Trijicon®
Electro Optics Division

Trijicon IR-PATROL®

Thermal Monocular



Whether your mission is searching for a suspect or securing your position, the Trijicon IR-PATROL® 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®

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 to learn more.






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
Base Optical Magnification	1x	1x	3x	1x
Max Digital Zoom	8x	8x	8x	8x
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 -45°C to +75°C Storage	-40°C to +55°C Operating -45°C to +75°C Storage	-40°C to +55°C Operating -45°C to +75°C Storage	-40°C to +55°C Operating -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			✓	✓

Specifications









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	1x	1x	1x
8x	8x	8x	8x
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 -45°C to +75°C Storage	-40°C to +55°C Operating -45°C to +75°C Storage	-40°C to +55°C Operating -45°C to +75°C Storage	-40°C to +55°C Operating -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 Wilcox® Bridge Assembly	Wilcox® Shoe Interface	Wilcox® Shoe Interface Wilcox® Flip to Side Rifle Mount	Wilcox® Shoe Interface Wilcox® Bridge Assembly 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

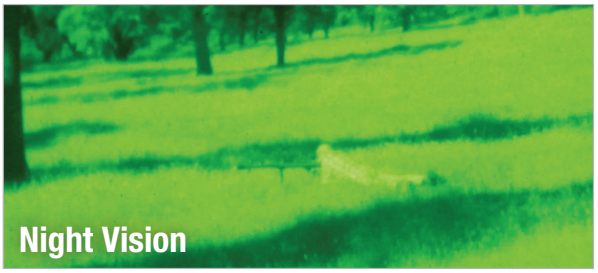
E **Versatile Mounting Inferface**
Allows user to use as a handheld, helmet-mounted or rifle-mounted thermal solution.

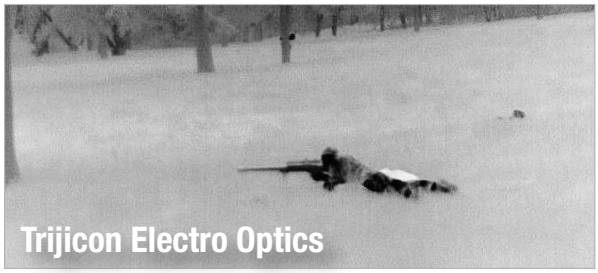


Trijicon IR-PATROL®

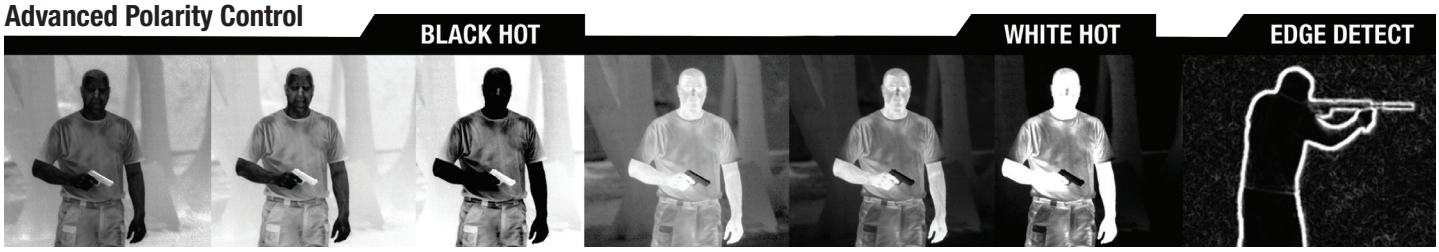
Image Capabilities

Traditional Night Vision vs. Trijicon Electro Optics Thermal Technology





Advanced Polarity Control



Trijicon.com/PATROL

Trijicon®
Electro Optics Division

©2022 Trijicon, Inc. | Wixom, Michigan USA | Phone: 1-800-338-0563 | 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 Interna tional Traffic in Arms Regulations (ITAR), Title 22 Code of Federal Regulation, Parts 120–130
Specifications subject to change without notice. | PML4062-1 Rev(4) 0322