



Ultra 9HD

Designed for the ever-expanding airborne law enforcement mission, FLIR's Ultra 9HD is the most advanced EO/IR imaging system in its class. Ultra 9HD's imaging suite includes FLIR's large-format 640x480 InSb thermal imager, a High-Definition daylight camera, and a lowlight Electron Multiplied CCD imager. With the rugged survivability born of a military heritage, Ultra 9HD is the toughest, most capable, 9" airborne imaging system ever designed and built specifically for law enforcement aircraft.

NEW!

Ultra 9HD™

Features

- High Definition color camera
- Large format IR and lowlight imaging
- Embedded IMU/GPS option
- Laser Pointer or Illuminator option
- Six payload design
- CEU-less design
- Matched narrow fields of view
- Compact, lightweight
- Digital and analog video
- Improved interface capabilities
- Military qualified and field proven

Benefits

- High Definition 1920x1080 color provides the highest level of detail and crisp, clear imagery.
- 640 x 480 Infrared and matched lowlight Electron Multiplied CCD cameras deliver crisp, detailed images in all lighting conditions.
- Embedded, self-contained capability that provides geo-location and geo-pointing for improved tactical coordination and ease of system control.
- Laser Pointer covertly pinpoints targets for observers using night vision equipment; Laser Illuminator maximizes sensor performance in extreme lowlight conditions.
- The most payload flexibility in its class: Large format infrared, Hi-Def TV, lowlight Electron Multiplied CCD-TV, Laser Rangefinder, Laser Pointer, Laser Illuminator, embedded IMU.
- Eliminates the clutter and weight of electronic "black boxes," as well as the weight of long cable runs.
- Matched NFOV in all sensors for optimal situational awareness.
- Can be installed on a wide range of platforms with low profile and low drag.
- Ultra 9HD provides DVI or SMPTE digital video for all channels, ensuring the highest image fidelity and resolution. Analog video outputs are also provided.
- Ultra 9HD supports RS-422, ARINC 429, and MIL-STD 1553B protocols for interfacing with GPS devices, Moving Maps, SLASS, and Radars.
- Ultra 9HD's Talon pedigree provides proven reliability in extreme environments, with Mil-Spec environmental design.



The Global Leader in Thermal Imaging



Ultra 9HD System Specifications

Thermal Imager

Image Resolution 3-5 μ ; 640x480 InSb
FOVs 21.7°(h) to 1.2°(h)
Zoom Ratio 18X

Daylight

Camera 1920x1080 Hi-Definition Camera
FOVs 12°(h) to 1.2°(h)
Zoom Ratio 10X

Electron Multiplication Extreme Low Light Camera

FOVs 12°(h) to 1.2°(h)
Zoom Ratio 10X

Laser Pointer (option)

Type NVG Compatible
Classification Class IIIb

Laser Rangefinder (option)

Max. Range 20 km
Classification Class I

Laser Illuminator (option)

Power 2W
Classification Class IV

IMU (option)

Embedded With GPS and Nav Solution

Autotracker (Option)

Functionality Multi-mode

System Parameters

Az. & El. Coverage 360° Az. & El.
Video Digital (DVI or SMPTE-292M) and Analog (NTSC/PAL)
System Interfaces RS-422, ARINC 429, MIL-STD 1553B, GPS, Moving Map, SLASS, and Radar
Components TSU and JCU only; NO CEU REQUIRED

Environmental

Standards MIL-STDs 461E & 810F
Sealed Turret Yes
Operating Temperature -40° to 55°C

Power Requirements

18-32 VDC; 15 Amps

Turret Size & Weight

9" dia x 15.5" h; ~42 lb



The Global Leader in Thermal Imaging

SANTA BARBARA

CVS World Headquarters

FLIR Systems, Inc.
70 Castilian Drive.
Goleta, CA 93117
USA
PH: +1 877.773.3547
FX: +1 805.685.2711

PORTLAND

Corporate Headquarters

FLIR Systems, Inc.
27700 SW Parkway Avenue
Wilsonville, OR 97070
USA
PH: +1 877.773.3547
FX: +1 503.498.3153

BOSTON

Manufacturing Facility

FLIR Systems Boston, Inc.
25 Esquire Road
North Billerica, MA 01862
USA
PH: +1 877.773.3547
PH: +1 978.901.8000
FX: +1 978.901.8885