

B21L B Series Handheld Thermal Camera



HIKMICRO B21L is designed for temperature measurement to find invisible faults. It's equipped with a 256 × 192 high-resolution thermal detector, giving you enhanced details for your inspection. The thermography ranges from -20°C to 550°C (-4°F to 1022°F), which meets the most situation. It helps the staff to quickly find the fault according to accurate temperature measurements of high-temperature targets in the environment. Meanwhile, it provides assistance decisions and ensures safety. The device is mainly applied to various industries, such as Building, HVAC, auto industry, etc.

Key Feature

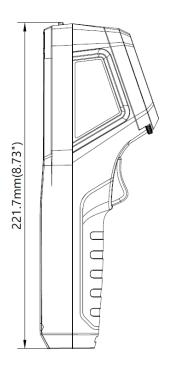
- Thermal resolution: 256 × 192 (49,152 pixels)
- NETD: < 40 mK (@ 25 °C,F#=1.0)
- Temperature measurement range : -20°C to 550°C (-4°F to 1022°F)
- Accuracy: Max (±2°C/3.6°F, ±2%), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)
- Measurement presets: Center spot, Hot spot, Cold spot, User Preset Point
- 25 Hz image frequency
- 3.2" LCD screen display
- Up to 6 hours continuous running

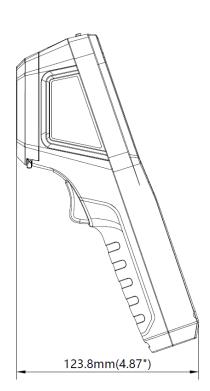
Specification

| IR Resolution 256 × 192 (49,152 pixels) NETD < 40 mK (@ 25 °C, FH=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 Filled of View (FOV) 37.2° × 50.0° Spatial Resolution (IFOV) 3.3 mad Min. Focus Distance 5 cours Free Focus Mode Focus Free Image Display 240 × 320 Resolution, 3.2° LCD Screen Color Palettes White Hot, Black Hot, Rainbow, Ironbow Color Palettes White Hot, Black Hot, Rainbow, Ironbow Color Palettes White Hot, Black Hot, Rainbow, Ironbow Measurement Tools Max. (± 2° C/3.6°F, ± 2%), for ambient temperature 15° C to 35° C (59°F to 95°F) and object temperature above 0°C (32°F) Measurement Tools Center Spot, Hot Spot, Cold Spot Level and Span Mode Auto/Manual Data Storage And Communicator Vier-definable: 3 spots Everage Capacity Approx. 90,000 Images Buttery Type Rechargeable Li-Ino battery Battery Charging Time A | Infrared Image | |
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| 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) 3.3 mrad Min. Focus Distance 0.3 m (0.98 ft) Focus Mode Focus Free Image Display 240 × 320 Resolution, 3.2" LCD Screen Color Palette While Hot, Black Hot, Rainbow, Ironbow Color Alarm Above alarm Image Modes Thermal Measurement and Analysis Amx. (± 2°C/3.6"f, ± 2%), for ambient temperature 15"C to 35"C (59"F to 95"F) and object temperature above 0"C (32"F) Measurement Tools Center Spot, Hot Spot, Cold Spot User-definable: 3 spots Level and Span Mode Auto/Manual Datastorage and Communication Storage Media Built-in 16 GB flash memory Image Storage Capacity Approx. 90.000 Images General Approx. 90.000 Images Battery Type Rechargeable Li-ion battery Battery Operating Time Approx. 6 hours Battery Chargin | IR Resolution | 256 × 192 (49,152 pixels) |
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| Image Display 240 × 320 Resolution, 3.2"LCD Screen Color Palettes White Hot, Black Hot, Rainbow, Ironbow Color Alarm Above alarm Image Modes Thermal Measurement and Analysis Object Temperature Range Object Temperature Range -20°C to 550°C (-4°F to 1022°F) Accuracy Max. (± 2°C/3.6°F, ± 2%), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F) Measurement Tools Center Spot, Hot Spot, Cold Spot User-definable: 3 spots Level and Span Mode Auto/Manual Data Storage and Communication Storage Media Built-in 16 GB flash memory Image Storage Capacity Approx. 90,000 Images General Wi-Fi 802.11 b/g/n (2.4 GHz) USB Interface USB Type-C Battery Operating Time Approx. 6 hours Battery Operating Time Approx. 6 hours Battery Charging Time Approx. 6 hours Battery Charging Time Approx. 6 hours Battery Charging Time Approx. 6 hours Botton Level IP54 Protection Level IP54 </td <td>Min. Focus Distance</td> <td>0.3 m (0.98 ft)</td> | Min. Focus Distance | 0.3 m (0.98 ft) |
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| Image Modes Thermal 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 ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F) Measurement Tools Center Spot, Hot Spot, Cold Spot User-definable: 3 spots Level and Span Mode Auto/Manual Data Storage and Communication Storage Media Built-in 16 GB flash memory Image Storage Capacity Approx. 90,000 Images General Wi-Fi 802.11 b/g/n (2.4 GHz) USB Interface USB Type-C Battery Type Rechargeable Li-ion battery Battery Operating Time Approx. 6 hours Battery Charging Time Approx. 3 hours fully charged Protection Level IPS4 Working Temperature Range -10°C to 50°C (14°F to 120°F) Storage Temperature Range -20°C to 60°C (-4°F to 140°F) Relative Humidity < 95% non-condensing Weight Approx. 380 g (0.84 lb) Dimension 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") Tripod Mounting <td>Color Palettes</td> <td>White Hot, Black Hot, Rainbow, Ironbow</td> | Color Palettes | White Hot, Black Hot, Rainbow, Ironbow |
| 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 ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F) Measurement Tools Center Spot, Hot Spot, Cold Spot User-definable: 3 spots Level and Span Mode Auto/Manual Data Storage and Communication Storage Media Built-in 16 GB flash memory Image Storage Capacity Approx. 90,000 Images General Wi-Fi 802.11 b/g/n (2.4 GHz) USB Interface USB Type-C Battery Type Rechargeable Li-ion battery Battery Operating Time Approx. 6 hours Battery Operating Time Approx. 3 hours fully charged Protection Level IPS4 Drop Test Height 2 m (6.56 ft) Working Temperature Range -10°C to 50°C (14°F to 122°F) Storage Temperature Range -20°C to 60°C (-4°F to 140°F) Relative Humidity < 95% non-condensing | Color Alarm | Above alarm |
| Object Temperature Range -20°C to 550°C (-4°F to 1022°F) Accuracy Max. (± 2°C/3.6°F, ± 2%), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F) Measurement Tools Center Spot, Hot Spot, Cold Spot User-definable: 3 spots Level and Span Mode Auto/Manual Data Storage and Communication Storage Media Built-in 16 GB flash memory Image Storage Capacity Approx. 90,000 Images General Wi-Fi 802.11 b/g/n (2.4 GHz) USB Type-C Battery Type Rechargeable Li-ion battery Battery Operating Time Approx. 6 hours Battery Charging Time Approx. 6 hours Battery Charging Time Approx. 3 hours fully charged Protection Level IP54 Drop Test Height 2 m (6.56 ft) Working Temperature Range -10°C to 50°C (14°F to 122°F) Storage Temperature Range -20°C to 60°C (-4°F to 140°F) Relative Humidity < 95% non-condensing | Image Modes | Thermal |
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| Measurement ToolsUser-definable: 3 spotsLevel and Span ModeAuto/ManualData Storage and CommunicationStorage MediaBuilt-in 16 GB flash memoryImage Storage CapacityApprox. 90,000 ImagesGeneralWi-Fi802.11 b/g/n (2.4 GHz)USB InterfaceUSB Type-CBattery TypeRechargeable Li-ion batteryBattery Operating TimeApprox. 6 hoursBattery Charging TimeApprox. 3 hours fully chargedProtection LevelIP54Drop Test Height2 m (6.56 ft)Working Temperature Range-10°C to 50°C (14°F to 122°F)Storage Temperature Range-20°C to 60°C (-4°F to 140°F)Relative Humidity< 95% non-condensingWeightApprox. 380 g (0.84 lb)Dimension221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87")Tripod MountingUNC %"-20 | | object temperature above 0°C (32°F) |
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| Data Storage and CommunicationStorage MediaBuilt-in 16 GB flash memoryImage Storage CapacityApprox. 90,000 ImagesGeneralWi-Fi802.11 b/g/n (2.4 GHz)USB InterfaceUSB Type-CBattery TypeRechargeable Li-ion batteryBattery Operating TimeApprox. 6 hoursBattery Charging TimeApprox. 3 hours fully chargedProtection LevelIP54Drop Test Height2 m (6.56 ft)Working Temperature Range-10°C to 50°C (14°F to 122°F)Storage Temperature Range-20°C to 60°C (-4°F to 140°F)Relative Humidity< 95% non-condensingWeightApprox. 380 g (0.84 lb)Dimension221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87")Tripod MountingUNC ¾"-20 | | User-definable: 3 spots |
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| Wi-Fi 802.11 b/g/n (2.4 GHz) USB Interface USB Type-C Battery Type Rechargeable Li-ion battery Battery Operating Time Approx. 6 hours Battery Charging Time Approx. 3 hours fully charged Protection Level IP54 Drop Test Height 2 m (6.56 ft) Working Temperature Range -10°C to 50°C (14°F to 122°F) Storage Temperature Range -20°C to 60°C (-4°F to 140°F) Relative Humidity <95% non-condensing Weight Approx. 380 g (0.84 lb) Dimension 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") Tripod Mounting UNC ¾"-20 | Image Storage Capacity | Approx. 90,000 Images |
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| Battery Operating Time Approx. 6 hours Battery Charging Time Approx. 3 hours fully charged Protection Level IP54 Drop Test Height 2 m (6.56 ft) Working Temperature Range -10°C to 50°C (14°F to 122°F) Storage Temperature Range -20°C to 60°C (-4°F to 140°F) Relative Humidity <95% non-condensing Weight Approx. 380 g (0.84 lb) Dimension 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") Tripod Mounting UNC ¼"-20 | USB Interface | USB Type-C |
| Battery Charging Time Approx. 3 hours fully charged Protection Level IP54 Drop Test Height 2 m (6.56 ft) Working Temperature Range -10°C to 50°C (14°F to 122°F) Storage Temperature Range -20°C to 60°C (-4°F to 140°F) Relative Humidity <95% non-condensing Weight Approx. 380 g (0.84 lb) Dimension 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") Tripod Mounting UNC ¼"-20 | Battery Type | Rechargeable Li-ion battery |
| Protection Level IP54 Drop Test Height 2 m (6.56 ft) Working Temperature Range -10°C to 50°C (14°F to 122°F) Storage Temperature Range -20°C to 60°C (-4°F to 140°F) Relative Humidity <95% non-condensing Weight Approx. 380 g (0.84 lb) Dimension 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") Tripod Mounting UNC ¼"-20 | Battery Operating Time | Approx. 6 hours |
| Drop Test Height 2 m (6.56 ft) Working Temperature Range -10°C to 50°C (14°F to 122°F) Storage Temperature Range -20°C to 60°C (-4°F to 140°F) Relative Humidity <95% non-condensing Weight Approx. 380 g (0.84 lb) Dimension 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") Tripod Mounting UNC ¼"-20 | Battery Charging Time | Approx. 3 hours fully charged |
| Working Temperature Range -10°C to 50°C (14°F to 122°F) Storage Temperature Range -20°C to 60°C (-4°F to 140°F) Relative Humidity <95% non-condensing Weight Approx. 380 g (0.84 lb) Dimension 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") Tripod Mounting UNC ¼"-20 | Protection Level | IP54 |
| Storage Temperature Range -20°C to 60°C (-4°F to 140°F) Relative Humidity <95% non-condensing Weight Approx. 380 g (0.84 lb) Dimension 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") Tripod Mounting UNC ¼"-20 | Drop Test Height | 2 m (6.56 ft) |
| Relative Humidity < 95% non-condensing | Working Temperature Range | -10°C to 50°C (14°F to 122°F) |
| Weight Approx. 380 g (0.84 lb) Dimension 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") Tripod Mounting UNC ¼"-20 | Storage Temperature Range | -20°C to 60°C (-4°F to 140°F) |
| Dimension 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") Tripod Mounting UNC ¼"-20 | Relative Humidity | < 95% non-condensing |
| Tripod Mounting UNC ¼"-20 | Weight | Approx. 380 g (0.84 lb) |
| | Dimension | 221.7 mm × 73.5 mm × 123.8 mm (8.73" × 2.89" × 4.87") |
| Laser Yes, Class II | Tripod Mounting | UNC 1/4"-20 |
| | Laser | Yes, Class II |

- Available Model

Dimension







Optional Accessories







HM-2925ZJ-TM01-BRACKET

HM-B201-MACRO

HM-B01-POUCH

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