



# HIKMICRO

## THUNDER Pro TE19C Thermal Monocular



HIKMICRO THUNDER Pro TE19C Thermal Monocular has  $256 \times 192$  thermal detector 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 scope is mainly applied to scenarios such as patrolling, and hunting, etc.

### Key Features

- $256 \times 192$  thermal resolution, high sensitivity detector, NETD < 35 mK (25°C, F# = 1.0)
- Image processing technology: Adaptive AGC, DDE, 3D DNR
- $1024 \times 768$  resolution 0.39-inch OLED display
- Supports distance measurement, and hotspot function
- Supports video recording and snapshot, built-in EMMC (16 GB)
- Up to 4.5 hours continuous working

## Specification

### Thermal Module

|                        |                             |
|------------------------|-----------------------------|
| Image Sensor           | Uncooled Focal Plane Arrays |
| Max. Resolution        | 256 × 192                   |
| Frame Rate             | 25 Hz                       |
| Pixel Interval         | 12 μm                       |
| Response Waveband      | 8 μm to 14 μm               |
| NETD                   | < 35 mK (25°C, F# = 1.0)    |
| Lens (Focal Length)    | 19 mm                       |
| Detection Range        | 900 m                       |
| IFOV                   | 0.63 mrad                   |
| Field of View          | 9.24° × 6.94°               |
| Min. Focusing Distance | 1 m                         |
| Aperture               | F1.0                        |
| Magnification          | 1×                          |

### Image Display

|            |                                       |
|------------|---------------------------------------|
| Display    | 1024 × 768, 0.39 inch, OLED           |
| Palettes   | Black hot, white hot, red hot, fusion |
| Exit Pupil | 22 mm                                 |
| Eye Relief | 10 mm                                 |

### System

|                       |                                   |
|-----------------------|-----------------------------------|
| Record Video          | On-board video recording          |
| Capture Snapshot      | Yes                               |
| Standby Mode          | Yes                               |
| Uniformity Correction | Auto, Manual, External Correction |
| Storage               | Built-in EMMC (16 GB)             |
| PIP                   | Yes                               |
| DPC                   | Yes                               |
| Hotspot               | Yes                               |
| Hot Track             | Yes                               |
| Reticle               | Yes                               |
| Distance Measurement  | Yes                               |

### Power Supply

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Battery                         | Replaceable<br>Applicable type: CR123A, RCR123A |
| Battery Operating Time          | 4.5 h (25°C, with hotspot off)                  |
| Anti-reverse Battery connection | Yes                                             |
| Overvoltage Protection          | Yes                                             |
| Battery Capacity Display        | Yes                                             |
| Type-C Power Supply             | 5 VDC, 2 A<br>Supports external power supply    |

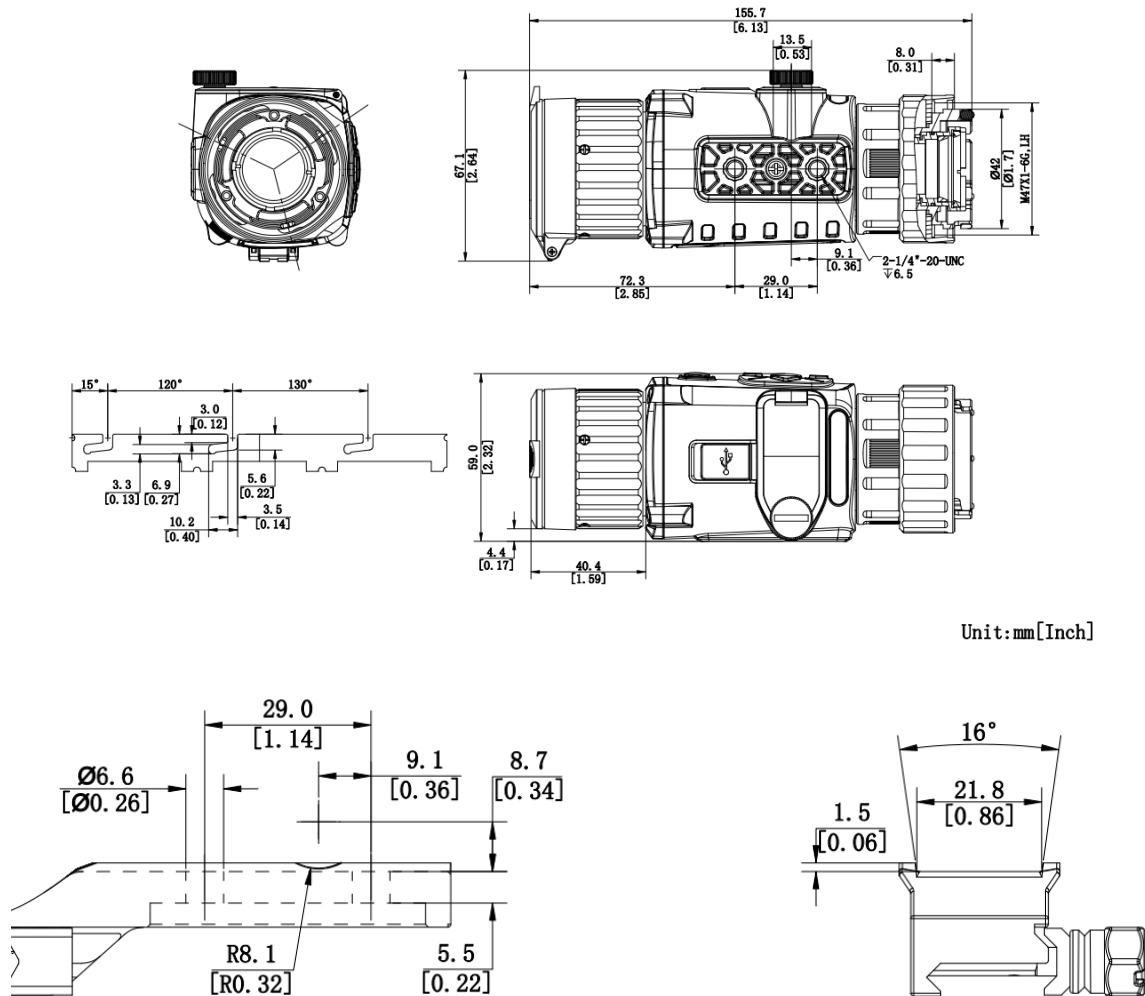
#### General

|                           |                                      |
|---------------------------|--------------------------------------|
| Port                      | Type-C                               |
| Work Temperature/Humidity | -20°C to 55°C (-4°F to 131°F)        |
| Protection Level          | IP67                                 |
| Vibration & Shock         | 750 g/1 ms                           |
| Dimension                 | 155.7 mm × 67.1 mm × 59.0 mm         |
| Weight                    | 419 g without eyepiece and batteries |

#### Available Model

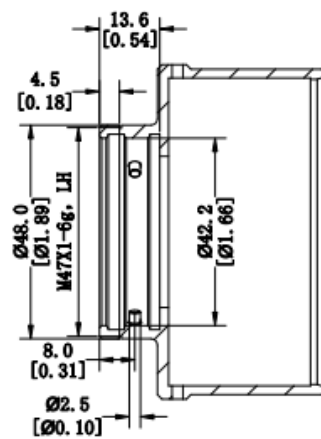
HM-TR12-19XG/W-TE19C

## Dimension

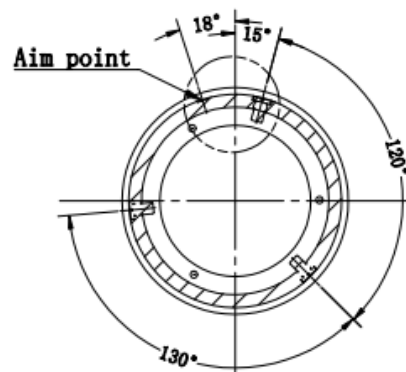


Unit:mm[Inch]

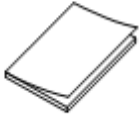
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Unit:mm[Inch]



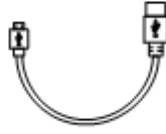
## Accessory



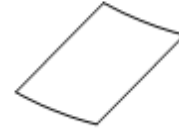
Quick Start Guide  
(×1)



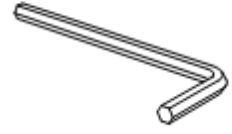
Battery CR123A (×2)



Type-C Cable (×1)



Dust-free Cloth (×1)



Wrench (×1)



Bag (×1)



Tightening Plate  
(X1)

## Optional



Adapter (×1)



Insert Ring (×5)

**COMPLIANCE NOTICE:** The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.

