

# 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.

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

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
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


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