35 SERIES HC35TB5RxJTxx

Bi-Spectrum Thermal Bullet Cameras

Honeywell's 35 Series Bi-Spectrum Thermal Bullet 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 today's increasingly complex commercial landscape, the need for effective security solutions has never been greater. Bi-spectrum thermal surveillance cameras are at the forefront of this demand, offering a revolutionary approach to monitoring and protecting assets. By integrating advanced thermal imaging technologies with high-definition optical capabilities, these cameras provide unparalleled visibility in both challenging lighting conditions and diverse environments.

The camera's ability to detect heat signatures in total darkness while simultaneously verifying threats with exceptional optical clarity makes them an essential tool for businesses to enhance security measures, safeguard properties, and minimize risk for a robust return on investment.

ENHANCED DETECTION AND RECOGNITION

- Superior image quality by 5MP optical resolution and 256 x 192 thermal heat-seeking resolution sensor combine in one camera device to be able to see more detail at a longer distance for earlier detection of threats.
- Multiple optical and thermal lens options to select from based on environment needs
- Optical sensor offers longer detection distance up to 143 m (469.16 ft) and recognition up to 28.6 m (93.83 ft).
- Thermal sensor can detect a human up to 417 m (1,368.11 ft) and can recognize a human up to 104 m (341.21 ft).

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
- 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.
- 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





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

Honeywell

OPERATIONAL		
CAMERA	OPTICAL	THERMAL
Image Sensor	1/2.7" CMOS	Vanadium oxide uncooled focal plane detector
Sensor Size (H x V)	6.6 mm x 4.3 mm	10.5 mm x 7.4 mm
Number Of Pixels (H × V)	2880×1620	256 x 192
Noise Reduction	2D/3D DNR	2D/3D DNR
Lens	8 mm, F2.0	HC35TB5R1JT07: 7 mm, F1.0 HC35TB5R4JT10: 10 mm, F1.0
Angle Of View (H x V)	H: 41.6°, V: 22.7°	HC35TB5R1JT07: H: 24°, V: 18° HC35TB5R4JT10: H: 17°, V: 13°
Privacy Masking	Off / On (4 Areas)	Off / On (4 Areas)
Defog	Supported	Supported
Focus Mode	Fixed	Fixed
Min. Focusing Distance	2.5 m	HC35TB5R1JT07:1 m HC35TB5R4JT10:1.5 m
Image Setting	Brightness, Saturation, Sharpness, Contrast	Brightness, Sharpness, Contrast
Mirror	Normal, Horizontal, Vertical, Horizontal+Vertical	Normal, Horizontal, Vertical, Horizontal+Vertical
Scanning System	Progressive	
Minimum Illumination (Color/BW)	Color: 0.03 Lux @(F2.0, 30 IRE), B/W: 0.003 Lux @(F2.0, 30 IRE), 0 Lux with IR	
S/N Ratio	> 55 dB	
Electronic Shutter Speed	1/5 to 1/20,000 s	
IR Distance	Up to 55 m (180.4 ft)	
IR Light Control	Smart IR (Auto/Manual)/OFF	
IR Light Number	5 (4 IR + 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)		≤ 50 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				
RS485	Supported				
Reset	Supported				
VIDEO	OPTICAL		THERMAL		
	PAL	NTSC	PAL	NTSC	
Resolution	Stream 1 2880 × 1620, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720 @25fps Stream 2 1920 × 1080, 1280 × 720, 704 × 576, 640 × 480 @25fps	Stream 1 2880 x 1620, 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 1 704 x 576 @25fps Stream 2 704 x 576, 352 x 288, 256 x 192 @25fps	Stream 1 704 x 480 @30fps Stream 2 704 x 480,352 x 240, 256 x 192 @30fps	
Region of Interest	8		8		
Bit Rate	500kbps-12000kbps 1280 x 720, 200kbps-8000kbps 1920 x 1080 (MJPEG), 500kbps- 1280 x 720(MJPEG), 100kbps-5 Stream 2 1920 x 1080, 500kbps-12000kl 1280 x 720, 200kbps-8000kbps 704 x 576(PAL)/704 x 480(NTS(640 x 480, 10kbps-3000kbps 704 x 576(PAL)/704 x 480(NTS(5000kbps	2880 x 1620, 2560 x 1440, 2304 x 1296, 1920 x 1080, 500kbps-12000kbps 1280 x 720, 200kbps-8000kbps 1920 x 1080 (MJPEG), 500kbps-8000kbps 1280 x 720(MJPEG), 100kbps-5000kbps Stream 2 1920 x 1080, 500kbps-12000kbps 1280 x 720, 200kbps-8000kbps 704 x 576(PAL)/704 x 480(NTSC), 100kbps-6000kbps 640 x 480, 10kbps-3000kbps 704 x 576(PAL)/704 x 480(NTSC) (MJPEG), 100kbps-		Stream 1 704 x 576(PAL)/704 x 480(NTSC), 100kbps-3000kbps 704 x 576(PAL)/704 x 480(NTSC)(MJPEG), 100kbps-3000kbps Stream 2 704 x 576(PAL)/704 x 480(NTSC), 100kbps-3000kbps 352 x 288(PAL)/352 x 240(NTSC), 100kbps-1500kbps 256 x 192, 10kbps-1500kbps 352 x 288(PAL)/352 x 240(NTSC) (MJPEG), 10kbps-1500kbps 704 x 576(PAL)/704 x 480(NTSC)(MJPEG), 100kbps-3000kbps 256 x 192(MJPEG), 100kbps-1500kbps	
Video Compression	H.265 / H.264 / MJPEG, Smart Co	odec	H.265 / H.264 / MJPEG, Smart Codec		
Number of Video Streams	2		2		
ANALYTICS	OPTICAL		THERMAL		
Video Analytics*	Multi-Loitering, People Counter, Fa Detection, Double Line Crossing D	Motion Detection, Smart Motion, Scene Change, Intrusion, Multi-Loitering, People Counter, Face Detection, Line Crossing Detection, Double Line Crossing Detection, Unattended Object Detection, Missing Object Detection, Wrong Way Detection, Smoke and Flame Detection		Motion Detection, Smart Motion, Intrusion, Multi-Loitering, People Counter, Line Crossing Detection, Double Line Crossing Detection, Wrong Way Detection, Smoker Detection, Fire Spot Detection	
EVENTS					
Event Type	Analytics Alarm, Security Alarm, Dis	Analytics Alarm, Security Alarm, Disk Alarm, Recording Alarm			
Event Linkage	Email, Push Notification, SD Card F	Email, Push Notification, SD Card Recording, Digital Output			
Event	Event notification using digital out	Event notification using digital output SMTP and MicroSD card			
AUDIO					
Audio Compression	G.711 a/ G.711 Mu				
Audio Stream	2 way, Full duplex	2 way, Full duplex			
Audio Interface	1Ch Input 1Ch Output Built-in Mi	1Ch Input, 1Ch Output, Built-in Mic			

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



Massurement Accuracy is °C Messurement Mode Syor/Line/Area Messurement Configuration 3 temperature measurement nulk types, 20 rules in total, 1 full screen, 19 others (spot, areas, line) Temperature Alam Support temperature difference alam, threshold alam, temperature section alam, temperature raise alam NETWORK Ethernet 10 Base-17100 Base-TX Ethernet (R1-45) Supported Web Browsers Microsoft Edge, Chrome Supported So Microsoft Windows 10, UNF Profile G/S/TAM Maximum User Access 10 Users Sourcy Investort Windows 10, Windows 10, UNF Profile G/S/TAM Maximum User Access 10 Users Sourcy Investort Windows 10, Windows 10, UNF Profile G/S/TAM Maximum User Access 10 Users Sourcy Investort Windows 10, Windows 10, UNF Profile G/S/TAM Barger Supported Supported Languages Supported Supported Barger Supported Supported Maximum User Suppo Supports Arabic, Chrises (Fraditional), Czech, Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Spanish, Lurkish Barger Bo	Measurement Accuracy ±8 °C Measurement Mode Spot/Line/Area Measurement Configuration 3 temperature measurement ru Temperature Alarm Support temperature difference NETWORK 10 Base-T/100 Base-TX Ethern Supported Web Browsers Microsoft Edge, Chrome	le types, 20 rules in total, 1 full screen, 19 others (spot, areas, line) alarm, threshold alarm, temperature section alarm, temperature raise alarm
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Temperature Alarm Support temperature difference alarm, threshold alarm, temperature section alarm, temperature raise alarm NETWORK ID Base-T/100 Base-TX Ethernet (RJ-45) Supported Web Browsers Microsoft Windrows 10, Windrows 11 Protocols* IP-44, IP-46, TCP/IP, HTTP, HTTP, SUPP, RTSP/RTP/RTCP, IGMP, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802 LX, UDP, ICMP, ARP, TLS, FTPS/FTP, Bonjour Interoser Builty ON/VF Profile C/S/T/M Maximum Users Access 10 Users Security User account and passond protoction, HTTPS, IP Filter, Digest authentication, TLS1.28.1.3, Stream encryption, AES128 / 256, SSH / Telnet closed, POLSS compliance, encryption Crippet Built-In Security Security User account and passond protoction, HTTPS, IP Filter, Digest authentication, TLS1.28.1.3, Stream encryption, AES128 / 256, SSH / Telnet closed, POLSS compliance, encryption Crippet Built-In Security Security User account and passond protoction, HTTPS, IP Filter, Digest authentication, TLS1.28.1.3, Stream encryption, AES128 / 256, SSH / Telnet closed, POLSS compliance, encryption Crippet Built-In Security Resure Boot Supported Arabic, Chinese (Traditional), Czech, Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Spanish, Turkish ELECTRICAL Dimensions </th <th>Temperature Alarm Support temperature difference NETWORK I0 Base-T/100 Base-TX Ethern Supported Web Browsers Microsoft Edge, Chrome</th> <th>alarm, threshold alarm, temperature section alarm, temperature raise alarm</th>	Temperature Alarm Support temperature difference NETWORK I0 Base-T/100 Base-TX Ethern Supported Web Browsers Microsoft Edge, Chrome	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 11 Protocols* IPP4, IPP6, TCP/IP, HTTP, HTTP, UPAP, RTSP/RTP/RTCP, IGMP, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS, FTF/SFTP, Bonjour Interoperability OWIF Porfile G/S/T/M Maximum Users Access 10 Users Security User account and password protection, HTTPS, IP Filter, Digest authentication, TLS1.281.3, Stream encryption, AES128 / 256, SSH / Telnet, closed, PCUDS compliance, encryption Chipset Built-In Secure Boot Supported Arabic, Chinese (Traditional), Czech, Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Spanish, Turkish ELECTRICAL Power Consumption (Max) Power Supply DC12V/DC24W/PbE (IEEE 802.3 af) Power Supply DC12V/DC24W/PbE (IEEE 802.3 af) Power Supply DC12V/DC24W/PbE (IEEE 802.3 af) Power Gosumption (Max) Max 11 W MECHANICAL Dimensions Dimensions Adjustable 27.5 4 - 305.4 x 120.5 x 122.7 mm (10.84" - 12.02") x 47.4" x 4.83") Package Bimensions 370 x 160 x 160 mm (14.57" x 6.3" x 6.3") P	NETWORK Ethernet 10 Base-T/100 Base-TX Ethern Supported Web Browsers Microsoft Edge, Chrome	
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Package Dimensions370×160×160 mm (14.57*x 6.3*x 6.3*)Product Weight1.44 kg (3.17 lb)Package Weight1.82 kg (4.01 lb)Body MaterialMetal + PlasticColorRAL 9003, BlackENVIRONMENTAL-40 °C to 60 °C (-40 °F to 140 °F)Relative HumidityLess than 90%, non-condensingIngares ProtectionIP66, IP67Impact ResistanceIK10 (Housing only)REGULATORYFC PART 15, CE (EN 55032), ICES-003, Complies with RCM and UKCA	MECHANICAL	
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Package Weight1.82 kg (4.01 lb)Body MaterialMetal + PlasticColorRAL 9003, BlackENVIRONMENTAL-40 °C to 60 °C (-40 °F to 140 °F)Operating Temperature-40 °C to 60 °C (-40 °F to 140 °F)Relative HumidityLess than 90%, non-condensingIngress ProtectionIP66, IP67Impact ResistanceIK10 (Housing only)REGULATORYFCC PART 15, CE (EN 55032), ICES-003, Complies with RCM and UKCA	Package Dimensions 370 × 160 × 160 mm (14.57"	x 6.3" x 6.3")
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Color RAL 9003, Black ENVIRONMENTAL ENVIRONMENTAL Operating Temperature -40 °C to 60 °C (-40 °F to 140 °F) Relative Humidity Less than 90%, non-condensing Ingress Protection IP66, IP67 Impact Resistance IK10 (Housing only) REGULATORY FC PART 15, CE (EN 55032), ICES-003, Complies with RCM and UKCA	Package Weight1.82 kg (4.01 lb)	
ENVIRONMENTAL Operating Temperature -40 °C to 60 °C (-40 °F to 140 °F) Relative Humidity Less than 90%, non-condensing Ingress Protection IP66, IP67 Impact Resistance IK10 (Housing only) REGULATORY FCC PART 15, CE (EN 55032), ICES-003, Complies with RCM and UKCA	Body Material Metal + Plastic	
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Relative Humidity Less than 90%, non-condensing Ingress Protection IP66, IP67 Impact Resistance IK10 (Housing only) REGULATORY Emissions FCC PART 15, CE (EN 55032), ICES-003, Complies with RCM and UKCA	ENVIRONMENTAL	
Ingress Protection IP66, IP67 Impact Resistance IK10 (Housing only) REGULATORY Emissions FCC PART 15, CE (EN 55032), ICES-003, Complies with RCM and UKCA	Operating Temperature-40 °C to 60 °C (-40 °F to 140	°F)
Impact Resistance IK10 (Housing only) REGULATORY Emissions FCC PART 15, CE (EN 55032), ICES-003, Complies with RCM and UKCA	Relative Humidity Less than 90%, non-condensir	g
REGULATORY Emissions FCC PART 15, CE (EN 55032), ICES-003, Complies with RCM and UKCA	Ingress Protection IP66, IP67	
Emissions FCC PART 15, CE (EN 55032), ICES-003, Complies with RCM and UKCA	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	Immunity CE(EN 50130-4, EN 55035),	Complies with RCM and UKCA
Safety CE(EN 62368-1), Complies with RCM and UKCA	Safety CE(EN 62368-1), Complies wi	h RCM and UKCA
RoHS CE(EN 63000),UAE(Cabinet Decree No.10 of 2017)	RoHS CE(EN 63000),UAE(Cabinet D	ecree No.10 of 2017)
Country of Origin Vietnam	Country of Origin Vietnam	
	Warranty 5 year	
	Warranty 5 year	

*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)	
Detect	143 m (469.16 ft)
Observe	57.2 m (187.66 ft)
Recognize	28.6 m (93.83 ft)
Identify	14.3 m (46.92 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**)		
	HC35TB5R1JT07	HC35TB5R4JT10
Detect (Human: 1.8 × 0.5 m)	292 m (958.01 ft)	417 m (1,368.11 ft)
Detect (Vehicle: 4 × 1.5 m)	894 m (2,933.07 ft)	1,278 m (4,192.91 ft)
Recognize (Human: 1.8 × 0.5 m)	73 m (239.5 ft)	104 m (341.21 ft)
Recognize (Vehicle: 4 × 1.5 m)	224 m (734.91 ft)	319 m (1,046.59 ft)
ldentify (Human: 1.8 × 0.5 m)	36 m (118.11 ft)	52 m (170.6 ft)
ldentify (Vehicle: 4 × 1.5 m)	112 m (367.45 ft)	160 m (524.93 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.

**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: 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



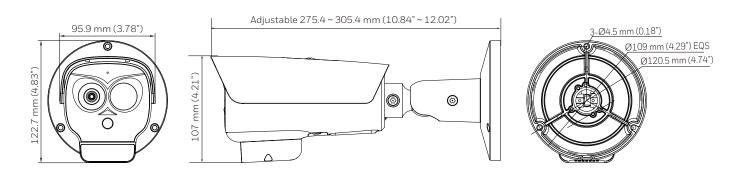
DETECTION RANGE-OPTICAL*		
	HC35TB5R1JT07	HC35TB5R4JT10
VA Detection Distance (Face: 0.15 × 0.25 m)	9~10 m (29.53~32.81 ft)	9~10 m (29.53~32.81 ft)
VA Detection Distance (Human: 1.8 × 0.5 m)	9~38 m (29.53~124.67 ft)	9~38 m (29.53~124.67 ft)
VA Detection Distance (Front/Rear of Vehicle: 4 × 1.5 m)	Up to 195 m (up to 639.76 ft)	Up to 195 m (up to 639.76 ft)
Smoke and Flame Detection (Object: 1.2 × 0.65 m)	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*		
	HC35TB5R1JT07	HC35TB5R4JT10
VA Detection Distance (Human: 1.8 × 0.5 m)	10~32 m (32.81~104.99 ft)	11~ 38 m (36.09~124.67 ft)
VA Detection Distance (Front/Rear of Vehicle: 4 × 1.5 m)	Up to 140 m (up to 459.32 ft)	Up to 210 m (up to 688.98 ft)
Smoker Detection	8~15 m (26.25~49.21 ft)	11~18 m (36.09~59.06 ft)
Fire Detection (Object: 0.16 × 0.16 m)	25 m (82.02 ft)	30 m (98.43 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 IP channels or 16 IP channels with up to 16 VA channels NVRs
ADPRO NVR eFT-S**	Up to 16 IP channels or 8 IP channels with up to 8 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

OPTIONAL MOUNTS 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

***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.

*When it is used with the camera, ADPRO, DVM or 35 Series NVRs will consume 2 channels and MAXPRO will consume 1 license. **Limited features are supported for compatibility. Please refer to the Integration Matrix for detailed information.

PART NUMBER	DESCRIPTION
HC35TB5R1JT07	35 Series Bi-Spectrum Thermal Bullet Cameras with 7 mm Thermal Lens, PoE
HC35TB5R4JT10	35 Series Bi-Spectrum Thermal Bullet Cameras with 10 mm Thermal Lens, PoE

For More Information

ORDERING

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