

# THUNDER TQ35

## Thermal Image Scope



### Key Features

- 640 × 512 thermal resolution, high sensitivity detector, NETD < 35 mK (25°C, F# = 1.0)
- Image processing technology: Adaptive AGC, DDE, 3D DNR
- 1024 × 768 resolution 0.39-inch OLED display
- Supports distance measurement, and hotspot function
- Supports video recording and snapshot, built-in EMMC (16 GB)
- Supports digital zoom and cursor function, palettes of color adjustable
- Up to 3.25 hours continuous working

### Specification

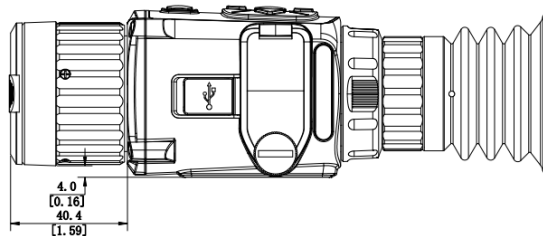
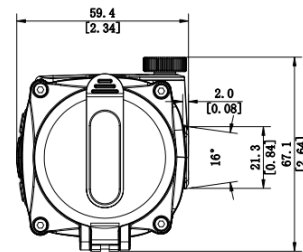
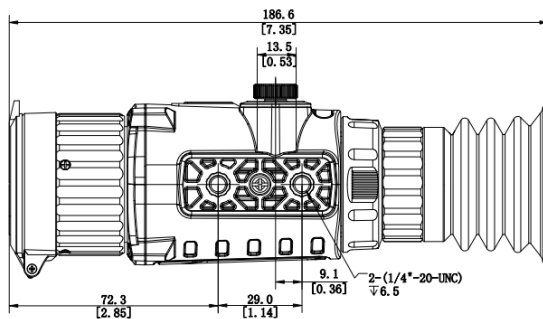
THERMAL MODULE	
Image Sensor	Uncooled Focal Plane Arrays
Max. Resolution	640 × 512
Frame Rate	50 Hz
Pixel Interval	12 μm
Response Waveband	8 μm to 14 μm
NETD	< 35 mK (25°C, F# = 1.0)
Lens (Focal Length)	35 mm
Detection Range	1800 m
IFOV	0.343 mrad
Field of View	12.5° × 10.0°
Min. Focusing Distance	3.5 m
Aperture	F1.0
Magnification	1.8x

IMAGE DISPLAY	
Display	1024 × 768, 0.39 inch, OLED
Palettes	Black hot, white hot, red hot, fusion
Exit Pupil	6 mm
Eye Relief	45 mm
Diopter (Range)	-5 D to 3 D
SYSTEM	
Digital Zoom	1X, 2X, 4X, 8X
Reticle	Yes
Hotspot	Yes
Distance Measurement	Yes
Record Video	On-board video recording
Capture Snapshot	Yes
Hot Track	Yes
Standby Mode	Yes
PIP	Yes
Storage	Built-in EMMC (16 GB)
DPC	Yes
Uniformity Correction	Auto, Manual, External Correction
POWER SUPPLY	
Battery Type	Replaceable Applicable type: CR123A, RCR123A
Battery Operating Time	3.25 h (25°C, with hotspot off)
Battery Capacity Display	Yes
Anti-reverse Battery Connection	Yes
Overvoltage Protection	Yes
Type-C Power Supply	5 VDC, 2 A Supports external power supply
GENERAL	
Work Temperature/Humidity	-20°C to 55°C (-4°F to 131°F)
Protection Level	IP67
Vibration & Shock	750 g/1 ms
Dimension	186.6 mm × 59.4 mm × 67.1 mm
Weight	415 g without eyepiece and batteries

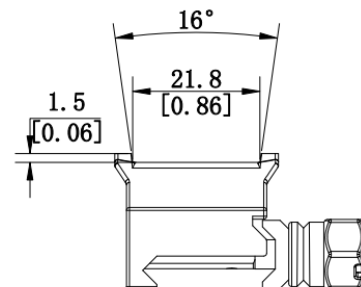
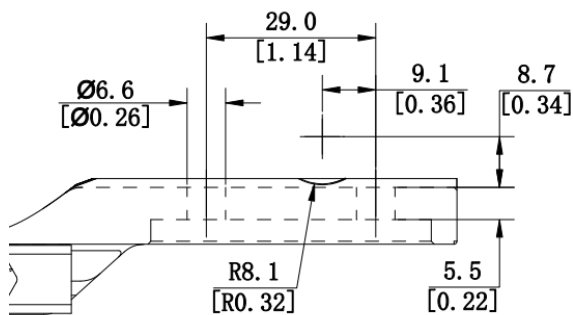
### Available Model

## HM-TR16-35XG/W-TQ35

### Dimension

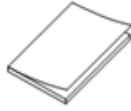


Unit:mm[Inch]



Unit:mm[Inch]

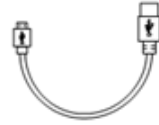
## Accessories



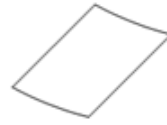
Quick Start Guide  
(x1)



Battery CR123A (x2)



Type-C Cable (x1)



Dust-free Cloth  
(x1)

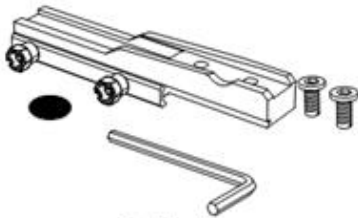


Tightening Plate  
(x1)



Bag (x1)

## Optional



Rail System

Rail (x1)

Tightening Plate (x1)

Screws (x2)

Wrench (x1)

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