60 SERIES HC60TB4RxVTxx



Bi-Spectrum Thermal Bullet VGA Cameras





Honeywell's 60 Series Bi-Spectrum Thermal Bullet VGA Cameras simultaneously capture both heat signatures and detailed visual images of people or objects at a greater distance in low light conditions for faster response to potential threats.

In an increasingly security-conscious world, enterprise businesses are turning to advanced technologies to safeguard their assets and operations. Bi-spectrum thermal surveillance cameras stand out as a revolutionary solution, integrating both thermal imaging and high-definition optical capabilities into a single device.

This dual functionality allows for continuous monitoring in various conditions, including complete darkness, fog, or glare, ensuring that no potential threat goes unnoticed. By leveraging the unique strengths of thermal sensors to detect heat signatures and high-definition cameras to verify and capture details, these systems significantly enhance a company's security posture.

Investing in bi-spectrum thermal surveillance protects valuable resources and promotes a safer environment for employees and customers alike, making it an essential tool for modern enterprise security strategies.

ENHANCED DETECTION AND RECOGNITION

- Superior image quality by 5MP optical resolution and 640 x 512 thermal heatseeking resolution sensor combine in one camera to see more detail at a longer distance for earlier detection of threats.
- Multiple optical and thermal lens options to select right models based on environment needs
- Optical sensor offers longer detection distance up to 390 m (1,279.53 ft)
- Thermal sensor can detect a human up to 2,083 m (6,833.99 ft) and can recognize a human up to 521 m (1,709.32 ft)
- Thermal temperatures measured in environments from -0°C up to 350°C (32°F to 662°F)

INTELLIGENT SURVEILLANCE

- Advanced video analytics combined with thermal heat seeking signature detect living beings, overheating equipment, smoke, fire hot spots, and open flames.
- Other analytics for vehicle detection include line crossing, double line crossing, and wrong way detection for perimeter and checkpoint applications
- Customizable voice warning feature for early warning to vacate the area
- Bounding boxes are displayed in live video based on object classification and alarm event

INCREASED OPERATIONAL EFFICIENCY

- 24 x 7 monitoring under all environmental conditions rain, fog, or pitch-dark night.
- Robust design with IP67, IP66 & IK10 rating enhances camera durability.
- PT Driver accessory (HAS1PTD) enables camera to function with Pan/Tilt with 90-degree vertical
- Reduced false alarms bi-spectral noise filtering algorithms improve accuracy by filtering out noise more effectively, therefore focusing on genuine changes in the scene and minimizing false triggers and alarms
- Preventive Maintenance monitor equipment for early signs of overheating or mechanical stress, serving dual roles in industrial safety and security.

COMPLIANCE

- NDAA compliant
- IEC/ANSI/ISA-62443-4-1-2018
- NFMATS2

POTENTIAL APPLICATIONS:

COMMERCIAL:

- Building Intruder / Break Ins
- Fence Line and Door Intrusion
- Server / Computer Room
- Electric Car Charging Station Monitoring

ENTERPRISE:

- Perimeter Security
- Checkpoints / Entry & Exit Points
- Utilities / Substations / CIP Flame Detection
- Datacenter / Computer Room
- Solar Panel Plants
- Combustible Material Monitoring
- Electric Car Station Monitoring



OPERATIONAL			
CAMERA	OPTICAL	THERMAL	
Image Sensor	1/1.8" CMOS	Vanadium oxide uncooled focal plane detector	
Sensor Size (H x V)	7.9 mm x 4.5 mm 18 mm x 16 mm		
Number Of Pixels (H × V)	2688 x 1520	640 x 512	
Noise Reduction	2D/3D DNR	2D/3D DNR	
Lens	HC60TB4R1VT09: 4 mm, F1.6 HC60TB4R4VT15: 6 mm, F1.6 HC60TB4R2VT25/HC60TB4R2VT35/HC60TB4R2VT50: 10~30 mm, F1.6	HC60TB4R1VT09: 9 mm, F1.0 HC60TB4R4VT15: 15 mm, F1.0 HC60TB4R2VT25: 25 mm, F1.0 HC60TB4R2VT35: 35 mm, F1.0 HC60TB4R2VT50: 50 mm, F1.0	
Angle Of View (H x V)	HC60TB4R1VT09: H: 88.91°, V: 50.48° HC60TB4R4VT15: H: 60.88°, V: 35.44° HC60TB4R2VT25/HC60TB4R2VT35/HC60TB4R2VT50: H: 43.35°~15.51°, V: 23.75°~8.83°	HC60TB4R1VT09: H: 48°, V: 38° HC60TB4R4VT15: H: 32°, V: 26° HC60TB4R2VT25: H: 17°, V: 14° HC60TB4R2VT35: H: 12°, V: 10° HC60TB4R2VT50: H: 8°, V: 7°	
Privacy Masking	Off / On (4 Areas)	Off / On (4 Areas)	
Defog	Supported	Supported	
Focus Mode	HC60TB4R1VT09\HC60TB4R4VT15: Fixed HC60TB4R2VT25/HC60TB4R2VT35/HC60TB4R2VT50: MFZ	Fixed	
Min. Focusing Distance	HC60TB4R1VT09: 1 m HC60TB4R4VT15: 2.5 m HC60TB4R2VT25/HC60TB4R2VT35/HC60TB4R2VT50: 2.5~6 m	HC60TB4R1VT09: 3.3 m HC60TB4R4VT15: 7.3 m HC60TB4R2VT25: 13 m HC60TB4R2VT35: 25 m HC60TB4R2VT50: 52 m	
Image Setting	Brightness, Saturation, Sharpness, Contrast	Brightness, Details enhancement, Sharpness, Contrast	
Mirror	Normal, Horizontal, Vertical, Horizontal+Vertical	Normal, Horizontal, Vertical, Horizontal+Vertical	
Scanning System	Progressive		
Minimum Illumination (Color/BW)	Color: 0.05 Lux @ (F1.6, 30 IRE), B/W: 0.0001 Lux @ (F1.6, 30 IRE), 0 Lux with light on		
S/N Ratio	> 55 dB		
Electronic Shutter Speed	1/5 to 1/20,000 s		
IR Distance	HC60TB4R1VT09: 70 m (229.66 ft) HC60TB4R4VT15: 80 m (262.47 ft) HC60TB4R2VT25/HC60TB4R2VT35/HC60TB4R2VT50: 100 m (328.08 ft)		
IR Light Control	Smart IR (Auto/Manual)/OFF		
IR Light Number	7 (6 IR lights+1 white light)		
Removable IR-Cut Filter	Yes		
White Light	Strobe light		
Day/Night	Auto/Day/Night/Timing		
Backlight Compensation	WDR, HLC, BLC		
White Balance	Auto/Tungsten/Fluorescent/Daylight/Shadow/Manual		
Gain Control	0~100%		
Wide Dynamic Range	Up to 120 dB		
Pixel Pitch		12µm	
Spectral Range		8~14 μm	
Sensitivity (NETD)		≤ 40 Mk, F1.0	
Pseudo-color Setting		White Hot, Black Hot, Rainbow, Ironbow, HSV, Bone, Cool, Copper, FireHot, Pink, Spring, Summer, Autumn, Winter, Jet, Flame, Rosebengal	
Bi-spectrum Image Fusion		Supported	



OPERATIONAL				
RAM	2 x 8 Gigabits			
Flash	128 Gigabits			
Video Standard	NTSC/PAL			
Encryption Chipset**	Supported			
Local Storage	Micro SD (up to 1TB)			
Alarm Inputs / Outputs	2 Ch Input, 2 Ch Output			
Analog Output Support	Supported			
RS232	Supported			
Reset	Supported			
PTZ Driver Compatibility		rature measurement, Preset VA, Auto	o tracking)	
PTZ (WITH PTZ DRIVER)	ros (oupporer any rice, ressectompe	Tacaro mododromone, Prodoc Wi, Nace	, adding,	
Pan Speed	0.01 ° ~ 120 °/s			
Pan Range	0°~360°			
Tilt Speed	0.01°~60°/S			
Tilt Range	+46 °~ 90 °			
Preset Locations	400			
Auto Pan Scan	Supported			
Auto Tracking	Supported			
Auto Resume After Power Failure	Resume to home position			
VIDEO	OPTICAL		THERMAL	
	ĺ		i -	
	PAL	NTSC	PAL	NTSC
Resolution	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps Stream 2 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480@25fps	NTSC Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream 2 1920 x 1080, 1280 x 720,704 x 480, 640 x 480@30fps	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @25fps Stream 2 704 x 576, 640 x 480, 640 x 512, 352 x 288 @25fps	NTSC Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @30fps Stream 2 704 x 480, 640 x 480, 640 x 512, 352 x 240 @30fps
Resolution Region of Interest	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps Stream 2 1920 x 1080, 1280 x 720, 704	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream 2 1920 x 1080, 1280 x 720,704	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @25fps Stream 2 704 x 576, 640 x 480, 640 x 512,	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @30fps Stream 2 704 x 480, 640 x 480, 640 x
	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps Stream 2 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480@25fps	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream 2 1920 x 1080, 1280 x 720,704 x 480, 640 x 480@30fps ps 0 x 1080, 500kbps-12000kbps	$\begin{array}{c} \textbf{Stream 1} \\ 1920 \times 1080, 1280 \times 1024, 1280 \\ \times 720, 640 \times 512 \ @25 \text{fps} \\ \textbf{Stream 2} \\ 704 \times 576, 640 \times 480, 640 \times 512, \\ 352 \times 288 \ @25 \text{fps} \\ \end{array}$	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @30fps Stream 2 704 x 480, 640 x 480, 640 x 512, 352 x 240 @30fps -8000kbps kbps -00kbps-6000kbps 00kbps kbps
Region of Interest	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps Stream 2 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480@25fps 8 Stream 1 2688 x 1520, 500kbps-16000kb 2560 x 1440, 2304 x 1296, 1920 1280 x 720, 100kbps-8000kbps Stream 2 1920 x 1080, 500kbps-12000kb 1280 x 720, 100kbps-8000kbps 704 x 576(PAL)/704 x 480(NTSC	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream 2 1920 x 1080, 1280 x 720,704 x 480, 640 x 480@30fps ps 0 x 1080, 500kbps-12000kbps ps 0, 100kbps-6000kbps	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @25fps Stream 2 704 x 576, 640 x 480, 640 x 512, 352 x 288 @25fps 8 Stream 1 1920 x 1080, 500kbps-12000kbps 1280 x 1024, 1280 x 720, 100kbps 640 x 512, 100kbps-3000kbps 640 x 512 (MJPEG), 100kbps-6000 Stream 2 704 x 576 (PAL)/704 x 480 (NTSC), 1640 x 480, 640 x 512, 100kbps-30(640 x 512, 100kbps-30)	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @30fps Stream 2 704 x 480, 640 x 480, 640 x 512, 352 x 240 @30fps -8000kbps kbps L00kbps-6000kbps 00kbps kbps L00kbps-1500kbps
Region of Interest Bit Rate	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps Stream 2 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480@25fps 8 Stream 1 2688 x 1520, 500kbps-16000kb 2560 x 1440, 2304 x 1296, 1920 1280 x 720, 100kbps-8000kbps Stream 2 1920 x 1080, 500kbps-12000kb 1280 x 720, 100kbps-8000kbps 704 x 576(PAL)/704 x 480(NTSC 640 x 480, 100kbps-3000kbps	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream 2 1920 x 1080, 1280 x 720,704 x 480, 640 x 480@30fps ps 0 x 1080, 500kbps-12000kbps ps 0, 100kbps-6000kbps	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @25fps Stream 2 704 x 576, 640 x 480, 640 x 512, 352 x 288 @25fps 8 Stream 1 1920 x 1080, 500kbps-12000kbps 1280 x 1024, 1280 x 720, 100kbps 640 x 512, 100kbps-3000kbps 640 x 512 (MJPEG), 100kbps-6000 Stream 2 704 x 576 (PAL)/704 x 480 (NTSC), 1640 x 480, 640 x 512, 100kbps-30(640 x 512 (MJPEG), 100kbps-6000 352 x 288 (PAL)/352 x 240 (NTSC), 1	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @30fps Stream 2 704 x 480, 640 x 480, 640 x 512, 352 x 240 @30fps -8000kbps kbps L00kbps-6000kbps 00kbps kbps L00kbps-1500kbps
Region of Interest Bit Rate Video Compression	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps Stream 2 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480@25fps 8 Stream 1 2688 x 1520, 500kbps-16000kb 2560 x 1440, 2304 x 1296, 1920 1280 x 720, 100kbps-8000kbps Stream 2 1920 x 1080, 500kbps-12000kb 1280 x 720, 100kbps-8000kbps 704 x 576 (PAL)/704 x 480 (NTSC 640 x 480, 100kbps-3000kbps	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream 2 1920 x 1080, 1280 x 720,704 x 480, 640 x 480@30fps ps 0 x 1080, 500kbps-12000kbps ps 0, 100kbps-6000kbps	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @25fps Stream 2 704 x 576, 640 x 480, 640 x 512, 352 x 288 @25fps 8 Stream 1 1920 x 1080, 500kbps-12000kbps 1280 x 1024, 1280 x 720, 100kbps 640 x 512, 100kbps-3000kbps 640 x 512, 100kbps-3000kbps 640 x 512 (MJPEG), 100kbps-6000 Stream 2 704 x 576 (PAL)/704 x 480 (NTSC), 1640 x 480, 640 x 512, 100kbps-3000 352 x 288 (PAL)/352 x 240 (NTSC), 11	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @30fps Stream 2 704 x 480, 640 x 480, 640 x 512, 352 x 240 @30fps -8000kbps kbps L00kbps-6000kbps 00kbps kbps L00kbps-1500kbps
Region of Interest Bit Rate Video Compression Number of Video Streams	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps Stream 2 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480@25fps 8 Stream 1 2688 x 1520, 500kbps-16000kb 2560 x 1440, 2304 x 1296, 1920 1280 x 720, 100kbps-8000kbps Stream 2 1920 x 1080, 500kbps-12000kb 1280 x 720, 100kbps-8000kbps 704 x 576(PAL)/704 x 480(NTSC, 640 x 480, 100kbps-3000kbps H.265 / H.264 / MJPEG, Smart Cod 2	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream 2 1920 x 1080, 1280 x 720,704 x 480, 640 x 480@30fps ps 0 x 1080, 500kbps-12000kbps ps 0, 100kbps-6000kbps dec ene Change, Intrusion, ce Detection, Line Crossing tection, Unattended Object	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @25fps Stream 2 704 x 576, 640 x 480, 640 x 512, 352 x 288 @25fps 8 Stream 1 1920 x 1080, 500kbps-12000kbps 1280 x 1024, 1280 x 720, 100kbps 640 x 512, 100kbps-3000kbps 640 x 512 (MJPEG), 100kbps-6000 Stream 2 704 x 576 (PAL)/704 x 480 (NTSC), 1640 x 480, 640 x 512, 100kbps-30(640 x 512 (MJPEG), 100kbps-30(Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @30fps Stream 2 704 x 480, 640 x 480, 640 x 512, 352 x 240 @30fps -8000kbps kbps -00kbps-6000kbps 00kbps cc sion, Multi-Loitering, People ble Line Crossing Detection, Wrong
Region of Interest Bit Rate Video Compression Number of Video Streams ANALYTICS	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps Stream 2 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480@25fps 8 Stream 1 2688 x 1520, 500kbps-16000kb 2560 x 1440, 2304 x 1296, 1920 1280 x 720, 100kbps-8000kbps Stream 2 1920 x 1080, 500kbps-12000kb 1280 x 720, 100kbps-8000kbps 704 x 576 (PAL)/704 x 480 (NTSC 640 x 480, 100kbps-3000kbps H.265 / H.264 / MJPEG, Smart Cod 2 OPTICAL Motion Detection, Smart Motion, Sc Multi-Loitering, People Counter, Fac Detection, Double Line Crossing De Detection, Missing Object Detection	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream 2 1920 x 1080, 1280 x 720,704 x 480, 640 x 480@30fps ps 0 x 1080, 500kbps-12000kbps ps 0, 100kbps-6000kbps dec ene Change, Intrusion, ce Detection, Line Crossing tection, Unattended Object	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @25fps Stream 2 704 x 576, 640 x 480, 640 x 512, 352 x 288 @25fps 8 Stream 1 1920 x 1080, 500kbps-12000kbps 1280 x 1024, 1280 x 720, 100kbps 640 x 512, 100kbps-3000kbps 640 x 512 (MJPEG), 100kbps-6000 Stream 2 704 x 576 (PAL)/704 x 480 (NTSC), 1640 x 480, 640 x 512, 100kbps-6000 352 x 288 (PAL)/352 x 240 (NTSC), 11 H.265 / H.264 / MJPEG, Smart Coder 2 THERMAL Motion Detection, Smart Motion, Intru Counter, Line Crossing Detection, Dou	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @30fps Stream 2 704 x 480, 640 x 480, 640 x 512, 352 x 240 @30fps -8000kbps kbps -00kbps-6000kbps 00kbps cc sion, Multi-Loitering, People ble Line Crossing Detection, Wrong
Region of Interest Bit Rate Video Compression Number of Video Streams ANALYTICS Video Analytics*	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps Stream 2 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480@25fps 8 Stream 1 2688 x 1520, 500kbps-16000kb 2560 x 1440, 2304 x 1296, 1920 1280 x 720, 100kbps-8000kbps Stream 2 1920 x 1080, 500kbps-12000kb 1280 x 720, 100kbps-8000kbps 704 x 576 (PAL)/704 x 480 (NTSC 640 x 480, 100kbps-3000kbps H.265 / H.264 / MJPEG, Smart Cod 2 OPTICAL Motion Detection, Smart Motion, Sc Multi-Loitering, People Counter, Fac Detection, Double Line Crossing De Detection, Missing Object Detection	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream 2 1920 x 1080, 1280 x 720,704 x 480, 640 x 480@30fps ps 0 x 1080, 500kbps-12000kbps ps 0, 100kbps-6000kbps dec ene Change, Intrusion, 2e Detection, Line Crossing tection, Unattended Object h, Wrong Way Detection, Smoke and	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @25fps Stream 2 704 x 576, 640 x 480, 640 x 512, 352 x 288 @25fps 8 Stream 1 1920 x 1080, 500kbps-12000kbps 1280 x 1024, 1280 x 720, 100kbps 640 x 512, 100kbps-3000kbps 640 x 512 (MJPEG), 100kbps-6000 Stream 2 704 x 576 (PAL)/704 x 480 (NTSC), 1640 x 480, 640 x 512, 100kbps-6000 352 x 288 (PAL)/352 x 240 (NTSC), 11 H.265 / H.264 / MJPEG, Smart Coder 2 THERMAL Motion Detection, Smart Motion, Intru Counter, Line Crossing Detection, Dou	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @30fps Stream 2 704 x 480, 640 x 480, 640 x 512, 352 x 240 @30fps -8000kbps kbps -00kbps-6000kbps 00kbps cc sion, Multi-Loitering, People ble Line Crossing Detection, Wrong
Region of Interest Bit Rate Video Compression Number of Video Streams ANALYTICS Video Analytics*	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @25fps Stream 2 1920 x 1080, 1280 x 720, 704 x 576, 640 x 480@25fps 8 Stream 1 2688 x 1520, 500kbps-16000kb 2560 x 1440, 2304 x 1296, 1920 1280 x 720, 100kbps-8000kbps Stream 2 1920 x 1080, 500kbps-12000kb 1280 x 720, 100kbps-8000kbps 704 x 576(PAL)/704 x 480(NTSC 640 x 480, 100kbps-3000kbps H.265 / H.264 / MJPEG, Smart Core 2 OPTICAL Motion Detection, Smart Motion, Sc Multi-Loitering, People Counter, Fac Detection, Double Line Crossing De Detection, Missing Object Detection Flame Detection	Stream 1 2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080, 1280 x 720 @30fps Stream 2 1920 x 1080, 1280 x 720,704 x 480, 640 x 480@30fps ps 0 x 1080, 500kbps-12000kbps ps 0, 100kbps-6000kbps dec tene Change, Intrusion, 25 Detection, Unattended Object 25, Wrong Way Detection, Smoke and 25 k Alarm, Recording Alarm	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @25fps Stream 2 704 x 576, 640 x 480, 640 x 512, 352 x 288 @25fps 8 Stream 1 1920 x 1080, 500kbps-12000kbps 1280 x 1024, 1280 x 720, 100kbps 640 x 512, 100kbps-3000kbps 640 x 512 (MJPEG), 100kbps-6000 Stream 2 704 x 576 (PAL)/704 x 480 (NTSC), 1640 x 480, 640 x 512, 100kbps-6000 352 x 288 (PAL)/352 x 240 (NTSC), 11 H.265 / H.264 / MJPEG, Smart Coder 2 THERMAL Motion Detection, Smart Motion, Intru Counter, Line Crossing Detection, Dou	Stream 1 1920 x 1080, 1280 x 1024, 1280 x 720, 640 x 512 @30fps Stream 2 704 x 480, 640 x 480, 640 x 512, 352 x 240 @30fps -8000kbps kbps -00kbps-6000kbps 00kbps cc sion, Multi-Loitering, People ble Line Crossing Detection, Wrong



^{*}For specific usage and limitation, please refer to the user guide.
**For detailed encryption information, please refer to the A&E documents.

AUDIO	
Audio Compression	G.711 a/ G.711 Mu
Audio Stream	2 way, Full duplex
Audio Interface	1Ch Input, 1Ch Output, Built-in Mic and Speaker
THERMAL TEMPERATUR	RE MEASUREMENT*
Measurement Range	-20 °C ~ 150 °C (-4 °F ~ 302 °F) and 0°C to 350°C (32°F to 662°F) selectable
Measurement Accuracy	±2 °C/±2%
Measurement Mode	Spot/Line/Area
Measurement Configuration	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line)
Temperature Alarm	Support temperature difference alarm, threshold alarm, temperature section alarm, temperature raise alarm
NETWORK	
Ethernet	10 Base-T/100 Base-TX Ethernet (RJ-45)
Supported Web Browsers	Microsoft Edge, Chrome
Supported OS	Microsoft Windows 10, Windows 11
Protocols*	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS, FTP/SFTP, Bonjour
Interoperability	ONVIF Profile G/S/T/M
Maximum Users Access	10 Users
Security	User account and password protection, HTTPS, IP Filter, Digest authentication, TLS1.2&1.3, Stream encryption, AES128 / 256, SSH / Telnet closed, PCIDSS compliance, encryption Chipset Built-In
Secure Boot	Supported
Languages Supported	Arabic, Chinese (Traditional), Czech, Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Spanish, Turkish
ELECTRICAL	
Power Supply	DC12V/DC24V/PoE (IEEE 802.3 af)
Power Consumption (Max)	Max. 25 W
MECHANICAL	
Dimensions	Adjustable 326.6 ~ 346.6 x 144.7 x 125.4 mm (12.86" ~ 13.65" x 5.70" x 4.94")
Package Dimensions	415 × 205 × 175 mm (16.34" x 8.07" x 6.89")
Product Weight	2.7 kg (5.95 lb)
Package Weight	3.16 kg (6.97 lb)
Body Material	Metal + Plastic
Color	RAL 9003, Black
ENVIRONMENTAL	
Operating Temperature	-40 °C to 65 °C (-40 °F to 149 °F) (65 °C with 4h)
Relative Humidity	Less than 90%, non-condensing
Ingress Protection	IP66, IP67, NEMA 4X, NEMA TS 2
Impact Resistance	IK10 (Housing only)
REGULATORY	
Emissions	FCC PART 15, CE (EN 55032), ICES-003, Complies with RCM and UKCA
Immunity	CE(EN 50130-4, EN 55035), Complies with RCM and UKCA
Safety	UL LISTED TO UL/CSA 62368-1, CE(EN 62368-1), COMPLIES WITH RCM AND UKCA
RoHS	CE(EN 63000),UAE(Cabinet Decree No.10 of 2017)
Country of Origin	Vietnam
Warranty	5 year

 $[\]star$ Some development may be required in specific user cases to support some of these protocols in the field as they mature over time.



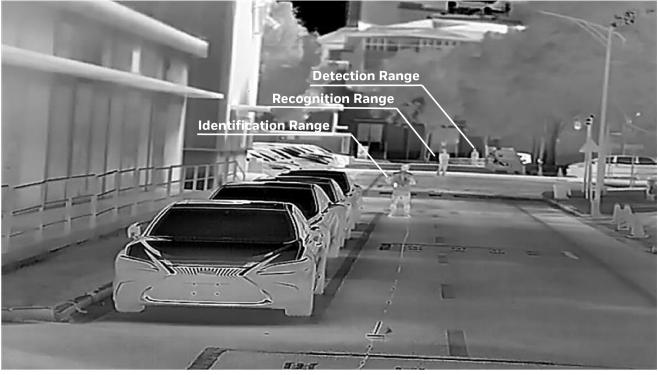
DORI-OPTICAL* (EN62676-4 STANDARD)				
	HC60TB4R1VT09	HC60TB4R4VT15	HC60TB4R2VT25/HC60TB4R2VT35/HC60TB4R2VT50	
Detect	68 m (223.1 ft)	96 m (314.96 ft)	(W) 146 m (479 ft), (T) 390 m (1,279.53 ft)	
Observe	27.2 m (89.24 ft)	38.4 m (125.98 ft)	(W) 58.4 m (191.6 ft), (T) 156 m (511.81 ft)	
Recognize	13.6 m (44.62 ft)	19.2 m (62.99 ft)	(W) 29.2 m (95.8 ft), (T) 78 m (255.91 ft)	
Identify	6.8 m (22.31 ft)	9.6 m (31.5 ft)	(W) 14.6 m (47.9 ft), (T) 39 m (127.95 ft)	

^{*}The table is for reference only. The detection value is a theoretical value and may differ from the actual detection value. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

DRI-THERMAL* (JOHNSON CRITERIA**)					
	HC60TB4R1VT09	HC60TB4R4VT15	HC60TB4R2VT25	HC60TB4R2VT35	HC60TB4R2VT50
Detect (Human: 1.8 × 0.5 m)	375 m (1,230.31 ft)	625 m (2,050.52 ft)	1,042 m (3,418.64 ft)	1,456 m (4,776.9 ft)	2,083 m (6,833.99 ft)
Detect (Vehicle: 4 × 1.5 m)	1,150 m (3,772.97 ft)	1,917 m (6,289.37 ft)	3,194 m (10,479 ft)	4,472 m (14,671.92 ft)	6,389 m (20,961.29 ft)
Recognize (Human: 1.8 × 0.5 m)	94 m (308.4 ft)	156 m (511.81 ft)	260 m (853.02 ft)	365 m (1,197.51 ft)	521 m (1,709.32 ft)
Recognize (Vehicle: 4 × 1.5 m)	288 m (944.88 ft)	479 m (1,571.52 ft)	799 m (2,621.39 ft)	1,118 m (3,667.98 ft)	1,597m (5,239.5 ft)
Identify (Human: 1.8 × 0.5 m)	47 m (154.2 ft)	78 m (255.91 ft)	130 m (426.51 ft)	182 m (597.11 ft)	260 m (853.02 ft)
Identify (Vehicle: 4 × 1.5 m)	144 m (472.44 ft)	240 m (787.4 ft)	399 m (1,309.06 ft)	559 m (1,833.99 ft)	799 m (2,621.39 ft)

^{*}The table is for reference only. The detection value is a theoretical value and may differ from the actual detection value. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

- Detection: 2 vertical pixels of the target are visible
- Recognition: 8 vertical pixels of the target are visible
- Identification: 14 vertical pixels of the target are visible



 $Image \, source: Honeywell \, camera \, test \, image \,$

^{**}The Johnson Criteria is the standard that is used for DRI (Detection, Recognition, and Identification). It is calculated based on how many pixels are necessary in order to make an accurate evaluation of your object. The values are as follows:

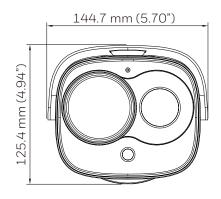
DETECTION RANGE-OPTICAL*					
	HC60TB4R1VT09	HC60TB4R4VT15	HC60TB4R2VT25	HC60TB4R2VT35	HC60TB4R2VT50
VA Detection Distance (Face: 0.15 × 0.25 m)	3~4 m (9.84~13.12 ft)	4~6 m (13.12~19.69 ft)	9~10 m (29.53~32.81 ft)	9~10 m (29.53~32.81 ft)	9~10 m (29.53~32.81 ft)
VA Detection Distance (Human: 1.8 × 0.5 m)	3~27 m (9.84~88.58 ft)	4~27 m (13.12~88.58 ft)	9~41 m (29.53~134.51 ft)	9~41 m (29.53~134.51 ft)	9~41 m (29.53~134.51 ft)
VA Detection Distance (Front/Rear of Vehicle: 4 × 1.5 m)	Up to 50 m (164.04 ft)	Up to 110 m (360.89 ft)	Up to 200 m (656.17 ft)	Up to 200 m (656.17 ft)	Up to 200 m (656.17 ft)
Smoke and Flame Detection (Object: 1.2 × 0.65 m)	2 m (6.56 ft)	4 m (13.12 ft)	4 m (13.12 ft)	4 m (13.12 ft)	4 m (13.12 ft)

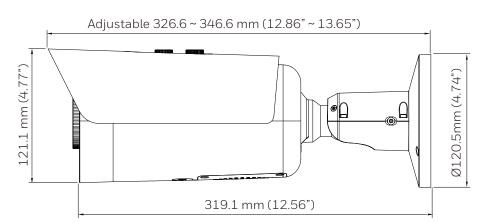
^{*}The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

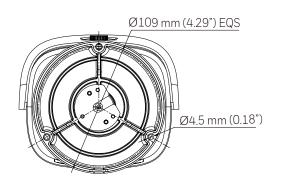
DETECTION RANGE-THERMAL*					
	HC60TB4R1VT09	HC60TB4R4VT15	HC60TB4R2VT25	HC60TB4R2VT35	HC60TB4R2VT50
VA Detection Distance (Human: 1.8 × 0.5 m)	8~39 m (26.25~127.95 ft)	9~42 m (29.53~137.8 ft)	15~46 m (49.21~ 150.92ft)	18~75 m (59.06~246.06 ft)	40~140 m (131.23~459.32 ft)
VA Detection Distance (Front/Rear of Vehicle: 4 × 1.5 m)	Up to 125 m (410.1 ft)	Up to 190 m (623.36 ft)	Up to 330 m (1082.68 ft)	Up to 460 m (1509.19 ft)	Up to 600 m (1968.5 ft)
Smoker Detection	3~23 m (9.84~75.46 ft)	6~30 m (19.69~98.43 ft)	10~40 m (32.81~131.23 ft)	18~50 m (59.06~164.04 ft)	40~60 m (131.23~196.85 ft)
Fire Detection (Object: 0.16 × 0.16 m)	9 m (29.53 ft)	18 m (59.06 ft)	28 m (91.86 ft)	40 m (131.23 ft)	70 m (229.66 ft)

^{*}The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

DIMENSIONS







SYSTEM COMPATIBILITY & RECOMMENDED ACCESSORIES

SYSTEM COMP	ATIBILITY*
MAXPRO NVR HE	Up to 256 IP channels RAID5/6 enterprise NVR
MAXPRO NVR PE	Up to 192 IP channels RAID5/6 enterprise NVR
MAXPRO NVR SE	Up to 96 IP channels system NVR
MAXPRO NVR XE	Up to 24 IP channels system NVR
MAXPRO NVR Software	Up to 256 IP channels recording software
ADPRO NVR iFT-E**	Up to 32 IP channels with up to 32 VA channels NVRs
ADPRO NVR iFT**	Up to $32\ \text{IP}$ channels or 16 IP channels with up to 16 VA channels NVRs
ADPRO NVR eFT-S**	Up to $16\ \text{IP}$ channels or $8\ \text{IP}$ channels with up to $8\ \text{VA}$ channels NVRs
ADPRO NVR iFT Gateway**	4 IP channels + 4 VA channels
Honeywell DVM**	Supported with Honeywell DVM 800
35 Series NVR	4/8/16/32/64-channel 35 series NVRs

 $^{^\}star When it is used with the camera, ADPRO, DVM or 35 Series NVRs will consume 2 channels and MAXPRO will consume 1 license.$

OPTIONAL MO	UNTS AND ACCESSORIES***
HA35PCM04B	35S cap for pendent mount, 1.5NPT male
HA35CLM01	35S ceiling mount base with adapter
HA35CLM02	35S ceiling mount pendent extension, 252 mm
HA35JCBHBB	35S bullet junction box , IP66
HA35PLM01	35S pole mount bracket
HA35CNM01	35S corner mount bracket
HAS1PTD	Bi-spectrum bullet PT driver
HAS1PTDP	Bi-spectrum bullet PT driver pendant mount
HAS1TBFN	Bi-spectrum bullet VGA front cover for NEMA
HA60JCBPT	60s Bi-spectrum PT driver junction box

^{***}Mounting accessories are not included with camera and must be ordered separately. Please refer to the cross reference matrix or accessories datasheet for detailed information.

ORDERING

PART NUMBER	DESCRIPTION
HC60TB4R1VT09	60 Series Bi-Spectrum Thermal Bullet VGA Cameras with 9 mm Thermal Lens, PoE
HC60TB4R4VT15	60 Series Bi-Spectrum Thermal Bullet VGA Cameras with 15 mm Thermal Lens, PoE
HC60TB4R2VT25	60 Series Bi-Spectrum Thermal Bullet VGA Cameras with 25 mm Thermal Lens, PoE
HC60TB4R2VT35	60 Series Bi-Spectrum Thermal Bullet VGA Cameras with 35 mm Thermal Lens, PoE
HC60TB4R2VT50	60 Series Bi-Spectrum Thermal Bullet VGA Cameras with 50 mm Thermal Lens, PoE



For more information

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Building Automation

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 $^{^{\}star\star}$ Limited features are supported for compatibility. Please refer to the Integration Matrix for detailed information.