

Ultra7500-B®

FOR RAID AND S&S BATTALIONS



APPLICATIONS

COUNTER DRUG
HOMELAND SECURITY
PATROL
SURVEILLANCE
RECONNAISSANCE
SEARCH AND RESCUE

FEATURES

450 mm of optical IR zoom
High resolution, digital video processing (HRVP)
Form-fit-function re-placement for Ultra 7500
Nearly identical operation
Powerful 35x daylight, low-light camera

FLIR MicroStabilization

Laser pointer option

Simplified hand controller

Proven reliability

It's all FLIR inside

BENEFITS

Delivers more range than any other compact sensor allowing you to fly higher and see more

Delivers perfectly contrasted thermal imagery regardless of scene dynamics

The Ultra 7500-B is a form-fit-function replacement for the RAID Ultra 7500 multi-sensor thermal imaging system. The -B variant uses the same mounts, has the same physical envelope and the same power requirements as its earlier-generation counterpart

The Ultra 7500-B is a spiral upgrade of RAID's Ultra 7500. The -B variant requires minimal changes to existing training curricula, as its upgrades encompass improved performance, leaving methods of operation largely intact

Perfectly matched in zoom to the thermal imager

Precision dynamic balancing, and proprietary electro-mechanical designs provide ultra-stable imagery, allowing operators to take full advantage of the -B variant's high magnification

Increase mission effectiveness when directing ground forces equipped with night vision devices

Ergonomic and NVIS-compatible control options are intuitive and rugged

Designed under the FLIR Systems "commercially developed—military quality" (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.



Ultra7500-B®

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 lb (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 IIIb

GIMBAL SPECIFICATIONS

Az range of travel	360° continuous
EI range of travel	360° continuous
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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