

Ultra8500™

COMPACT LONG RANGE AIRBORNE
MULTI-SENSOR SYSTEM



APPLICATIONS

COUNTER DRUG
HOMELAND SECURITY
PATROL
SURVEILLANCE
RECONNAISSANCE
SEARCH AND RESCUE

FEATURES

450 mm of optical IR zoom
High resolution, digital video processing
Combination color and low-light CCD camera
Continuous or 3-step matched zoom on all sensors
Auto tracker
Laser pointer
Simplified hand controller
Color on-screen graphics
Plug and play commonality
Proven reliability
It's all FLIR inside

BENEFITS

Provides greater range than other compact sensors in the same class, allowing aircraft to fly higher and see more
Optimizes thermal image contrast automatically based on scene dynamics, resulting in longer detection ranges
High resolution color imagery reveals details such as registration numbers and other color contrasts. Low-light mode provides hi-res capability during dawn or dusk operation
Maintain sight of the target or scene 100% of the time, even while zooming in or out
Ability to track either a target or scene enables hands-free system operation that maximizes mission effectiveness and reduces operator fatigue
Increase mission effectiveness by directing ground forces or other assets equipped with night vision devices
Ergonomic and NVIS-compatible control options are intuitive and rugged
Intuitive interface increases operator effectiveness and situational awareness
Leverages the world's largest STC'd install base, reducing cost and expediting aircraft integration/minimizing aircraft down time
Designed under the FLIR Systems "commercially developed —military qualified" (CDMQ) model, Ultra series systems are engineered to endure
FLIR controls the entire supply chain for the critical technology inside Ultra class gimbals, ensuring fast service and long-term support



Laser pointer used for covert target discrimination.



On-screen symbology designed for easy readability.



Sophisticated thermal imager allows day/night surveillance & tracking.



Low-light TV camera provides clear visible-light imagery in near total darkness.



Ultra8500™

OVERVIEW

System type	Gyro-stabilized multi-sensor
Gimbal size	9 dia x 13.5 h in. (22.9 dia x 34.3 h cm)
Gimbal weight (with maximized payload)	29 lbs (13 kg)

THERMAL IMAGING PERFORMANCE

Sensor type	320x240 InSb Focal Plane Array
Wavelength	3-5 μ m
FOVs	
Wide	Continuous zoom or preset 21.7° x 16.9°
Medium	Continuous zoom or preset to 8° x 6°
Narrow	Continuous zoom or preset 2.2° x 1.65°
Super narrow	With 1.8x Extender employed 1.2° x 0.9°

DAYLIGHT IMAGING PERFORMANCE

Sensor type	Daylight/low light high sensitivity CCD
Zoom settings	Matched to IR
Automatic features	Contrast, brightness

LASER POINTER OPTION

Type	NVG compatible - target pointing
Classification	Class 3b

GIMBAL SPECIFICATIONS

Az range of travel	360° continuous
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Slew rate	up to 65° /sec

ELECTRONICS CONTROL UNIT

Dimensions	10.6 x 9.9 x 5.9 in. (27 x 25 x 15 cm)
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OUTPUTS

Analog or digital video,	RS-170, NTSC, PAL
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POWER

Power requirements	19V DC to 32V DC max surge 15 amps
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INCLUDED ACCESSORIES IN STANDARD PACKAGE

Stabilized Gimbal Assembly, Electronics Control Unit, simplified hand control unit, standard cable kit

OPTIONS

Autotracker, nav interfaces, quick disconnect mounts, Nightsun interface, flat panel displays, moving map interfaces, Laser Illuminator, Laptop Control Unit, 1.8X IR extender

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