AMX-3IV381T-IR-ZAS



8MP IR Vari-focal Bullet Network Camera



WEC IMAXCAMPRO Series is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. HNC3IV181T-IR-ZAS provides intelligent, simple and inclusive products and solutions.

System Overview

With advanced deep learning algorithm, HNC3IV181T-IR-ZAS network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm, Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

With deep learning algorithm, 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) are largely reduced.

- 8-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160) @20 fps, and supports 2688 ×1520 (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 60 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out (Only ZAS supports); audio: 1 in, 1 out (Only ZAS supports); supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 (optional) protection.
- SMD Plus.



WDR

With advanced Wide Dynamic Range (WDR) technology, HNC3IV181T-IR-ZAS network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Cyber Security

HNC3IV181T-IR-ZAS network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification

Са	me	era	

Camera						
Image Senso	r	1/2.7" CMOS				
Max. Resolut	ion	3840 (H) × 2160 (V)				
ROM		128 MB				
RAM		256 MB				
Scanning Sys	tem	Progressive				
Electronic Sh	utter Speed	Auto/Manual	Auto/Manual 1/3 s-1/100,000 s			
Min. Illumina	ition	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination	Distance	60 m (196.85 ft) (IR)				
Illuminator C	n/Off Control	Auto; Manual				
Illuminator N	lumber	4 (IR LED)				
Pan/Tilt/Rota	ation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–3	360°			
Lens						
Lens Type		Motorized vari-focal				
Lens Mount		φ14				
Focal Length		2.7 mm-13.5 mm				
Max. Aperture		F1.5				
Field of View		H: 113°–31°; V: 58°–18°; D: 138°–36°				
Iris Control		Fixed	Fixed			
Close Focus Distance		0.8 m (2.62 ft)			
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	85.3 m (279.86 ft)	34.1 m (111.88 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)	
	Т	280.0 m (918.64 ft)	112.0 m (367.45 ft)	56.0 m (183.73 ft)	28.0 m (97.86 ft)	
Intelligen	ce					
IVS (Perimete	er Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)				
Smart Search	ı	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to ever videos				
Video						
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				
Smart Codec		Smart H.265+; Smart H.264+				
Video Frame Rate		Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@ (1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.				

Stream Capability	2 streams
Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 × 1728 (3072 × 1728); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; external alarm (Only- ZAS supports); SMD; security exception
Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
User/Host	20 (Total bandwidth: 48 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Browser	IE; Chrome; Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android

Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification			
Certification				
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07			
Port				
Audio Input	1 channel (RCA port) (Only- ZAS supports)			
Audio Output	1 channel (RCA port) (Only- ZAS supports)			
Alarm Input	1 channel in: 5mA 3V-5 VDC (Only- ZAS supports)			
Alarm Output	1 channel out: 300mA 12 VDC (Only- ZAS supports)			
Power				
Power Supply	12 VDC/PoE (802.3af)			
Power Consumption	-ZS: Basic: 2.7 W (12 VDC); 3.6 W (PoE); Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 7.8 W (12 VDC); 9.4 W (PoE) -ZAS: Basic: 2.7 W (12 VDC); 3.6 W (PoE); Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 7.9 W (12 VDC); 9.5 W (PoE)			
Environment				
Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)			
Operating Humidity	≤95%			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Storage Humidity	≤95%			
Protection	IP67; IK10 (optional)			
Structure				
Casing Material	Metal			
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)			
Net Weight	-ZS: 0.74 kg (1.63 lb) -ZAS: 0.77 kg (1.70 lb)			
Gross Weight	-ZS: 0.98 kg (2.16 lb) -ZAS: 1.01 kg (2.23 lb)			

Accessories

Optional:





PFA130-E Water-proof Junction Box

PFA152-E Pole Mount Bracket

Dimensions (mm[inch])



