabi
Wadi Al Fey St.
Building 60, Office # 302
New Ministries Exit / Khalifa Park Area
Abu Dhabi, U.A.E.
Office: +971 2 666 1561
e-Fax: +1 503 914 1591

FLIR Systems Saudi Arabia
Office 127, First Floor
Akaria Plaza Building, Olaya Street
Riyadh, 11481, Saudi Arabia
Office: +966 11 464 5323
Fax: +966 11 464 0438

ASIA

FLIR Systems Japan K.K.
Meguro Tokyu Bldg. 5F,
2-13-17
Kami-Osaki, Shinagawa-ku.
Tokyo, 141-0021, Japan
Office: +81-3-6721-6648

For More Information contact
surveillance_sales@flir.com

www.flir.com
NASDAQ: FLIR

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The World's Sixth Sense®