# Thermal

The advantages of cameras in the thermal series are apparent: they don't depend on light conditions, provide constant imaging any time of day, and can penetrate haze and fog. They're your all-weather, all-area, round-the-clock heat detector that can spot fire, monitor temperature, and even catch camouflaged people and vehicles when entering areas considered off-limits.
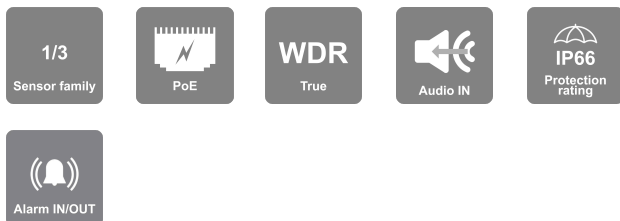
**PROVISION-ISR**®
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# BLH-THERMAL2-9

**undefined Optical / VGA Thermal Bi-Spectrum Fixed Lens Large Bullet Camera with Hybrid LED and DDA Analytics**

Ideal for fire detection, temperature monitoring, and security surveillance, this 5MP Thermal camera can detect, alert and provide complete situational awareness in the most challenging environments. The BLH-THERMAL2-9 incorporates an optic lens and a thermal module, allowing operators to monitor large areas in total darkness, glaring light, and adverse weather by combining thermal and visible light images. Equipped with our DDA™ Analytics (Detect, Distinguish, Alert) and active deterrence mechanisms (white strobe light and speaker), the BLH-THERMAL2-9 delivers a strong and impactful tool for any installation.

Thermal

CHECK POINT EMBEDDED

**5** MP

| | | | | |
|---|---|---|---|---|
| **1/3** Sensor family | PoE | **WDR** True | Audio IN | **IP66** Protection rating |
| Alarm IN/OUT | | | | |

# MAIN FEATURES

- BLH-THERMAL2-9
- Optical Sensor: 1/2.7" CMOS
- Optical Resolution: 2592×1944 25/30FPS (5MP)
- Thermal Sensor: 12µm 640×512 Vanadium oxide uncooled focal plane detector
- Thermal Resolution: undefined
- Temperature Range: -20° ~ 150° C
- Lens (FoV): Optical: 4mm (73°) Thermal: 9.1mm (48°)
- True Day&Night – ICR
- Illumination: 70m (2 High-Power IR LED) + White Strobe light
- Compression: H.265/H.264/MJPEG
- Quantum IoT Nano agent by Check Point™
- General Analytics: Camera Tampering

- AI (Optical Image): AI (Object Recognition): DDA Sterile Area, DDA Line Crossing, DDA Object Counting (Line), DDA Object Counting (Area), DDA Loitering Detection, DDA Illegal Parking Detection
- AI (Face Detection): 10 Faces per frame
- AI (Thermal): DDA Sterile Area, DDA Line Crossing
- Audio Exception
- True WDR (120dB), BLC, HLC, ROI
- SD Card: Event/Schedule Record (Up to 256Gb)
- 4Ch Input, 4Ch Output
- Built-in speaker + Audio input
- ONVIF: Profile M/T/S/G
- Water Proof: IP66
- Weight: ~1230g
- Power: DC12V/~850mA / PoE/~12.5W

https://provision-isr.com

# BLH-THERMAL2-9

## SPECIFICATIONS

| Video (Optical) | |
|---|---|
| Image Sensor | 1/2.7" CMOS |
| Effective Pixels | 2592x1944 |
| Electronic Shutter | 1/3 ~ 1/100000s |
| Frame Rate | 1-25/30FPS |
| Day & Night | ICR |
| Min. Illumination | Day: 0.1lux / Night: 0.02lux (@F1.6, AGC on) 0lux with IR on |

| Video (Thermal) | |
|---|---|
| Detector Type | 12μm 640×512 Vanadium oxide uncooled focal plane detector |
| Thermal Resolution | 640×512 |
| Temperature Range | -20° ~ 150° C |
| Measurement Accuracy | ±8°C (Varies with target emissivity, ambient conditions, and distance) |
| Spectral Range | 8μm-14μm |
| Thermal Sensitivity (NETD) | ≤40mK(@25°C, F#=1.0) |
| Color Sets | Black Hot, White Hot, Rainbow, Iron Oxide Red |
| Temperature Detection Distance | 10m (Object size is 0.1m * 0.1m) In Theory: when the size of the object is doubled - the detection distance is also doubled |
| Fire Detection Distance | 30m (Flame size is 0.1m * 0.1m) In Theory: when the size of the flame is doubled - the detection distance is also doubled |
| DRI Distance Human | Detection: 379m(1243ft) Recognition: 95m(311ft) Identification: 47m(154ft) |
| DRI Distance Vehicle | Detection: 1163m(3815ft) Recognition: 291m(954ft) Identification: 145m(475ft) |

| NDAA Compliant | |
|---|---|
| NDAA Compliant | Yes |

| Lens | |
|---|---|
| Lens (Field of View) | Optical: 4mm (73°) Thermal: 9.1mm (48°) |
| Iris | Fixed Iris |

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| Lens Mount | M12 Mount |
|---|---|

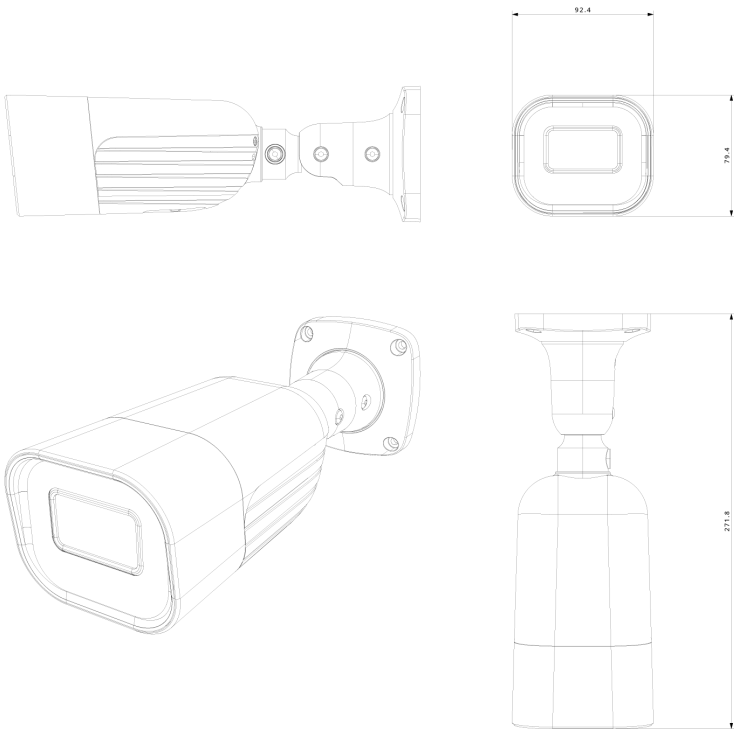| **Image** | |
|---|---|
| **Image Settings** | AWB, AGC Adjustable, Exposure Mode (Auto) Sharpness, Saturation, Brightness & Contrast Adjustable, Lens distortion correction |
| **Image Enhancement** | True WDR (120dB), BLC, HLC, ROI |
| **Noise Reduction** | 3D-DNR |
| **Image Orientation** | Mirror/Flip |
| **Privacy Zone** | Yes |

| **Housing** | |
|---|---|
| **Bracket** | 3-Axis Bracket |
| **Illumination** | 70m (2 High-Power IR LED) White Strobe light |
| **PoE** | Yes |
| **Power Supply** | DC12V/~850mA / PoE/~12.5W |
| **Protection Rate** | Water Proof: IP66 |
| **Work Environment** | -30°C~60°C, 10%~90% Humidity |
| **Dimensions** | 278.3x88.7x100.2mm |
| **Weight (gross)** | ~1230g |
| **Hard Reset Button** | Yes |

| **Network** | |
|---|---|
| **Remote Monitoring** | IE Browsing, Ossia VMS Software, Provision Cam2 Mobile App |
| **User Access** | Supports simultaneous monitoring of up to 10 users with multi-stream real-time transmission |
| **Network Protocol** | IPv4, IPv6, TCP, UDP, DHCP, NTP, DDNS, 802.1X, RTSP, Multicast, UPnP, Email, FTP, FTPS, SFTP, HTTPS, QoS, HTTP POST, P2P |
| **ONVIF** | Profile M/T/S/G |
| **Ethernet** | 100Mbps |

## Events and Analytics

| | |
|---|---|
| **Analytics** | General Analytics: Camera Tampering AI (Optical Image): AI (Object Recognition): DDA Sterile Area, DDA Line Crossing, DDA Object Counting (Line), DDA Object Counting (Area), DDA Loitering Detection, DDA Illegal Parking Detection AI (Face Detection): 10 Faces per frame AI (Thermal): DDA Sterile Area, DDA Line Crossing Audio Exception |
| **Motion Detection** | Yes |

## Connectivity

| | |
|---|---|
| **Network** | RJ45 (+PoE) |
| **Audio Connectivity** | Built-in speaker + Audio input |
| **Alarm** | 4Ch Input, 4Ch Output |
| **SD Card** | Event/Schedule based Main/Substream recording (Up to 256Gb) |
| **Power** | PoE / DC Socket |
| **Analog Video Output** | No |

## Compression

| | |
|---|---|
| **Video Compression** | H.265/H.264/MJPEG |
| **Multi-Stream** | Master Stream: 5MP(2592x1944) / 4MP(2592x1520) / 2K (2560x1440) / 3MP / 2MP / 1MP Substream: 1MP / D1 / CIF / QCIF Third Stream: D1 / CIF / QCIF (1~30fps) Thermal Stream: 1MP / D1 / CIF / QCIF |
| **Bit Rate** | 64Kbps ~ 11Mbps@H.265 / 64Kbps ~ 11Mbps@H.264 |
| **Encode Mode** | VBR/CBR |
| **Image Quality** | Five levels under VBR; Free adjustment under CBR |

## Audio

| | |
|---|---|
| **Audio compression** | G.711A/G.711U |
| **Communication** | 2-Way Audio |

## 3rd Party Cyber Protection

| | |
|---|---|
| **General** | Quantum IoT Nano agent by Check Point™ |
| **Protection Methods** | Shell injection protection, File Monitor, Import-Table Protection, Dynamic-Memory Protection |

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## DIMENSIONS

92.4

79.4

271.8

## ACCESSORIES

I6 / BLH

+

**IP66** or **IP64**

PR-JB14IP66 PR-JB14IP64

+

| Wall | | Ceiling | | Pole | | Corner | |
|---|---|---|---|---|---|---|---|
| | optional | | optional | optional | optional | optional | optional |
| PR-WB14 | PR-B10EX PR-B20EX PR-B50EX | PR-CB14 | PR-B10EX PR-B20EX PR-B50EX | PR-B50EPB | PR-WB14 | PR-CB14 | PR-B50ECB | PR-WB14 | PR-CB14 |