

RECON® V ULTRA LITE

ULTRA LIGHTWEIGHT MULTI-SPECTRAL IMAGER

APPLICATIONS

- RECONNAISSANCE
- SURVEILLANCE
- MILITARY POLICE SECURITY
- FORWARD OBSERVATION
- FORCE PROTECTION



Fully operational at less than 1.6 kilograms, the breakthrough Recon V Ultra Lite provides mid-range target detection, recognition, recording and geo-location with an HD color camera and digitally zoomed multiple FOV thermal channels. Combining a highly accurate laser range finder, GPS, digital magnetic compass and intuitive user interface, targets can be quickly located 24/7.

Essential to expeditionary ground forces, Recon V Ultra Lite helps to quickly determine intent or IFF for unknown targets. With day and night capabilities, a quick-shot LRF instantly generates target geo-location data to accompany imagery that can be shared with ground forces through Bluetooth, WiFi or hardwired USB connections to peripheral devices. While operators provide mission-critical situational awareness data they remain safe by always being connected to their extended team.

FEATURES

BEST-IN-CLASS IMAGING

Combining the latest 12-micron thermal imaging sensor with industry-leading processing and an HD color display, Recon V Ultra Lite provides outstanding image quality for positive target identification in daylight and thermal channels.

RAPID TARGET CLASSIFICATION

7.2x magnification, digital magnetic compass, GPS, and laser rangefinder provide accurate range-to-target and geo-location.

DESIGNED FOR INDIVIDUAL FIELD OPERATORS

Light and easy to use, Recon V Ultra Lite minimizes operator fatigue and is rugged enough to survive the most demanding field missions.

ACUTE SITUATIONAL AWARENESS

Video, still imagery and data can be recorded or output via Bluetooth, WiFi or USB hardwired connections to supporting field elements for real-time situational awareness.

EASY, INTUITIVE OPERATION

An intuitive interface bypasses overly complex dropdowns in favor of a quick-shot LRF and pushbutton image and video capture, reducing training time and improving usability in high-stress field operations.

Power:

- Power requirements: 6 VDC (9 V to 32 VDC external)
- Battery type: 4 AA Lithium L91
- Power saving mode: Auto shut off, user selectable time
- Extended Run Time: >48 hours on B/A-5590 external battery

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SPECIFICATIONS

Thermal Imaging Channel:

- Sensor type: 640 x 512 format, LWIR 8-12µm
- Super Wide FOV: 12° h x 7° v
- Wide FOV: 6° h x 3.3° v
- Narrow FOV: 4° h x 2.3° v
- Optical Focal Length: 36mm
- Frame Rate: 30 Hz
- Automatic features: AGC, Digital Detail Enhancement (DDE)

Environmental:

- Military Standards: MIL-STD-810G
- Weight: 1.6kg including batteries
- Mounting: Tripod mount 1/4-20 base
- Dimensions: 215 x 171 x 84mm

High Definition Color Channel:

- Sensor type: High definition color CMOS
- Pixel format : 5 megapixels (2592 x 1944 resolution)
- Wide FOV: 6°h x 3.3°v
- Narrow FOV: 3° h x 1.7° v
- Optical Focal Length: 35mm
- Frame Rate: 30 Hz
- Automatic features: AGC, white balance

System Features:

- Laser Rangefinder (LRF): 1.54 µm, >10 km range, eyesafe
- Display: High definition color OLED, 1280 x 720p
- Image presentation: Monochrome, color, 16:9 aspect ratio
- Diopter adjustment: +/- 4 diopters, Monocular
- Image controls: Polarity, color palettes, DDE, AGC, reticle select
- Camera controls : Sensor select, FOV, LRF fire, NUC, BIT

System Configuration Options:

- Laser pointer: 850nm, .6mW training mode/ 30mW maximum in tactical mode
- Global Satellite Nav System (GNSS): Navstar GPS, Galileo
- Digital Magnetic Compass: 0.6° (RMS) calibrated accuracy
- Video Output: Wi-Fi, USB 3.0
- Geo-Location: Auto generated with LRF fire
- Image and Video Storage: 1000 jpeg images, up to 2 hours video storage
- USB Interfaces: Image and video upload, video
- Cables: USB 2.0, USB 3.0, B/A-5590
- Wireless connectivity: Wi-Fi, Bluetooth, NFC
- Remote Control: Wi-Fi

System Accessories:

- Soft carry case: Lightweight and padded with carry strap
- AC power adapter: 110 VAC/220 VAC power supply (optional)
- Batteries: 8 each, AA Lithium L91
- Lens cleaning kit: Cleaning kit in nylon pouch
- Manual: Operators manual and quick reference card

