

AI Smoke&Fire Detection Camera



Intellindust AI Smoke&Fire (S&F) Detection Camera uses professional in-house S&F Det. algorithm which integrated the optical imaging features of flames and smoke to provide the high-resolution and full-color images. The S&F AI Cam features its long-range recognition and high accuracy.



AI SMOKE&FIRE DETECTION CAMERA
INT-AIIPC-AX-B608N1W



AI SMOKE&FIRE DETECTION CAMERA
INT-AIIPC-AX-B608N1W-G

FEATURES



4MP

Ultra HD Resolution



Built-in Speaker and MIC

Supports two-way audio communication



Multiple Algorithms

Fire Det., smoke Det., intrusion Det., illegal parking Det..



Excellent Anti-Interference Performance

Integration of AI algorithms and flame spectral analysis



Local Storage

Supports up to 512GB MicroSD card storage



Wide Voltage Design

Supports DC12V-24V power input for enhanced safety



Indicator Lights

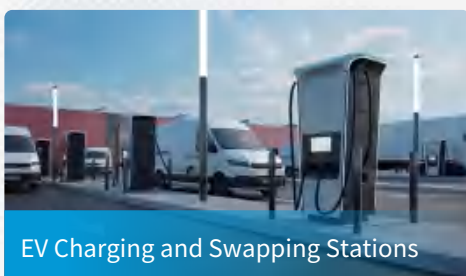
Built-in alarm and fault indicator lights



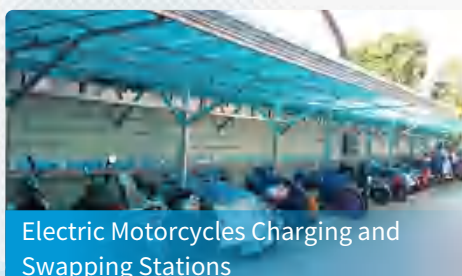
Professional Fire Protection Features

Alarm zone configuration, alarm mute, and alarm reset functions

SCENARIOS



EV Charging and Swapping Stations



Electric Motorcycles Charging and Swapping Stations



Warehouses



Heritage Buildings



Small and Medium Business Premises



Gas Stations

SPECIFICATIONS

Items	Details	Items	Details
Max Pixel	4MP/2560*1440	Alarm Output	1 Alarm Output (dry contact)
Backlight Compensation	Supported	RS485	1 RS485 Communication Connector
Wide Dynamic Range	≥120dB	Audio Input	1 Audio Input Connector
Strong Light Compression	Supported	Audio Output	1 Audio Output Connector
SNR	≥52dB	SD Expansion	1 MicroSD/TF slot (Up to 512GB)
Exposure	Auto	4G Expansion	1 4G lOT card slot (CAT4), optional for 4G model
Gain Control	Auto	Alarm Indicator	1 Alarm indicator light
Video Compression Standard	H.265/H.264/MJPEG	Fault Indicator	1 Fault indicator light
Audio	Mono, 8 kHz/48 kHz G.711/G.726/PCM/AAC-LC	Power Supply	Wide voltage DC12V ~DC24V
Network Connector	1*RJ45 10 M/100 M Adaptive Ethernet Port	POE	Supported
Alarm Input	1 Alarm Input (dry contact)	Operating Environment	-10°C~+60°C, ≤90%RH

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Low-Light Full-Color Camera Series


Beyond the limit on low light

 Large Aperture

 Large Sensor Format

 Pro AI Pre-ISP

 Low-Light Full-Color

 Motion Without Blur



No fill light needed
Work under 0.0005 Lux



Real-time HD
Full 2K frame rate,
low latency



Ultra low light
Motion without blur



Customized
Complete or module



Application scenarios

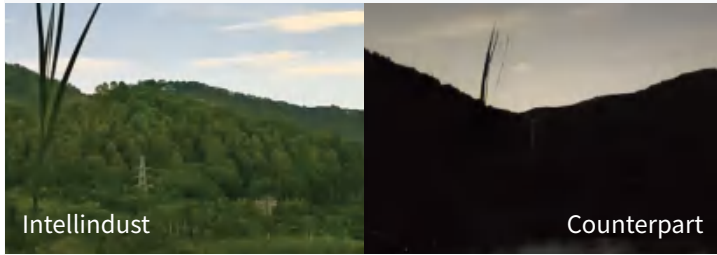
Dam



Traffic Road







Forest



Railway



Specification

Categories	Low-Light Full-Color Bullet Cam		Low-Light Full-Color Dome Cam		Low-Light Full-Color PTZ Cam
Models	INT-NVC-B306N1	INT-NVC-7D606A31N1	INT-NVC-8D606A31N1	INT-NVC-P606A40N1	
Image					
Image Sensor	1/1.8" Ultra Starlight CMOS				
NPU	≥2.5TOPS@INT8				
Max Resolution	4M, 2560*1440				
Max.Lux	0.0005Lux Full-Color				
Lens	6mm/12mm (Optional)	6.91mm~214.64mm, 31x Optical Zoom	6.91mm~214.64mm, 31x Optical Zoom	6.3mm~252mm, 40x Optical Zoom	
Aperture	F1.0	F1.3-F4.6	F1.3-F4.6	F1.4-F4.87	
Day/Night	Full Color				
Real-Time Frame Rate	15fps/25fps Live Streaming				
WDR	≥120dB				
Low Light Enhancement	Supported				
Protocols	SNMP, TCP/IP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, QoS, IPv6, UDP				
Protection	IP66,EMC:4KV, Surge Protection	IP66,EMC:6KV, Surge Protection	IP66,EMC:6KV, Surge Protection	IP66,EMC:4KV, Surge Protection	
Power Supply	Wide Voltage: DC12V~DC24V	Wide Voltage: DC12V~DC24V	Wide Voltage: DC12V~DC24V	AC24V	
Actual Power	≤10W	≤35W	≤35W	≤45W	
Environment	-10°C~+60°C, ≤90%RH	-40°C~+70°C, ≤90%RH	-40°C~+70°C, ≤90%RH	-30°C~+70°C, ≤90%RH	
Dimension	255x103x76mm	337x230x178mm	396x228x220mm	330x197x436mm	
Gross Weight	~5KG	~7KG	~8KG	~7.5KG	



AI SECURITY CAMERA

INT-AIIPC-B608N1W



INT-AIIPC-B608N1W featuring the in-house deep-learning algorithms, can perform the real-time analysis on the live stream and push alarms to users. Empowered by AI and high computing processor, it supports concurrent performance of multiple algorithms and provide diverse algorithms combination to meet different requirements of diverse scenarios.

FEATURES



High Computing Power

Chinese chips with excellent computing capacity



Multiple Algorithms

Concurrent analysis of multiple algorithms



Any Combination

Personalized combination meets different requirements



Flexible Application

Customized adjustment to meet diverse scenarios



Built-in Speaker and MIC

Supports two-way audio communication



4MP

Ultra HD Resolution



Warm Light

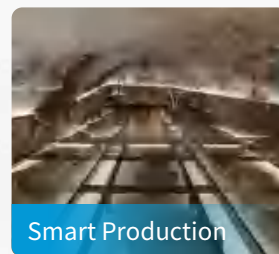
20m illumination range



IP66

Suitable for harsh, wet, or dusty indoor and outdoor environments

SCENARIOS



SPECIFICATIONS

Items	Sub-items	Details
AI	AI Algorithms	Human Det., No Hi-Vis Det., No helmet Det., Perimeter intrusion Det., People counting, Abnormal crowd Det., Absence Det., Supervisor departure Det., Fire extinguisher Det., Fire Det., Smoke Det., Fall Det., and Smoking Det.
General	Image Sensor	1/2.7" CMOS
	Day/Night	Color Day/Night (illumination)
	Backlight Compensation	Supported
	Wide Dynamic Range	≥120dB
	Strong Light Suppression	Supported
	SNR	≥52dB
	Defog	Supported
	HDR	Supported
	Exposure	Auto
	White Balance	Auto
	Gain Control	Auto
Lens	Focal Length	6mm (optional)
	Aperture	F2.0
	FOV(D×H×V)	Diagonal: 52.2°, Horizontal: 46.2°, Vertical: 27°
Illumination	Illumination Type	5 Warm Lights
	Illumination Range	20m
Video	Max Pixel	2560*1440
	Main Stream	Up to 2560*1440@25fps
	Sub Stream	Up to 1280*720@25fps
	Compression Standard	H.265/H.264/MJPEG
	Compression Bit rate	32 Kbps~6 Mbps
	H.265 Profile	Main Profile
	H.264 Profile	BaseLine Profile/Main Profile/High Profile
Connector	Network Connector	1*RJ45 10 M/100 M Adaptive Ethernet Port
	Power Supply Connector	1 Power Input Connector
	Reset Button	1 Reset Button via Tail Cable
General Standard	Power Supply	Wide voltage DC12V ~DC24V, 1A; POE
	Operating Environment	-10°C~+60°C, ≤90%RH
	Protection Level	EMC:4KV, Surge Protection
	Dust & Water Resistance	IP66

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AI BOX

INT-AI-BOX-C-8



The Int-AI-Box, an AI edge real-time video analysis device developed by Intellindust (Shenzhen) Co., Ltd. uses the latest high-computility NPU, with computility of up to 5TOPS (INT8). It is equipped with an embedded Ubuntu Linux operating system, featuring strong extensibility.

This device is integrated with high-precision algorithms based on computer vision and deep learning, as well as a smart video analysis platform. These algorithms cover various scenarios such as parks, communities, construction sites, and campuses, and can be customized according to specific scenes and needs. The smart video analysis platform supports front-end device management, real-time video preview, alarm notifications, evidence capture, online algorithm loading and optimization, large-screen data analysis display, etc. The device is easy to operate, plug-and-play, and meanwhile, and offers comprehensive northbound APIs to support advanced business applications.

PRODUCT FEATURES

ALGORITHMS

- High-rise Object Dropping Detection / Smoke and Fire Det / Face Mask Det / Safety Helmet Det / Hi-Vis Vest Det / Fall Det / Electric Bicycle Det / Leave Workstation Det / Sleep Det / Phone Calling Det / Using Phone Det / Taking Photos Det / Smoking Det / Zone Intrusion Det / Vehicle Parking Violation Det / Passenger Flow Statistics / Person Count / Zone Overpopulation / Zone Insufficient N.B. of People / Boundary Intrusion Det / Working Uniform Det / Fire Truck Passage Occupancy / Camera Abnormal Displacement / Area No-stay Det / Person Zone Lingering Det / Zone Abnormal N.B. of People / Boundary Crossing (Directional) Det / Ground Garbage Det / Indoor Fire Escape Passage Occupancy Det / Traffic Vehicle Counting / Person Attribute / Vehicle Attribute / Traffic Congestion Detection.

SPECIFICATIONS

- 5TOPS INT8 peak computility.
- Real-time intelligent analysis of 8-channel video streams.
- Hardware decoding capability for 8-channel high-definition video streams.
- 8G of memory, 128GB eMMC storage.
- On-board interfaces including HDMI, mSATA, USB3.0, USB2.0, RS485, RS232, etc.

HIGHLIGHTS

- Supports 8 algorithms concurrently being loaded in a single camera.
- Supports smart algorithm task-polling mode.
- Supports up to 8 cameras, executing 8 AI tasks concurrently. If total tasks exceed 8, they can be cycled through loop-run mode.
- Supports at least 10,000 face-database.
- Leverages INT8 high-precision quantization, it has higher throughput and energy efficiency than mainstream industry intelligent computing platforms.
- Adaptable to a variety of high-precision AI algorithms, provides a cost-effective edge computing solution tailored for scenarios such as intelligent communities, smart parks, and smart construction sites, etc.

SPECIFICATIONS

INT-AIBOX-C-8

Type	Main Parameters	
NAME	Intelligent Edge Analysis Box	
CHIP	NPU	5TOPS
	CPU	Cortex-A76 + Cortex-A55 Octa-core 2.4GHz
CHANNEL	Supports executing 8 algorithm analysis tasks concurrently	
VIDEO/IMAGE ENCODING/ DECONDING	Decoding	Supports H.265/H.264/AV1/VPP/AVS2 video decoding, up to 8K60FPS
	Encoding	Supports H.264/H.265 video encoding, up to 8K30FPS
MEMORY and STORAGE	Memory	8GB
	Storage	128GB eMMC
EXTERNAL INTERFACES	Network port	10/100/1000Mbps adaptive *2
	USB	USB3.0 *2 / USB2.0 *3
	Display	HDMI *1
	Audio	Audio interface *1
	Other Interfaces	TF *1 / RS - 485 *2 / Digital quantity *4 / Alarm input *2
DIMENSION	D*W*H/mm	235*150*62.5
POWER SUPPLY and CONSUMPTION	Supply	DC+12V/2A
	Consumption	~8W (subject to specific configuration)
ENVIRONMENT	Supports a temperature range from - 20°C to + 70°C	
SYSTEM	Ubuntu Linux	
SOFTWARE PLATFORM	Supports international languages - English; Supports free switching between basic mode and visualization mode; Supports 1/9-screen real-time preview; Supports multiple split-screens display; Supports multiple types of dynamic data analysis large-screen display; Supports closed-loop function to deal with alarm events; Supports multiple types of front-end device management; Supports algorithm configuration and algorithm analysis task management; Supports online installation, loading, and upgrading of algorithms; Supports platform-logo/name self-defined placement; Supports adding, modifying, and deleting scene maps; Supports loading maps to replace on-site scene images; Supports real-time online annotation of monitoring in the map; Supports role and authority, user online management; Supports detailed algorithm parameter configuration, detection area ROI / user-defined label and other functions (unlimited number of ROIs, ROI polygon configuration).	

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