

# AEM335L

## HANDHELD OBSERVATION THERMAL IMAGING CAMERA

The AEM335L 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 AEM335L adopts an ergonomic design, making it lightweight, easy to operate, and equipped with outstanding nighttime reconnaissance capabilities. It is widely used for patrolling, hiking, and travel. As a monocular handheld infrared telescope, the AEM335L delivers clear and detailed thermal images, making it an ideal device for outdoor activities.



**High-Resolution Imaging**  
384 × 288 infrared resolution



**50Hz Frame Rate**  
Delivers smoother visuals and ensures more frequent temperature data collection.



**35mm Focal Length**  
Highly versatile, balancing detail and coverage



**6 Color Palettes**  
Selectable based on different scenes and requirements



**1200m Measurement Distance (Dedicated Button)**  
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.



**Multiple Reticle Options**  
Adaptation to Complex Environments and Diverse Mission Compatibility



**32GB Built-in Storage**  
Continuous Thermal Image & Video Logging with Rapid Critical Data Preservation



## Product Specifications

| Model                       |                            | AEM335L   |
|-----------------------------|----------------------------|---|
| Detector                    | Detector Type              | Uncooled VOx Infrared Focal Plane Detector                        |
|                             | Infrared Resolution        | 384×288   |
|                             | Infrared Wavelength Range  | 8~14μm  |
|                             | Pixel Size                 | 12μm  |
|                             | Frame Rate                 | 50Hz  |
|                             | Thermal Sensitivity (NETD) | ≤ 35 mK @F1.0, 300K   |
|                             | Lens Focal Length          | 35mm  |
|                             | Spatial Resolution (IFOV)  | 0.34mrad  |
|                             | Base Magnification         | 3.3   |
| Lens                        | Focus Adjustment           | Manual Focus  |
|                             | Field of View (FOV)        | 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)                  | 1653m   |
|                             | Wild Boar (m)              | 1458m   |
|                             | Vehicle (m)                | 4375m   |
| Recognition Distance        | Human (m)                  | 413m  |
|                             | Wild Boar (m)              | 365m  |
|                             | Vehicle (m)                | 1094m   |
| Basic Functions             | Range                      | 1200m   |
|                             | WIFI                       | √   |
|                             | Reticle Options            | √   |
|                             | 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                     | 32G                        |   |
| Interfaces                  | USB Port                   | Type-C (Supports Exporting Images & Videos)                       |
| Battery                     | Battery Type               | 2× 18500 Batteries, 4000mAh                                       |
|                             | Charging Time              | ≤4h   |
|                             | Operating Time             | ≥6h   |
|                             | Total Power Consumption    | ≤1.8W   |
| 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   |
| <b>Other Specifications</b> |                            |   |
| Product Dimensions          |                            | 220mm×77mm×62mm   |
| Product Weight              |                            | ≈710g   |
| Standard Accessories        |                            | Color box, user manual, Type-C data cable (1m), carrying pouch    |