

HIKMICRO HM-TJ52-3AQF-W-MiniX MiniX Wireless Thermal Camera User Guide

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HIKMICRO HM-TJ52-3AQF-W-MiniX MiniX Wireless Thermal Camera



Product Usage Instructions

- The MiniX Thermal Camera offers various color palettes, including White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue, and Red.
- It supports different image modes such as Thermal, Visual, Fusion, Picture-in-Picture (PIP), and Blending.
- The camera allows measurement of object temperature within a specified range with accuracy.
- Measurement tools like Center Spot, Hot Spot, Cold Spot, and user-definable spots and rectangles are available.
- The Level and Span mode can be set to Auto or Manual for better analysis.
- Images are saved in Radiometric JPEG format and videos in MP4 format using the HIKMICRO Viewer App.
- Radiometric Infrared-Video Streaming is supported over UVC5Hz.
- The camera can be connected via Wi-Fi (802.11 b/g/n), or USB Type-C interface.
- It can be installed by clipping it onto your phone or tablet, magnetic wall mounting, or tripod mounting.
- The device is compatible with iOS and Android smartphones and tablets or Windows devices.
- Power is supplied through USB-C with a rechargeable Li-ion battery offering around 4 hours of operating time.

Introduction

- The HIKMICRO innovation MiniX is a versatile thermal-imaging tool that wirelessly connects to your smart device.
- The MiniX provides brackets for flexible installation options, such as clipping it onto your phone or tablet for easy one-handed operation, magnetic wall mounting, or tripod installation for long-term temperature monitoring.

- It features a dual-lens, a high-resolution VOx detector, and a 0.3 MP optical camera for added detail.
- With SuperIR™ and fusion features, you can capture crisp thermal images and quickly locate hidden problems with accurate temperature measurements.
- The wide temperature range of -20°C to 550°C makes it ideal for building inspection, HVAC, electrical, and mechanical equipment maintenance.
- The MiniX has a 25 Hz frame rate for fast inspections and a Wi-Fi function for real-time image sharing.
- It's a powerful thermography tool that fits in your pocket, ready whenever you need it.

Key Features

- Thermal resolution: 256 × 192 (49,152 pixels) , NETD: 40 mK (@ 25°C, F# = 1.0)
- SuperIR image enhancement technology on live view and captured images
- · Wireless connection for iOS and Andriod
- 25 Hz image frequency
- Accuracy: ±2 °C (-20 °C to 100 °C) ; ±2 % (100 °C to 550 °C)
- Accurately measure temperature from -20°C to 550°C (-4°F to 1022°F)
- Thermal, Fusion, PIP, Visual, and Blending modes
- 0.3MP visual camera

Specification

Infrared Image		
IR Resolution	256 × 192 (49, 152 pixels)	
SuperIR	Yes, on captured images and live view	
NETD	< 40 mK (@ 25 °C, F#=1.0)	
Image Frequency	25 Hz	
Detector Pitch	12 μm	
Spectral Range	7.5 to 14 µm	
Focal Length	3.6 mm	
F-number	F1.0	
Field of View (FOV)	37.2° × 50.0°	
Spatial Resolution (IFOV)	3.33 mrad	
Min. Focus Distance	0.05 m (0.164 ft)	
Focus Mode	Manual Focus	

Image Display			
Visual Camera	640× 480 (0.3 MP)		
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red		
Image Modes	Thermal/Visual/Fusion/PIP/Blending		
Measurement and Analysis			
Object Temperature Range	-20°C to 550°C(-4°F to 1022°F)		
Accuracy	Max (±2°C/3.6°F, ±2%) for the ambient temp. 15°C to 35°C (59°F to 95°F) and object temp. above 0°C (32°F)		
Measurement Tools	Center Spot, Hot Spot, Cold Spot User-definable: 3 spots, 3 rectangles, and 1 line		
Level and Span Mode	Auto/Manual		
Data Storage and Communication			
Image File Format	Radiometric JPEG, saved in HIKMICRO Viewer App		
Video File Format	MP4 video (25 Hz), saved in HIKMICRO Viewer App		
Radiometric Infrared-Video Streaming (Compressed)	Over UVC 5Hz		
General			
Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)		
USB Interface	USB Type-C		
Installation Method	Clipping it onto your phone or tablet, magnetic wall mounting, or tripod mounting		
Software Compatibility	HIKMICRO Viewer app for iOS and Android, HIKMICRO Analyzer software for Windows		

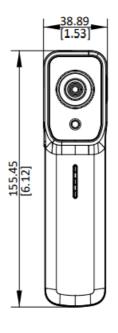
Device Compatibility	iOS (version 14 and later), Android (version 9 and later), smartphones and tablets, or Windows devices
Power Supply	USB-C (5V/2A)
Power Saving Mode	Auto Power-off
Battery Type	Rechargeable Li-ion battery
Battery Operating Time	Approx. 4 hours
Battery Charging Time	Supports fast charging. Charge to 50% capacity in 30 minutes 85% in 1 hour and 100% in 2 hours.
Battery Indicator	Yes, indicating battery level and charging status

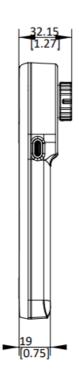
Protection Level	IP54
Drop Test Height	1 m (3.28 ft)
Working Temperature Range	-10°C to 50°C (-4°F to 122°F)
Storage Temperature Range	-20°C to 70°C (-4°F to 158°F)
Relative Humidity	< 95% non-condensing
Weight	Approx. 158 g (0.35 lb)
Dimension	155.45 × 38.89 × 32.15 mm (6.12 × 1.53 × 1.27 in)

Available Model

• HM-TJ52-3AQF/W-MiniX

Dimension

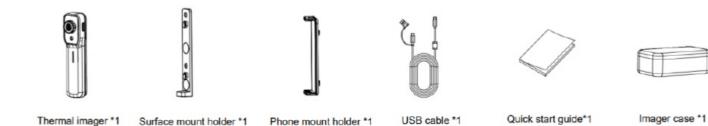






Unit: mm [inch]

Packaging



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, or re-export the thermal series products between
 different countries.

CONTACT



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Note: Specifications are subject to change without notice. For the current specs, please go to **www.hikmicrotech.com**

FAQ

- Q: What color palettes are available on the MiniX Thermal Camera?
 - **A:** The camera offers color palettes such as White Hot, Black Hot, Rainbow, Ironbow, Red Hot, Fusion, Rain, Blue Red.
- Q: How can I save images and videos captured by the camera?
 - A: Images are saved in Radiometric JPEG format and videos in MP4 format using the HIKMICRO Viewer App.
- Q: What is the power supply for the MiniX Thermal Camera?
 - A: The camera is powered through USB-C with a rechargeable Li-ion battery offering approximately 4
 hours of operating time.

Documents / Resources



HIKMICRO HM-TJ52-3AQF-W-MiniX MiniX Wireless Thermal Camera [pdf] User Guide HM-TJ52-3AQF-W-MiniX, HM-TJ52-3AQF-W-MiniX MiniX Wireless Thermal Camera, HM-TJ52-3AQF-W-MiniX, MiniX Wireless Thermal Camera, Thermal Camera, Camera

References

User Manual

Manuals+, Privacy Policy

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