

HW-IPC-G2649M-IL-AS-PV

6MP Advanced Dual Light Fixed-Focal Eyeball IntelliSight AI R&B Network Camera



Unveiled by Hector Weyl, IntelliSight comprises an array of artificial intelligence products and solutions. These are underpinned by dedicated AI chips and cutting-edge deep learning algorithms, ensuring precise identification of humans and vehicles. This precision empowers users to swiftly respond to specific targets. Leveraging the innovative technologies of Hector Weyl, IntelliSight offers a suite of smart, user-friendly, and comprehensive offerings designed to meet a wide range of needs.

Series Overview

With advanced dual hybrid light technology, simple installation, and intelligent operation, Hector Weyl Advanced Dual Hybrid Light Smart Entry 2 Series camera suits small-to-medium scenes like homes, shops, and enterprises, offering high-quality full-color imaging day and night.

Functions

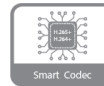
Smart H.265 & Smart H.264

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.

- 1/2.8" Progressive Scan CMOS;
- **6 MP (3288 × 1850)** (1~25/30fps);
- H.265+ codec, high compression rate, ultra-low bit rate.
- Built-in efficient IR illuminator and White light, and the max illumination distance is 50 m.
- 2.8mm fixed lens (3.6mm optional);
- SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking applicable to various monitoring scenes.
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, and illegal access.
- Support Red and Blue LED Alarm, Sound Alarm, Arm and Disarm;
- Support Built-in Mic;
- 12 VDC/PoE power supply.
- IP67 protection.
- AMD, Perimeter 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.

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	1/2.8" CMOS
Max. Resolution	6MP, 3288 (H) × 1850 (V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.006Lux(Illuminator off); 0Lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	Warm light distance 50 m, IR distance 50m
Illuminator Control	Auto; Manual
Lens	
Lens Type	Fixed-Focal
Focal Length	2.8mm/3.6mm
Max. Aperture	F1.6
Field of View	2.8mm Horizontal: 111°,Vertical:59°, Diagonal:134° 3.6mm Horizontal: 90°,Vertical:48°, Diagonal: 108°
Iris Type	Auto
Intelligence	
Smart Motion Detection	Yes
Perimeter Protection	Intrusion,Tripwire(Support the classification of Vehicle, Human and Non-Motor)
Face Detection	NA
Object Detection	NA
People Counting	NA
Heat Map	NA
AI Search	Work together with NVR
Video	
Compression	H.264H; H.264M; H.264B; H.265
Smart Compression	H.264H+; H.264M+; H.264B+; H.265+

Video Frame Rate	Main Stream: 6MP 3288 (H) × 1850 (V) (1 fps–25/30 fps)
	Sub Stream: D1 (1 fps–25/30 fps)
	Third Stream: 720P (1 fps–25/30 fps)
Stream Capability	3 Streams
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 3 Kbps–20480 Kbps
	H.265: 3 Kbps–20480 Kbps
Day/Night	Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
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
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(Optional)
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)
Mobile Client	IOS; Android
Port	
Audio Input	NA
Audio Output	NA
Alarm Input	NA
Alarm Output	NA
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	110 mm × Φ122 mm
Net Weight	630g

Dimensions(mm[inch])

