



UltraForce® 350-HD

ULTRAFORCE® 350-HD

Compact Electro-Optical Airborne Gimbal

FLIR's UltraForce® 350-HD Gimbal has all European content, single LRU for ease of installation and integration, digital HD output for all video channels, and IMU for precise geo-location. The large format 640 x 512 infrared camera with extended performance optics allows for positive scene analysis at safe stand-off ranges in all weather conditions and maximizes detection range during daytime surveillance missions. The low light function extends operation into dawn or dusk. Outstanding stability ensures stable imagery by compensating for aircraft movement and vibration, critical for long range imaging. The UltraForce 350-HD can be delivered with EASA Form 1 certification. Also equipped with Backlit and NVG compatible remote controller the 350-HD allows for 24/7 operation in the modern cockpit with integrated multi-mode auto-tracker to track moving or stationary targets.

APPLICATIONS

- Counter Drug
- Homeland Security
- Patrol
- Surveillance
- Reconnaissance
- Search & Rescue

KEY FEATURES

- All European system, single LRU HD system
- HD Color zoom camera & Color HD Spotter Option with zoom
- Laser options
- 4-axis active stabilization
- EASA Certified installations
- Optimized usability



Visible and Thermal images from the UltraForce 350-HD

Specifications

Thermal Imaging Performance	
Sensor Type	3rd gen 640 x 512 3-5 μm 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 CCD
FOV	60° to 2.2°
Spotter Scope Option	
Sensor Type	Color CCD
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
Interfaces	
ARINC 429, RS232/422 and other interfaces to support navigation systems, moving maps, radars, searchlights, and GPS	
Outputs	
Video	HD-SDI (720P)
Power	
Power requirements	22-30 VDC < 150 W
Overview	
Gimbal size	350 mm (D) x 485 mm (H)
Gimbal weight	28 kg
Environmental	RTCA DO-160E
Options	
Auto-Tracker	
Laser Range Finder	
Laser Pointer	
Laser Illuminator	
IMU Control Unit	

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