Trijicon UTB x-LRF

UNIVERSAL THERMAL BINOCULAR—LASER RANGEFINDER

HIGH-PERFORMANCE RESOLUTION AND TARGETING UP TO 2,200 METERS AWAY.*

The Trijicon® UTB™x-LRF is a small, uncooled, thermal binocular that can range and pinpoint targets up to 2,200 meters away—day or night. The system supports a range of applications with a visible and infrared (IR) laser pointer and multiple lens configurations.

LONG-RANGE TARGET DETECTION

640 resolution thermal image sensor for detection ranges of up to 2,200 meters with the standard 75mm lens, and 2,660 meters with the 120mm lens.

VERSATILE LENS CONFIGURATIONS

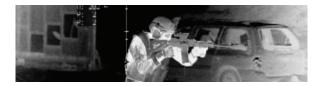
Multiple lens configurations allow variability in detection range and field of view to cater to specific needs.

USER-FRIENDLY

Intuitive menu system and tripod mountable design.



*With standard 75mm lens



APPLICATIONS

- Detection, location, and ranging of objects without visible light
- Hot spot and disturbed surface detection
- Easily spot objects in foliage or under vehicles



Trijicon® UTB™x-LRF Product Specifications:

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WEIGHT AND DIMENSIONS	Color	Black	
	Weight (without batteries)	48.7 oz (1381g)	
	Length	8.1 in. (206mm) without lens cover or eyecups	
	Width	5.5 in. (140mm)	
	Height	2.9 in. (74mm)	
POWER	Power source	(4) L91 (FR6) lithium batteries or USB outlet	
	Battery operating life @25°C	5 hours (L91)	
ENVIRONMENT	Operating temp	-40°F (-40°C) to 140°F (60°C)	
	Storage temp	-40°F (-40°C) to 160°F (71 °C)	
	Immersion	33 ft.	
	Climatic zones	Hot, basic	
	Optical focus	Manual	
	Diopter adjust	Manual	
	Digital zoom	2X	
	Magnification		
	Standard	3.7X	
	Long range	6.6X	
	Field of view		
	75mm lens (standard)	10.6° diagonal (8.5° horizontal x 6.3° vertical)	
	120mm lens (long range)	6.5° diagonal (5° horizontal x 3.9° vertical)	
	Minimum focus distance	5m	
	Detection range: 80% positive, 60Hz, 0.75m2 size target (NATO Standard)		
IMAGING CHARACTERISTICS	75mm lens (standard)	2200m	
	120mm lens (long range)	2660m	
	IR camera		
	Sensor	Uncooled Vox microbolometer	
	Wavelength	8-12 µm	
	Pixel pitch	17 μm	
	Pixel format	640 x 480 array	
	Refresh rate	30/60Hz	
	NEdT	<50mK@F/1	
	Display		
	Color	Monochrome	
	Size	640 x 480	
	Eye relief distance	20mm	
	Diopter adjustment	+/- 1.75 diopter	
	Light guard	Eyecups	
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GPS	Position accuracy	2.5m
COMPASS	Digital magnetic compass	Yes
IMAGE STORAGE	Capability	100 snapshots
	Image format	8-bit uncompressed raw binary file
TESTING	Laser safety	MIL-STD-1425A
LASER RANGE FINDER	Туре	Diode laser
	Range	Typical: 2100m/max: 5200m
	Divergence	1.0 mrad x 1.2 mrad
	Measuring accuracy	<1m
	Measuring rate	1Hz
	Target discrimination	Typical: 25m
	Multiple target detection	Yes
	Wavelength	1.55 µm
	Classification	Eyesafe class 1
POINTERS	IR Pointer Dual Setting]
	Class	1/3B
	Power level	0.7mW/30mW
	Beam divergence	0.5 mrad @1/e
	Wavelength	840-860nm
	NOHD (unaided)	10m/86m
	NOHD (5cm unaided)	58m/512m
	NOHD (12cm unaided)	139m/1227m
	Diffuse NOHD	0m
	OD (unaided)	None/1.7
	OD (aided)	N/A
	NSHD	0m/3m



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