HW-IPC-F5819T-IL-AS-PV

8MP Advanced Dual Light Active Deterrence NightColor IntelliCore Network Camera with R&B LED

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.;
- Outputs max. 8 MP 3840 (H) $\times$ 2160 (V)@ (1~25/30fps) ;
- H.265 codec, high compression rate, ultra-low bit rate.
- the max. illumination distance is 50 m.
- H.264+ /H.265+, flexible coding, applicable to various bandwidth and storage environments;
- WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes;
- 2.8-12mm Motorized vari-focal Lens;
- intrusion, Tripwire(Support the Classification of Vehicle, Human and Non-Motor);
- Supports max. 256 G Micro SD card;
- built in Mic, Built-in Speaker, Two-way talk;
- Support White Light Alarm, Sound Alarm, Arm and Disarm;
- With deep learning algorithm, it supports: Perimeter Protection, Face Detection, Smart Object Detection, People Counting, Parking Space Detection, etc.;
- AMD, Video Metadata;
- Support Built-in Mic & Speaker
- 12 VDC/PoE power supply; IP67 protection.

IntelliCore, by Hector Weyl, is an advanced AI surveillance series. It features Object Detection, Intrusion/Tripwire alerts, Face Detection, People Counting, and Heat Mapping. Its AMD 4.0 uses deep learning to filter out animals, minimizing false alarms. It also captures color details for post-event searches. With Active Deterrence and NightColor technologies, IntelliCore provides smart, user-friendly AI solutions for diverse monitoring needs.

Series Overview

Powered by advanced deep learning algorithms, IntelliCore excels in a multitude of AI-driven functions, including Object Detection, Intrusion and Tripwire alerts, Face Detection, People Counting, and Heat Mapping. Its AMD (Active Motion Detection) 4.0 leverages these algorithms to filter out irrelevant objects with remarkable accuracy, reducing false alarms and providing valuable data for post-event analysis.
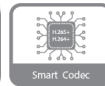
Functions

Smart H.265 & Smart H.264

Leveraging an advanced scene-adaptive rate control algorithm,Hector Weyl's smart encoding technology achieves greater encoding efficiency compared to H.265 and H.264, delivering high-quality video while reducing storage and transmission costs.

Active Motion Detection

With enhanced AI capabilities, AMD (Active Motion Detection) 4.0 intelligently filters out irrelevant objects in a scene. Utilizing an advanced deep learning algorithm, it can accurately differentiate and exclude both small and large animals, minimizing false alarms. Furthermore, AMD 4.0 detects color details in clothing and vehicles, offering valuable data for quick post-event searches.

Advanced Dual Light technology

Hector Weyl Smart Dual Light technology uses an intelligent algorithm to detect targets. At night, the IR illuminator is typically active; however, when a target enters the monitoring area, the white light activates, allowing the camera to capture full-color video and detailed snapshots of key events. This means snapshots and videos are linked with full-color imagery. Once the target leaves the area, the white light turns off, and the IR illuminator resumes, effectively minimizing light pollution.

WDR

Equipped with sophisticated Wide Dynamic Range (WDR) technology, Hector Weyl's network cameras deliver crisp details in settings characterized by stark brightness contrasts. This ensures that both the brightly lit and shadowed areas are captured with clarity, even under conditions of intense illumination or when subjects are backlit.

Perimeter Protection

With deep learning algorithm, Hector Weyl Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, Object Detection, People Counting, Heat Map) are largely reduced

Protection (IP67, Wide Voltage)

IP67: The camera undergoes rigorous dust and water immersion testing. It is dust-proof and can operate normally after being submerged in 1 meter of water for 30 minutes.

Wide Voltage: The camera supports an input voltage tolerance of ±30% (for certain power supplies), making it highly suitable for outdoor environments with unstable voltage conditions.

Camera	
Image Sensor	1/1.8" CMOS
Max. Resolution	8MP, 3840 (H) × 2160 (V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.0006 lux@F1.6(Color, 30 IRE),0.0004 lux@F1.6 (B/W, 30 IRE),0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	IR distance 50m, Warm light distance 50m; Red and Blue light
Illuminator Control	Auto; Manual
Lens	
Lens Type	Motorized Vari-Focal
Focal Length	2.8 mm–12mm
Max. Aperture	F1.6(F1.0 optional)
Iris Type	Auto
Intelligence	
Smart Motion Detection	Yes
Perimeter Protection	Intrusion, Tripwire; Loitering Detection; People Gathering; Parking Detection
Face Detection	Face detection; Track; Snapshot; Snapshot Optimization;
Object Detection	Abandoned object; Missing object
Parking Space Detection	Yes
People Counting	People Counting in area, exporting report (day/week/month)
Heat Map	Support
Video Metadata	Motor Vehicle, Non-motor vehicle, Face, Human Body Detection; Info Collecting Motor Vehicle Attributes; Non-motor Vehicle Attributes; Human Body Attributes; Face Attributes;
AI Search	Work together with NVR
Video	
Compression	H.264H; H.264M; H.264B; H.265;MJPEG (Customization)
Smart Compression	H.264H+; H.264M+; H.264B+; H.265+

Video Frame Rate	Main Stream: 8MP **3840 (H)** ✕ **2160 (V)** (1 fps–25/30 fps)
	Sub Stream: D1 (1 fps–25/30 fps)
	Third Stream: 1080P (1 fps–25/30 fps)
Stream Capability	3 Streams
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: up to 16384 kbps
	H.265: up to 16384 kbps
Day/Night	Color/B/W
BLC	Yes
HLC	Yes
WDR	140 dB
White Balance	Yes
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 Areas, rectangular)
Image Rotation	180°
Mirror	Yes
Privacy Masking	4 Areas
Audio	
Built-in Mic	Yes
Built-in Speaker Two-way talk Audio Compression	Yes Yes G.711a; G.711Mu; G.726; G.726ASF
Alarm	
Arming/Disarming	Yes
Sound Alarm	Yes
Light Alarm	Red and Blue LED light
Alarm Event	Disconnection; IP Conflict; No SD Card; Capacity Warning; SD Card Error
Network	
Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	TCP/IP;UDP;HTTP;IGMP;ICMP;DHCP;RTP/RTSP;DNS;DDNS;FTP;NTP;PPPOE;UPNP;SMTP
Interoperability	ONVIF; CGI; P2P
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; Micro SD card (support max. 256 G/FAT32)
Browser	IE: IE8 and later; Chrome; Firefox

Management Software	PC Software(SVMS) APP
Mobile Client	IOS; Android
Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel
Alarm Output	1 channel
Power	
Power Supply	12V DC (±30%)/PoE (802.3af)
Power Consumption	Basic: 2.8 W; Max. 6.5W
Environment	
Operating Conditions	−30°C to +60°C (−22°F to +140°F)/Less than 95% RH
Storage Conditions	−40°C to +60°C (−40°F to +140°F)
Protection Grade	IP67
Structure	
Casing	Metal
Dimensions	244 mm × 77mm × 76mm
Net Weight	750g

Dimensions(mm[inch])

Hector Weyl