

# TRAIL LRF

## Thermal imaging sight with built-in laser rangefinder



TRAIL LRF is a new generation of thermal imaging sights from PULSAR with built-in precise laser rangefinder, video recorder, Wi-Fi module and long-life quick-change battery. Based on a quality thermal imaging sensors with resolution 640x480 and 384x288 with 17  $\mu\text{m}$  pixel pitch TRAIL LRF is able to produce a highly detailed image at 50 frames per second in complete darkness.

### Features

- Built-in precise laser rangefinder
- High resolution thermal imaging sensor
- Long detection distance 1800 m (2000 yds)
- Smooth and incremental digital zoom
- High caliber recoil resistance 12 gauge, 9.3x64, .375 H&H
- High refresh rate 50 Hz
- Zeroing profiles memorization
- Frost resistant AMOLED screen
- Built-in video recorder
- Built-in Wi-Fi module (Stream Vision app)
- Quick-change long-life rechargeable battery packs
- Fully waterproof IPX7



### Technical specifications

	Trail LRF XQ28	Trail LRF XQ38	Trail LRF XQ50	Trail LRF XP38	Trail LRF XP50
Type of microbolometer	Uncooled	Uncooled	Uncooled	Uncooled	Uncooled
Frame Rate, Hz	50	50	50	50	50
Microbolometer resolution, pixels	384x288	384x288	384x288	640x480	640x480
Pixel Pitch, $\mu\text{m}$	17	17	17	17	17
Display type	AMOLED	AMOLED	AMOLED	AMOLED	AMOLED
Display Resolution, pix.	640x480	640x480	640x480	640x480	640x480
Magnification, x	1,5-6	2,1 - 8,4	2,7 - 10,8	1,2 - 9,6	1,6-12,8
Digital zoom, x	2/3/4	2/3/4	2/3/4	2/4/8	2/4/8
Lens focus, mm	28	38	50	38	50
Relative aperture, D/f'	1:1,2	1:1,2	1:1,2	1:1,2	1:1,2
Field of View,°, H/V	13,3/10,0 (4X Zoom)	9,8/7,4 (4X Zoom)	7,5/5,6 (4X Zoom)	16,3/12,3 (8X Zoom)	12,4/9,3 (8X Zoom)
Minimal focusing distance, m	5	5	5	5	5

	Trail LRF XQ28	Trail LRF XQ38	Trail LRF XQ50	Trail LRF XP38	Trail LRF XP50
<b>Diopter adjustment, dptr.</b>	+/-4	+/-4	+/-4	+/-4	+/-4
<b>Eye relief, mm</b>	50	50	50	50	50
<b>Detection range, m (object H/W=1,7*0,5m)</b>	800	1350	1800	1350	1800
<b>Built-in video recorder</b>	yes	yes	yes	yes	yes
<b>Built-in memory size, Gb</b>	8	8	8	8	8
<b>Built-in Wi-Fi module</b>	yes	yes	yes	yes	yes
<b>Stream Vision application support</b>	yes	yes	yes	yes	yes
<b>Micro USB Socket</b>	Power/Data	Power/Data	Power/Data	Power/Data	Power/Data
<b>Built-in rangefinder</b>	yes	yes	yes	yes	yes
<b>Laser wavelength, nm</b>	905	905	905	905	905
<b>Measurement range, m</b>	1000	1000	1000	1000	1000
<b>Rangefinder accuracy, m</b>	-/+1	-/+1	-/+1	-/+1	-/+1
<b>Battery type</b>	Pulsar B-Pack (Li-ion)	Pulsar B-Pack (Li-ion)	Pulsar B-Pack (Li-ion)	Pulsar B-Pack (Li-ion)	Pulsar B-Pack (Li-ion)
<b>Battery life, hours</b>	8	8	8	8	8
<b>External Power Supply</b>	5V - Micro USB	5V - Micro USB	5V - Micro USB	5V - Micro USB	5V - Micro USB
<b>Reticle Type</b>	Electronic	Electronic	Electronic	Electronic	Electronic
<b>Windage &amp; Elevation, 1 click (H/V), mm@100m</b>	36/36	27/27	20/20	45/45	34/34
<b>Reticle adjustment range, H/V, mm at 100m</b>	7200/7200	5400/5400	4000/4000	9000/9000	6800/6800
<b>Number of reticle profiles in memory</b>	3 (each for 5 coordinates)	3 (each for 5 coordinates)	3 (each for 5 coordinates)	3 (each for 5 coordinates)	3 (each for 5 coordinates)
<b>Operating temp, °C</b>	-25/+50	-25/+50	-25/+50	-25/+50	-25/+50
<b>Waterproof</b>	IPX7	IPX7	IPX7	IPX7	IPX7
<b>Calibration (nonuniformity correction)</b>	manual, auto, semi-auto	manual, auto, semi-auto	manual, auto, semi-auto	manual, auto, semi-auto	manual, auto, semi-auto
<b>Shockresistance on rifled weapons, J</b>	6000	6000	6000	6000	6000
<b>Shockresistance on the smooth-bore (calibres)</b>	12 cal. ready	12 cal. ready	12 cal. ready	12 cal. ready	12 cal. ready
<b>Remote control</b>	yes (wireless)	yes (wireless)	yes (wireless)	yes (wireless)	yes (wireless)
<b>Length, mm</b>	287	285	292	285	292
<b>Width, mm</b>	102	102	102	102	102
<b>Height, mm</b>	67	76	76	76	76
<b>Weight (without batteries and mount), kg</b>	0,63	0,67	0,71	0,67	0,71