



IR PATROL™

640x480 THERMAL MONOCULAR



M250 MODEL

IR PATROL™

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HAND-HELD / HELMET MOUNTABLE / WEAPON MOUNTABLE

The IR PATROL is the world's best priced, 640x480 military grade monocular that combines a high quality BAE thermal core with advanced miniaturized electronics in a rugged, user friendly housing to bring users a next level thermal detection device. Military, First Responders, and Sportsmen all have a need to see in the dark, but with limited budgets, quality products are typically out of reach. The new IR Patrol thermal monocular solves this problem, as IR Defense has developed one of the most affordable, high resolution, thermal night vision devices on the market.

Performance, Durability and Affordability - Whether you are protecting our borders, searching for a lost child, or eradicating groups of feral hogs, operators need high resolution thermal images in a small robust device. The IR Patrol thermal monocular is a game changer for the night vision industry. For the first time ever, night vision users can enjoy thermal high definition imagery under five thousand dollars (\$5,000.00 USD).

The IR Patrol features an advanced user interface with a military grade thumb stick that is the perfect size - no more searching for buttons in the dark. With the monocular's ergonomic design, users can take advantage of all the functionality, including the menu system that is engineered to be intuitive and efficient to operate.

Quality, Quality and Quality - The IR Patrol was designed for military applications at a consumer affordable price point. All the components inside the IR Patrol are the highest quality. The BAE Systems long wave infrared (LWIR) uncooled, 60Hz thermal core, combined with Emagin's OLED, 10,000:1 contrast VGA display, and our housings are made from 6061 aircraft aluminum. These are the highest quality system components available. All made in the USA,



New Features

- 640 MicroIR™ Thermal Sensor
- 60hz Super Fast Image*
- DCE - Digital Contrast Enhance
- Edge Detection Mode*
- New Thumb Stick Controller
- Clip-On Capability*
- Sharper Image Quality
- Built-In Laser Rail

Standard Features

- Wilcox Shoe Interface*
- Ruggedized System
- Mil. Spec Construction
- Weapon Mountable*
- Polarity and Zoom Modes
- Helmet Mountable*
- Image Capture*
- 100% Made in USA
- 3 Year Warranty

* On Select Models Only



IR DEFENSE CORPORATION

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

Sensor Type
Uncooled VOx (Vanadium Oxide)

Thermal Sensitivity
<50mk

Sensor Resolution
640 x 480

Sensor Pitch
12um Micron

Frame Rate
60hz M250 / M300W
30hz LE100 / LE100C

Spectral Responce
8 - 12 um

Display Type
Monochrome Emagin OLED

Display Resolution
640x480 Pixels

Basic Features
E-Zoom, Polarity, DFC

Advanced Features
DCE - Digital Contrast Enhancement
Edge Detection Mode

Start Up Time
>4 Seconds

Video Output
Analog RS-170 (with Optional Cable)

Battery Type
1 each CR123 3 volt
2 each with adapter

Battery Life
1 - 1.5 Hours @ 60hz
1 - 2 Hours @ 30hz
2 - 3.5 Hours @ 60hz
2 - 5 Hours @ 30hz

Helmet Mount
Used with Model M250 and M300W
Part No. IRDMNT-9974

Weapon Mount
Used with Model M300W
Part No. IRDMNT-9971

Weight
454g

Dimensions
5.95" L x 2.0" H x 2.95" W LE100/LE100C

Diopter
-6 / +4

Eye Relief
27mm

Environmental
-40c to +55c Operating
-45c to +75c Storage



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LE100

Hand-Held Thermal Monocular

IR PATROL **LE100** MODEL NO. IRP-LE100

The LE100 Model is our entry level system featuring a 640x480 thermal image at 30hz frame rate. Polarity Digital E-Zoom, brightness and DFC Digital focus gives operational control of the system.

LE100C

Image Capture Thermal Monocular

IR PATROL **LE100C** MODEL NO. IRP-LE100C

The LE100C Model is identical to our LE100 with the addition of image capture so you can save pictures in the system and download them later with the included download cable.

M250

Head Mountable Thermal Monocular

IR PATROL **M250** MODEL NO. IRP-M250

The M250 Model steps up the performance to 60hz fast frame rate delivering sharp detailed imagery. The system also features the Wilcox Shoe Interface to allow Helmet mounting for hands free use. Even more the M250 includes Edge detection Mode for tactical use.

M300W

Weapon Mountable Thermal Monocular

IR PATROL **M300W** MODEL NO. IRP-M300W

The M300W has all the features of the other systems plus the ability to be used as both a dedicated thermal weapon sight or a clip-on system. An optional Wilcox Side-Flip weapon mount is available.

NEXT LEVEL INTERFACE

Easy to read icons combined with a user interface that is quick to learn and highly intuitive makes the IR PATROL extremely versatile and functional. Each step up to a different model features a new level of operating system as seen below:

L1 OPERATING SYSTEM Level 1
Basic Functions and Controls

L2 OPERATING SYSTEM Level 2
Image Capture Controls

L3 OPERATING SYSTEM Level 3
Configuration Settings

L4 OPERATING SYSTEM Level 4
Weapon Sight Controls

The IR PARTOL uses an advanced thumb stick controller to navigate the operating system. This means in the dark when there is extreme weather you have to locate only one large button. Tactical Advantage.

