

HW-IPC-E5419C-IL-ZAS

4MP Advanced Dual Light Active Deterrence NightColor IntelliCore Network Camera



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

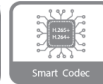
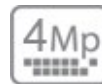
Smart H.265& Smart H.264

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.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.;
- Outputs max. 4 MP (2688 × 1520) @ (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;
- 12 VDC/PoE power supply;
- IP67 protection.



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 $\pm 30\%$ (for certain power supplies), making it highly suitable for outdoor environments with unstable voltage conditions.

| Camera | |
|--------------------------|---|
| Image Sensor | 1/1.8" CMOS |
| Max. Resolution | 4MP, 2880 (H) × 1620 (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 |
| Illuminator Control | Auto; Manual |
| Lens | |
| Lens Type | Motorized Vari-Focal |
| Focal Length | 2.8 mm–12mm |
| Max. Aperture | F1.6 |
| | |
| 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: 4MP 2880 (H) × 1620 (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 | Yes |
| Two-way talk | Yes |
| Audio Compression | G.711a; G.711Mu; G.726; G.726ASF |
| Alarm | |
| Arming/Disarming | Yes |
| Sound Alarm | Yes |
| Light Alarm | Yes |
| 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 ($\pm 30\%$)/PoE (802.3af) |
| Power Consumption | Basic: 2.8 W; Max. 6.5W |
| Environment | |
| Operating Conditions | -30°C to $+60^{\circ}\text{C}$ (-22°F to $+140^{\circ}\text{F}$)/Less than 95% RH |
| Storage Conditions | -40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$) |
| Protection Grade | IP67 |
| Structure | |
| Casing | Metal |
| Dimensions | 102 mm \times $\Phi 122$ mm |
| Net Weight | 520g |

Dimensions (mm[inch])

