

## Product Datasheet - Technical Specifications



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# LH19 3.0

## Thermal Monocular



With its 1.9x base magnification, 384x288 detector, and a 19mm F1.0 lens, the LH19 3.0 offers a versatile solution for demanding scenarios. It delivers a 13.8° (24.2 m at 100 m) wide field of view and a detection range of up to 900m, making it ideal for hunters and outdoor explorers who need a compact yet powerful device with shutterless imaging technology.

### Key Feature

- High-sensitivity thermal module with NETD < 15 mK
- 19 mm, F1.0 lens with thermal detection range up to 900 m
- AI-powered Image Pro 3.0 and Zoom Pro algorithms
- HIKMICRO Shutterless Image System (HSIS)
- 0.49-inch 1920 × 1080 resolution AMOLED display
- Replaceable and rechargeable 18650 battery provides up to 4.5 hours of continuous operation at -20°C
- Lightweight design at 331g, with a pocket-sized build

# Specification

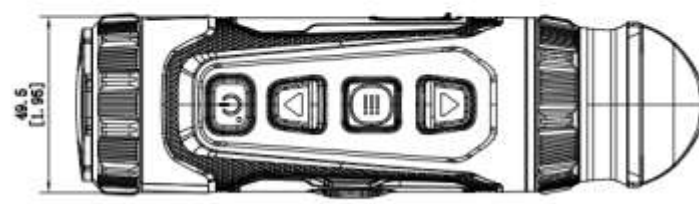
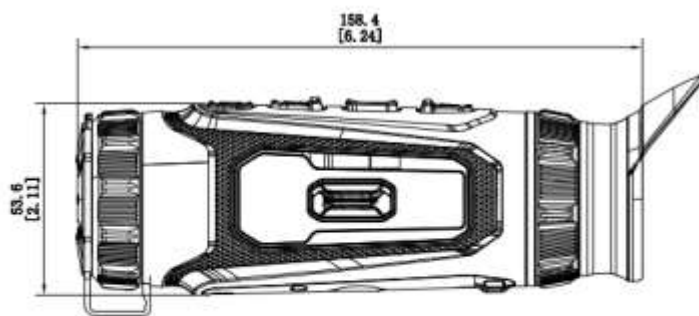
| Thermal Module                           |                                                                         |
|------------------------------------------|-------------------------------------------------------------------------|
| Image Sensor                             | VOx Uncooled Focal Plane Arrays                                         |
| Max. Resolution                          | 384 × 288                                                               |
| Frame Rate                               | 50 Hz                                                                   |
| Pixel Interval                           | 12 μm                                                                   |
| Response Waveband                        | 8 μm to 14 μm                                                           |
| NETD                                     | Less than 15 mK (@25°C), F#=1.0                                         |
| Lens (Focal Length)                      | 19 mm, F1.0                                                             |
| Focus Mode                               | Focus Wheel                                                             |
| Min. Focusing Distance                   | 3 m                                                                     |
| Magnification                            | 1.9 × - 15.2 × (8 ×)                                                    |
| Field of View(H × V), Degrees / m @100 m | 13.8° × 8.4°/24.2 m × 14.7 m                                            |
| Detection Range                          | 900 m                                                                   |
| Image Display                            |                                                                         |
| Display                                  | 1920 × 1080, 0.49 inch, AMOLED                                          |
| Contrast Adjustment                      | Yes                                                                     |
| Brightness Adjustment                    | Yes                                                                     |
| Palettes                                 | Black Hot, White Hot, Red Hot, Fusion, Red Monochrome, Green Monochrome |
| Exit Pupil                               | 6 mm                                                                    |
| Eye Relief                               | 20 mm                                                                   |
| Diopter (Range)                          | -5 D to +3 D                                                            |
| Tone Adjustment                          | Cold, warm                                                              |
| Zoom Pro                                 | Yes                                                                     |
| HSIS (HIKMICRO Shutterless Image System) | Yes                                                                     |
| Image Pro 3.0                            | Yes                                                                     |
| Sync Pro                                 | Yes                                                                     |
| System                                   |                                                                         |
| Storage                                  | Built-in EMMC (64GB)                                                    |
| Record Video                             | Yes                                                                     |
| Capture Snapshot                         | Yes                                                                     |
| Local Album                              | Yes                                                                     |
| Standby Mode                             | Yes                                                                     |
| PIP                                      | Yes                                                                     |
| Hotspot                                  | 2.4/5 G WiFi Waveband                                                   |
| Hot Track                                | Yes                                                                     |
| Distance Measurement                     | Yes                                                                     |
| Audio Recording                          | Yes                                                                     |

| Power Supply              |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| Battery Type              | Replaceable and rechargeable 18650 battery                             |
| Battery Operating Time    | ≥5h (@25°C, WiFi on)<br>≥4.5h (@-20°C, WiFi on)                        |
| Type-C Power Supply       | 5 V DC, 2 A<br>Supports External Power Supply, Support Direct Charging |
| General                   |                                                                        |
| Work Temperature/Humidity | From -30°C to 45°C (-22°F to 113°F); Humidity: 90% or Less             |
| Protection Level          | IP67                                                                   |
| Dimension                 | 158.4 x 53.6 x 49.5 mm                                                 |
| Weight                    | 331 g with Battery                                                     |

## Available Model

HM-TSF3-19Y1G/W1-LH19 3.0

## Dimension



Unit: mm [Inch]

## Accessories



Battery Charger (×1)



Battery (×2)



Lint-Free Cloth (×1)



Type-C Cable (×1)



Quick Start Guide(×1)

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