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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