

AEM225/AEM235

HANDHELD OBSERVATION THERMAL IMAGING CAMERA

The AEM225/AEM235 handheld observation thermal imaging camera is a multifunctional thermal imager that integrates basic observation, searching, and reconnaissance capabilities. In low-light or no-light environments, it leverages its superior thermal imaging abilities to enable long-distance target observation and environmental patrols.

The AEM225/AEM235 adopts an ergonomic design, making it lightweight, easy to operate, and equipped with outstanding nighttime reconnaissance capabilities. It is widely used in scenarios such as patrols, hiking, and tourism. This monocular handheld infrared binocular is lightweight, portable, easy to operate, and suitable for a wide range of applications.



High-Resolution Imaging

256 × 192 infrared resolution



50Hz Frame Rate

Delivers smoother visuals and ensures more frequent temperature data collection.



25mm Focal Length

Highly versatile, balancing detail and coverage



6 Color Palettes

Selectable based on different scenes and requirements



Long-Range Detection & Identification

Wide-area monitoring and multi-target processing, enabling precise tracking in complex environments



1x/2x/4x digital zoom with adaptive scaling

Flexibly addressing diverse observation demands



Electronic Compass Function

Rapid Target Positioning and Enhanced Positioning Accuracy.



32GB Built-in Storage

Continuous Thermal Image & Video Logging with Rapid Critical Data Preservation



Product Specifications

| Model | | AEM225 | AEM235 |
|-----------------------------|----------------------------|---|--------------|
| Detector | Detector Type | Uncooled VOx Infrared Focal Plane Detector | |
| | Infrared Resolution | 256×192 | |
| | Infrared Wavelength Range | 8~14μm | |
| | Pixel Size | 12μm | |
| | Frame Rate | 50Hz | |
| | Thermal Sensitivity (NETD) | ≤ 40 mK @25°C, F#1.0, 25Hz | |
| | Lens Focal Length | 25mm | |
| | Spatial Resolution (IFOV) | 0.48mrad | 0.34mrad |
| | Base Magnification | 3.6 | 5.0 |
| Lens | Focus Adjustment | Manual Focus | |
| | Field of View (FOV) | 7.03° x 5.39° | 10.7° x 8.0° |
| Display | Screen Size | 0.39inch | |
| | Resolution | 1024 x 768 | |
| | Digital Zoom | 1x 2x 4x | |
| | Viewing Angle Adjustment | -5°~+5° | |
| Detection Distance | Human (m) | 1181m | 1653m |
| | Wild Boar (m) | 1042m | 1458m |
| | Vehicle (m) | 3125m | 4375m |
| Recognition Distance | Human (m) | 295m | 413m |
| | Wild Boar (m) | 260m | 365m |
| | Vehicle (m) | 781m | 1094m |
| Basic Functions | Picture-in-Picture Mod | √ | |
| | Color Palettes | White Hot, Black Hot, Rainbow, Iron Red, Red Heat, Low-Light Mode | |
| | Photo/Video Recording | √ | |
| | Image/Video Format | Image: JPEG / Video: MP4 | |
| | Languages | Simplified Chinese, Traditional Chinese, English | |
| | Storage | 16G | |
| Interfaces | USB Port | Type-C (Supports Exporting Images & Videos) | |
| Battery | Battery Type | Removable 18500 battery, 2000mAh | |
| | Charging Time | ≤3h | |
| | Operating Time | ≥5h | |
| | Total Power Consumption | ≤1.2W | |
| Environmental Conditions | Operating Temperature | -20°C~+60°C | |
| | Operating Humidity | 10%~90%RH | |
| | Storage Temperature | -30°C~+70°C | |
| Shock Resistance | | 1000G (Target) | |
| IP Rating | | IP67 | |
| Certifications | | CE, FCC, ROHS | |
| Other Specifications | | | |
| Product Dimensions | | 173mm×67mm×64mm | |
| Product Weight | | 515g | |
| Standard Accessories | | Color box, user manual, Type-C data cable (1m), carrying pouch | |