



# Trijicon IR-PATROL<sup>®</sup>

Thermal Monocular



Whether your mission is searching for a suspect or securing your position, the Trijicon IR-PATROL<sup>®</sup> is the ideal multi-purpose thermal imaging monocular. It's compact, lightweight and rugged; offering some of the most advanced performance options on the market for a clear, sharp image. Choose from handheld, helmet-mounted or rifle-mounted IR-PATROL systems.

## > Superior Image Quality

- 640x480 resolution - 4 times as many pixels as competing 320 systems
- 12 micron pixel pitch - smaller footprint than competing 17 micron systems
- 60 Hz Frame rate - improved clarity for moving images

## > Intuitive Controls

- Streamlined thumbstick allows quick navigation of system menu

## > Rugged, Reliable, American Made

- Designed, constructed and tested to MIL-STD-810G
- Made in the USA

## — The Science of Brilliant<sup>®</sup> —

At Trijicon, we are bound by a commitment to industry-leading research, design, and testing to seek innovative aiming solutions that constantly redefine "brilliant." That's why Trijicon products are subjected to the below testing methods.



Alaska-to-Africa Tested | Solid Zero Tested | Drop Tested  
Vibration Tested | Immersion Tested

Visit [Trijicon.com/Science](https://www.trijicon.com/Science) to learn more.

# Specifications



| System                 | LE100  | LE100C   | M250XR   | M250   |
|------------------------|--|--|--|--|
| Application            | Handheld / Tripod Mounted                          | Handheld / Tripod Mounted                          | Handheld / Tripod Mounted                          | Handheld / Helmet Mounted                          |
| Sensor Resolution      | 640x480  | 640x480  | 640x480  | 640x480  |
| Sensor Micron          | 12 µm  | 12 µm  | 12 µm  | 12 µm  |
| Sensor Type            | VOx Vanadium Oxide                                 | VOx Vanadium Oxide                                 | VOx Vanadium Oxide                                 | VOx Vanadium Oxide                                 |
| Frame Rate             | 30 Hz  | 30 Hz  | 60 Hz  | 60 Hz  |
| Display Type           | Digital OLED                                       | Digital OLED                                       | Digital OLED                                       | Digital OLED                                       |
| Thermal Sensitivity    | < 50 mK  | < 50 mK  | < 50 mK  | < 50 mK  |
| Spectral Response      | 8-12 MICRONS                                       | 8-12 MICRONS                                       | 8-12 MICRONS                                       | 8-12 MICRONS                                       |
| Field of View          | 22°  | 22°  | 7°   | 22°  |
| Eye Eelief             | 27mm   | 27mm   | 27mm   | 27mm   |
| Diopter                | -6 /+2   | -6 /+2   | -6 /+2   | -6 /+2   |
| Magnification / E-zoom | 1x Optical / 8x Digital                            | 1x Optical / 8x Digital                            | 4.5x Optical / 36x Digital                         | 1x Optical / 8x Digital                            |
| Objective Lens         | 19mm f/1.2   | 19mm f/1.2   | 60mm f/1.25  | 19mm f/1.2   |
| Battery Type           | CR123 Lithium                                      | CR123 Lithium                                      | CR123 Lithium                                      | CR123 Lithium                                      |
| Battery Life           | Approx. 2 hours / battery                          | Approx. 2 hours / battery                          | Approx. 2 hours / battery                          | Approx. 2 hours / battery                          |
| Environmental          | -40°C to +55°C Operating<br>-45°C to +75°C Storage | -40°C to +55°C Operating<br>-45°C to +75°C Storage | -40°C to +55°C Operating<br>-45°C to +75°C Storage | -40°C to +55°C Operating<br>-45°C to +75°C Storage |
| Weight                 | 16 oz. / 454g                                      | 16 oz. / 454g                                      | 27 oz. / 755g                                      | 16 oz. / 454g                                      |
| Dimensions (LxHxW)     | 5.95 in. x 2.0 in. x 2.95 in.                      | 5.95 in. x 2.0 in. x 2.95 in.                      | 8.0 in. x 3.3 in. x 3.0 in.                        | 5.95 in. x 2.0 in. x 2.95 in.                      |
| User Interface         | Thumbstick   | Thumbstick   | Thumbstick   | Thumbstick   |
| Mounting Kit           | ¼-20 Interface                                     | ¼-20 Interface                                     | ¼-20 Interface                                     | Wilcox® Shoe Interface                             |
| Download Cable         |  | ✓  | ✓  |  |
| Shoe Interface         |  |  |  | ✓  |
| Polarity / E-zoom      | ✓  | ✓  | ✓  | ✓  |
| Edge Detect            |  |  | ✓  | ✓  |
| Image Capture          |  | ✓  | ✓  | ✓  |
| Video Out              |  |  | ✓  | ✓  |
| Reticle Feature        |  |  |  |  |
| Configuration Level    |  |  | ✓  | ✓  |



| M250K  | M300   | M300K  | M300TK  |
|--|--|--|---|
| Handheld / Helmet Mounted                          | Handheld / Helmet Mounted / Rifle                  | Handheld / Helmet Mounted / Rifle                          | Handheld / Helmet Mounted / Rifle   |
| 640x480  | 640x480  | 640x480  | 640x480   |
| 12 µm  | 12 µm  | 12 µm  | 12 µm   |
| VOx Vanadium Oxide                                 | VOx Vanadium Oxide                                 | VOx Vanadium Oxide   | VOx Vanadium Oxide  |
| 60 Hz  | 60 Hz  | 60 Hz  | 60 Hz   |
| Digital OLED                                       | Digital OLED                                       | Digital OLED   | Digital OLED  |
| < 50 mK  | < 50 mK  | < 50 mK  | < 50 mK   |
| 8-12 MICRONS                                       | 8-12 MICRONS                                       | 8-12 MICRONS   | 8-12 MICRONS  |
| 22°  | 22°  | 22°  | 22°   |
| 27mm   | 27mm   | 27mm   | 27mm  |
| -6 /+2   | -6 /+2   | -6 /+2   | -6 /+2  |
| 1x Optical / 8x Digital                            | 1x Optical / 8x Digital                            | 1x Optical / 8x Digital                                    | 1x Optical / 8x Digital   |
| 19mm f/1.2   | 19mm f/1.2   | 19mm f/1.2   | 19mm f/1.2  |
| CR123 Lithium                                      | CR123 Lithium                                      | CR123 Lithium  | CR123 Lithium   |
| Approx. 2 hours / battery                          | Approx. 2 hours / battery                          | Approx. 2 hours / battery                                  | Approx. 2 hours / battery   |
| -40°C to +55°C Operating<br>-45°C to +75°C Storage | -40°C to +55°C Operating<br>-45°C to +75°C Storage | -40°C to +55°C Operating<br>-45°C to +75°C Storage         | -40°C to +55°C Operating<br>-45°C to +75°C Storage                                    |
| 16 oz. / 454g                                      | 16 oz. / 454g                                      | 16 oz. / 454g  | 16 oz. / 454g   |
| 5.95 in. x 2.0 in. x 2.95 in.                      | 5.95 in. x 2.0 in. x 2.95 in.                      | 5.95 in. x 2.0 in. x 2.95 in.                              | 5.95 in. x 2.0 in. x 2.95 in.   |
| Thumbstick   | Thumbstick   | Thumbstick   | Thumbstick  |
| Wilcox® Shoe Interface<br>Wilcox® Bridge Assembly  | Wilcox® Shoe Interface                             | Wilcox® Shoe Interface<br>Wilcox® Flip to Side Rifle Mount | Wilcox® Shoe Interface<br>Wilcox® Bridge Assembly<br>Wilcox® Flip to Side Rifle Mount |
| ✓  |  | ✓  | ✓   |
| ✓  | ✓  | ✓  | ✓   |
| ✓  | ✓  | ✓  | ✓   |
| ✓  | ✓  | ✓  | ✓   |
| ✓  | ✓  | ✓  | ✓   |
| ✓  | ✓  | ✓  | ✓   |
|  | ✓  | ✓  | ✓   |
| ✓  | ✓  | ✓  | ✓   |

# Features and Benefits

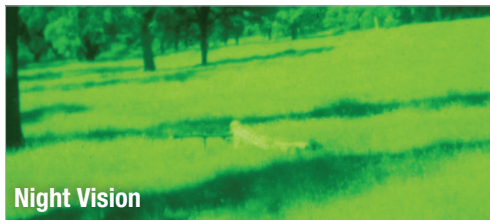
- A Outstanding Image Quality**  
The state-of-the-art 640x480, 12 micron, 60 Hz thermal core provides exceptional clarity in complete darkness
- B Easy-to-Use**  
The miniature thumbstick, simple menu system, and user configurable quick select menu enable quick zeroing and intuitive control
- C Built to Endure**  
The machined 6061 aluminum housing was designed and tested to MIL-STD-810G for years of worry-free use in the field

- D Manual Focus Knob**  
Allows easy adjustments for optimal image definition, near and far
- E Versatile Mounting Interface**  
Allows user to use as a handheld, helmet-mounted or rifle-mounted thermal solution.

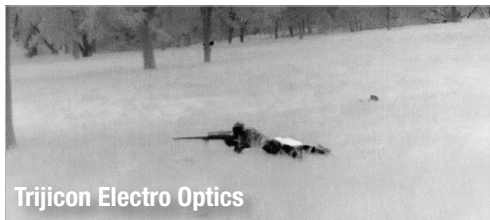


# Image Capabilities

## Traditional Night Vision vs. Trijicon Electro Optics Thermal Technology



Night Vision



Trijicon Electro Optics

## 12µm vs. 17µm Core Technology



17 micron



12 micron  
Trijicon

## 640x480 vs. 320x240 Resolution



320x240



640x480  
Trijicon



Trijicon Electro Optics  
12µm, 640x480 @ 60Hz



Electro Optics Division

[Trijicon.com/PATROL](http://Trijicon.com/PATROL)

©2021 Trijicon, Inc. | Wixom, Michigan USA | Phone: 1-800-338-0563 | [info@trijicon.com](mailto:info@trijicon.com)  
**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  
Specifications subject to change without notice. | PML4062-1 Rev(3) 1221