

Product Datasheet - Technical Specifications



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TQ35CL 3.0

Thermal Monocular



HIKMICRO TQ35CL 3.0 features a 12 μ m detector with a NETD of less than 15mK and a 640 resolution. Its 35mm lens supported by Image Pro 3.0 delivers finer details no matter in fields or forests, and the 1000m LRF-in-lens ensures precise distance measurement.

● Key Feature

- 640 x 512 resolution @12 μ m thermal detector
- High sensitivity thermal module NETD < 15 mK (@25°C, F# = 1.0)
- 35mm, F1.0 lens with detection range up to 1800m
- 1920 × 1080 resolution 0.49-inch OLED display
- HIKMICRO Shutterless Image System (HSIS)
- Rechargeable and Replaceable Li-ion Battery, 5h continuous operation
- High shock resistance up to 1000g/0.4ms

• Specification

Thermal Module	
Image Sensor	Uncooled Focal Plane Arrays
Max. Resolution	640x512
Frame Rate	50Hz
Pixel Interval	12μm
Response Waveband	8μm to 14μm
NETD	Less than 15mK (25 °C, F#=1.0)
Lens (Focal Length)	35mm, F1.0
Detection Range	1800m
Focus Mode	Focus Knob
Min. Focusing Distance	10m
Magnification	1x
Field of View(H × V), Degrees / m @100m	12.5°x8.0°/21.9m x 14.0m
Recommended Magnification of the Day Scope	1-15x
magnification of monocular mode	2.0x-16.0x (8x)
Image Display	
Display	1920x1080, 0.49 inch, OLED
Palettes	Black Hot, White Hot, Red Hot, Fusion, Red monochrome, Green monochrome
Exit Pupil	25mm
Eye Relief	20mm
Brightness Adjustment	Yes
Tone Adjustment	Cold, Warm
HSIS (HIKMICRO Shutterless Image System)	Yes
Image Pro 3.0	Yes
System	
Record Video	On-board Video Recording
Capture Snapshot	Yes
Virtual Reticle	Yes
Standby Mode	Yes
Storage	Built-in EMMC (64 GB)
Hotspot	Yes
Reticle	No
Audio Recording	Yes
Recoil-activation Recording	Yes
Max. Recoil	1000g/0.4ms
Local Album	Yes
Image Calibration	Yes
Zeroing Profiles	5
Power Supply	
Battery Type	Replacable and Rechargeable Li-ion Battery Pack

Battery Operating Time	≥5h (25 °C, with hotspot off and LRF on)
Type-C Power Supply	5 VDC, 2 A Supports External Power Supply Supports Direct Charging
General	
Protection Level	IP67
Dimension	152.3mm × 63mm × 74.1mm
Weight	525g with battery
Working Temperature	-30 °C to +55 °C (-22 °F to 131°F)
Body Material	Body & Lens Cover: Magnesium Alloy
Center Height	32mm
Laser Rangefinder	
Safety Class for Laser	Class 1
Wavelength	905nm
Max. Measuring Range	1000m
Measurement Accuracy	± 1m
Min. Measuring Range	10m
LRF Module in Lens	Yes

▪ Available Model

HM-TR76-35S2G/WL-TQ35CL 3.0

HM-TR76-35S2G/WL1-TQ35CL 3.0

▪ Dimension

