



OPTICOELECTRON

THERMAL IMAGING MONOCULAR **TERECON 640M**



Description:

The Terecon 640M miniature handheld observational thermal monocular is equipped with 384×288 or 640×480 12µm high-sensitivity infrared detector and high-resolution OLED display. It supports functions of observation, digital compass, inclinometer, and so on. The high-sensitivity built-in thermal detector provides you with clear view even in total darkness. The Terecon 640M is a full-featured unit, weighing less than 7 ounces/200 grams. The monocular can be used as a handheld device, or mounted on the head harness or helmets for hands-free operations. The monocular is suitable for security enforcement, outdoor hunting, wilderness exploration, search and rescue and other fields.

Features

- 12µm high-sensitivity detector
- 384×288 or 640×480 resolution
- Head- or helmet-mountable for hands-free usage
- Compact, sturdy design
- High-resolution OLED display
- Multiple thermal image palettes
- Device supports up to 8× digital zoom
- Powered by one CR123A/RCR123 or 18650 Lithium battery
- Up to 5 hours continuous running
- Digital compass and inclinometer
- Type-C interface
- Limited 3-year warranty

Technical characteristics

Detector Type:	12 µm Uncooled VOx Microbolometer
Resolution:	640x512
Refresh Rate:	50 Hz
Lens (Focal Length):	27 mm
Aperture:	F1.1
Field of View:	16.3° × 12.3° (H × V)
Magnification:	1×
Detection Range (Human Target):	1200 m
Exit Pupil Diameter:	12 mm
Exit Pupil Distance:	20 mm
Diopter Adjustment Range:	-5 to +5 dpt
Digital Zoom:	1×, 2×, 4×, 8×
Monitor:	1024×768 OLED
Palettes:	WhiteHot, BlackHot, OrangeHot, Rainbow
Application Scenarios:	Default, Outdoor, Arctic, or Rainforest
FFC (Flat Field Correction):	Auto (1 to 10 min. interval) or Manual
Digital Compass:	Yes
Digital Inclinometer:	Yes (Pitch angle and Roll angle)
PIP:	Yes
Crosshair:	Display On/Off; Position adjustment; Selection of White, Black, or Green color
Analog Video Output:	PAL video output via USB port
Battery Type:	One CR123A(3V) or RCR123(3.7V) or 18650(4.2V)
Battery Operating Time (20°C):	CR123A - up to 2 hours RCR123 - up to 3h 18650 - up to 5h
USB Type-C Interface:	Power input / USB-RS232 / PAL video output
External Power:	5 VDC/2 A, 1.5 W
Working Temperature:	-20°C to 50°C (-4°F to 122°F)
Protection Level:	IP67
Dimension:	140 × 70 × 50 mm (5.5 × 2.4 × 2.0 in)
Weight:	220 g (7.8 oz)



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