

# 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:

<b>WEIGHT AND DIMENSIONS</b>	Color	Black
	Weight (without batteries)	48.7 oz (1381g)
	Length	8.1 in. (206mm) without lens cover or eyecups
	Width	5.5 in. (140mm)
<b>POWER</b>	Height	2.9 in. (74mm)
	Power source	(4) L91 (FR6) lithium batteries or USB outlet
<b>ENVIRONMENT</b>	Battery operating life @25°C	5 hours (L91)
	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.
<b>IMAGING CHARACTERISTICS</b>	Climatic zones	Hot, basic
	Optical focus	Manual
	Diopter adjust	Manual
	Digital zoom	2X
	<b>Magnification</b>	
	Standard	3.7X
	Long range	6.6X
	<b>Field of view</b>	
	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
	<b>Detection range: 80% positive, 60Hz, 0.75m2 size target (NATO Standard)</b>	
	75mm lens (standard)	2200m
	120mm lens (long range)	2660m
	<b>IR camera</b>	
	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	
<b>Display</b>		
Color	Monochrome	
Size	640 x 480	
Eye relief distance	20mm	
Diopter adjustment	+/- 1.75 diopter	
Light guard	Eyecups	

<b>GPS</b>	Position accuracy	2.5m
<b>COMPASS</b>	Digital magnetic compass	Yes
<b>IMAGE STORAGE</b>	Capability	100 snapshots
	Image format	8-bit uncompressed raw binary file
<b>TESTING</b>	Laser safety	MIL-STD-1425A
<b>LASER RANGE FINDER</b>	Type	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
<b>POINTERS</b>	Wavelength	1.55 µm
	Classification	Eyesafe class 1
	<b>IR Pointer Dual Setting</b>	
	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	



© 2020 Trijicon, Inc. | P.O. Box 930059 | 49385 Shafer Avenue | Wixom, Michigan | 48393-0059 USA  
703-445-1600 | info@trijicon.com | www.TrijiconOASYS.com | PML4082 Rev(1) 0420

**EXPORT WARNING**

Export of the commodities described herein is strictly prohibited without a valid export license issued by the U.S. Department of State, Directorate of Defense Trade Controls as proscribed in the International Traffic in Arms Regulations (ITAR), Title 22 Code of Federal Regulation, Parts 120-130.