

# ASP-MICRO TM160Y

## INDUSTRIAL/MARINE THERMAL IMAGING MONOCULAR

The Asp-Micro handheld observational thermal monocular is equipped with a 160×120 infrared detector and a 720×540 LCOS display. It supports functions of observation, highest temperature target tracking, distance measurement, Wi-Fi hotspot, and so on. The high-sensitivity built-in thermal detector provides you with clear view even in total darkness. Thanks to this, Asp-Micro allows you to observe boats, navigational objects, navigate at night, detect people overboard, as well as observe sea animals and birds.

The monocular is mainly applied to scenarios such as patrolling, law enforcement, searching and rescuing, drug enforcement, antismuggling, surveillance of industrial facilities, boating, travel, fishing and hunting, etc.

- 160×120 resolution, high-sensitivity detector
- Adaptive AGC, DDE, 3D DNR
- 720×540 resolution LCOS display
- Video recording and image capture
- Wi-Fi hotspot
- Built-in rechargeable Lithium battery
- Up to 10 hours continuous running (with Wi-Fi hotspot function off)
- Type-C interface
- 3-year warranty



## FUNCTIONS

### Distance Measurement:

The device realizes distance measurement function after marking the top and bottom of target, and input the target height.

### Hot Spot Mark:

The device detects and marks the hot spot of highest temperature.

### Mode Switch:

Device supports pallet switch and distance measurement.

### Storage:

Built-in memory module supports video recording/snapshot capture.

### Digital Zoom:

Device supports 1x, 2x, and 4x digital zoom.

### Wi-Fi Hotspot:

Device can capture snapshots, record videos, and set parameters via AGM Connect app after being connected to your phone.



## SPECIFICATIONS

|                                   |   |
|-----------------------------------|---|
| Detector Type                     | 17µm Vanadium Oxide Uncooled Focal Plane Array                      |
| Resolution                        | 160x120   |
| Refresh Rate                      | 25 Hz   |
| Response Waveband                 | 8µm to 14µm   |
| NETD                              | Less than 35 mk (@25°C), F#=1.1                                     |
| Lens System                       | 6.2 mm; F1.1  |
| Magnification                     | 1x - 4x   |
| Field of View                     | 24.7° x 18.7° (H x V)   |
| Detection Range (6' object)       | 250 m/yd  |
| Digital Zoom                      | 1x, 2x, 4x  |
| Monitor                           | 720x540, 0.2 inch, LCOS, 50 FPS                                     |
| FFC (Flat Field Correction)       | Auto, Manual, External Correction                                   |
| Palettes                          | Black Hot, White Hot, Red Hot, Fusion                               |
| Highest Temperature Spot Tracking | Yes   |
| Wi-Fi Hotspot                     | Yes   |
| Standby Mode                      | Yes   |
| Storage                           | Built-in memory module (8 GB)                                       |
| Video Recording                   | On-board video recording  |
| Image Capture                     | Yes   |
| CVBS Output                       | Yes (via USB)   |
| Multi Language menu               | Yes   |
| Battery Type                      | Built-in rechargeable Lithium battery                               |
| Battery Operating Time            | Up to 10 hours continuous running (with Wi-Fi hotspot function off) |
| Battery Capacity Display          | Yes   |
| Power                             | 5 VDC/2 A, 1.5 W  |
| Interface                         | USB Type-C  |
| Working Temperature               | -20°C to 55°C (-4°F to 131°F)                                       |
| Protection Level                  | IP67  |
| Drop Test Height                  | 1.5 m (4.9 feet)  |
| Dimensions                        | 161 x 61 x 57 mm (6.3 x 2.4 x 2.2 in)                               |
| Weight                            | 0.25 kg (0.55 lb)   |

Specifications are subject to change without notice.



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