

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