

# AMX-3I249R1-IR-ZASPV

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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. HNC3I249R1-IR-ZASPV provides intelligent, simple and inclusive products and solutions.

### **Series Overview**

With advanced deep learning algorithm, HNC3I249R1-IR-ZASPV 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**

#### **Siren And Light Active Deterrence**

Siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

### **Smart Dual Illuminators**

Smart Dual Illuminators technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the warm light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

#### **SMD**

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.

- 4-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED; the max. IR illumination distance is 50 m and warm light distance is 40 m.
- ROI, SMART H.264+/H.265+, AI 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 function support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, 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; audio: 1 in, 1 out; supports max. 256 G Micro SD card; buit-in dual MICs; 1-ch speaker.
- · 12 VDC/PoE power supply.
- IP67, IK10 protection.
- Sound and light alarm (red and blue lights).
- SMD 3.0.
- One-click arming/disarming through alarm input.













## **One-tap Disarming**

One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

## **Cyber Security**

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, IK10, Wide Voltage)

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

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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								Main stream: 2688 × 1520@(1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1
Camera							Video Frame Rate	fps-30 fps) Third stream:1920 × 1080@(1 fps-30 fps)
Image Sensor		1/2.8" CMOS						*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Max. Resolution		2688 (H) × 1520 (V)					to the total encoding capacity	
ROM		128 MB					Stream Capability	3 streams 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296);
RAM		512 MB					Resolution	1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Scanning System		Progressive					Bit Rate Control	CBR/VBR
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Video Bit Rate	H.264: 3 kbps-8192 kbps H.265: 3 kbps-8192 kbps
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)					Day/Night	Auto (ICR)/Color/B/W
S/N Ratio		>56 dB					BLC	Yes
•		50 m (164.04 ft) (IR)					HLC	Yes
Illumination Distance		40 m (131.23 ft) (warm light)					WDR	120 dB
Illuminator On/Off Control		Auto/Manual					Scene Self-adaptation	Yes
Illuminator Number		2 (IR LED) 2 (warm light)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Patrii ov -90°					Gain Control	Auto; manual
Long		Rotation: 0°–360°					Noise Reduction	3D NR
Lens		Managing district forms					Motion Detection	OFF/ON (4 areas)
Lens Type		Motorized vari-focal					Region of Interest (RoI)	Yes (4 areas)
Mount Type		ф16					Image Stabilization	Electronic Image Stabilization (EIS)
Focal Length		2.7 mm-13.5 mm					Smart Illumination	Yes
Max. Aperture		F1.0					Defog	Yes
Field of View		Horizontal: 103°-33° Vertical: 54°-18° Diagonal: 124°-38°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
Iris Type		Fixed					Mirror	Yes
Close Focus Distance		1.5 m (4.92 ft)					Privacy Masking	4 areas
	Lens	Detect	Observe	Recognize	Identify		Audio	
DORI Distance	W	65.2 m (213.91 ft)	26.1 m (85.63 ft)	13.0 m (42.65 ft)	6.5 m (21.33 ft)		Built-in MIC	Yes
	T	186.6 m	74.6 m	37.3 m	18.7 m		Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
	Т	(612.20 ft)	(244.75 ft)	(122.38 ft)	(61.35 ft)		Alarm	
Professional, intelligent  Tripwire; intrusion (support the classification and				n and		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception	
IVS (Perimeter Protection)		accurate detection of vehicle and human)						
SMD 3.0		Less false alarm, longer detection distance  Work together with Smart NVR to perform refine					Network	detection, external damin, swib, seeding exception
Intelligent Search		intelligent search, event extraction and merging to event videos					Network	RJ-45 (10/100 Base-T)
Video							SDK and API	Yes
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; truste execution; trusted upgrade
Smart Codec		Smart H.265+; Smart H.264+						
Al Cadins		ALLI 205, ALLI 204						

AI H.265; AI H.264

Al Coding

Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone			
User/Host	20 (Total bandwidth: 72 M)			
Storage	FTP; SFTP; Micro SD card (support max. 256 G); NAS			
Browser	IE: IE8/9/11 Chrome Firefox			
Management Software	Smart PSS; DSS; DMSS			
Mobile Phone	iOS; Android			
Certification				
Certification	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14			
Port				
Audio Input	1 channel (RCA port)			
Audio Output	1 channel (RCA port)			
Alarm Input	1 channel in: 5 mA 3V–5 VDC			
Alarm Output	1 channel out: 300 mA 12 VDC			
Power				
Power Supply	12 VDC/PoE (802.3af)			
Power Consumption	Basic: 3.3 W (12 VDC); 4.7 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.7 W (12 VDC); 9 W (PoE)			
Environment				
Operating Conditions	$-30~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–22 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})/\text{Less}$ than 95% RH			
Storage Conditions	-40 °C to +60 °C (-40 °F to +140 °F)			
Protection Grade	IP67, IK10			
Structure				
Casing	Metal			
Dimensions	105 mm × Φ126.0 mm (4.13" × Φ4.96" )			
Net Weight	0.73 kg (1.61 lb)			

0.9 kg (1.98 lb)

Gross Weight

# Dimensions (mm[inch])



