



OPTICOELECTRON

THERMAL IMAGING CLIP-ON TERECON50-640C



Description:

The Terecon50-640C is a compact thermal imaging clip-on system that allows quick transformation of the day optics into thermal imaging device without any special tools or equipment. Terecon50-640C has high sensitivity 12 μ m thermal detector with 640 \times 512 resolution and 1024 \times 768 OLED monitor, which provides clear image under harsh environment conditions like darkness, fog, smoke, dust, rain, snow, wood, camouflage, etc. The product is mainly applied to scenarios such as patrolling, hunting, etc. The Terecon50-640C can easily be attached in front of rifle scopes with magnification up to 8x for long range use. Onboard Wi-Fi module for live video streaming and video/images recording via application are also available.

Features:

- Quick conversion of daytime optics into thermal imaging scope
- 12 μ m high sensitivity detector
- 640 \times 512 thermal resolution
- 1024 \times 768 resolution 0.39-inch OLED display
- 8x digital zoom
- Video recording and snapshot, built-in EMMC (16 GB)
- Supports distance measurement
- Adjustable color palettes
- Wi-Fi data transmission
- Waterproof, shockproof
- Up to 4.5 hours continuous working
- External power supply capability
- Limited 3-year warranty

Technical characteristics

Detector Type:	12 μ m VOx Uncooled Focal Plane Arrays
Resolution:	640 \times 512
Refresh Rate Sensor:	50 Hz / OLED 50 Hz
Response Waveband:	8 μ m to 14 μ m
Lens System:	50 mm, F1.0
Field of View (HxV):	8.8° \times 7.0°
Magnification:	1x
Exit Pupil:	22 mm
Observation Distance:	2,500 m
Monitor:	1024 \times 768, 0.39 inch, OLED
Uniformity Correction:	Auto, Manual, External Correction
Palettes:	Black Hot, White Hot, Red Hot, Fusion
Highest Temperature Spot Tracking:	Yes
Scene Mode:	Jungle, Recognition
Distance Measurement:	Yes (Stadiometric Rangefinder)
Highest Temperature Spot Tracking:	Yes
Standby Mode:	Yes
Built-in Storage:	16 GB EMMC
Record Video:	On-board video recording
Capture Snapshot:	Yes
CVBS Output:	Yes (via USB)
Battery Type:	Two CR123A (3V) Lithium or two RCR123 (up to 4.2V) Rechargeable Batteries
Battery Operating Time:	Up to 4.5 hours continuous running (@25°C, WiFi off) Up to 4.0 hours continuous running (@25°C, WiFi on)
Battery Capacity Display:	Yes
Power:	5 VDC/2 A, USB Type-C interface Supports external power supply
Working Temperature:	-20°C to 55°C (-4°F to 131°F)
Protection Level:	IP67
Shock and Vibration:	750 g/ms
Mounting:	Optional Front Quick Release Adapters for different front lens diameter or Quick Release Mount for Picatinny/Weaver rail
Dimension:	153 mm \times 78 mm \times 66 mm (6.0 \times 3.1 \times 2.6 in)
Weight (w/o batteries):	0.49 kg (1.08 lb)



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