VIRUNI

VN-H4MPAIDO-IPC

High-end 4MP Motorized Varifocal Dome Camera with AI



Launched by Viruni Technology, Viruni is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

With advanced deep learning algorithm, Viruni Series network camera supports various intelligent functions and satisfies the requirements in different scenes. The camera can accurately recognize person, vehicle, and non-motor vehicle, face, and liveness. This series camera has ultra starlight night version effect, and works with ultra-low stream. It supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Viruni a 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.

Starlight+

With advanced image processing technology, optical technology, and image sensor of large target surface, Viruni Starlight+ technology can provide clear colorful video in the environment of ultra-low illuminance. It applies to various environments of low illuminance.

Video Metadata

With deep learning algorithm, Viruni Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

• 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.

- Outputs max. 4 MP (2688 × 1520)@50/60 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Built-in IR LED, and the max. illumination distance is 40 m.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports video metadata, face detection,face recognition,people counting, perimeter protection,etc.
- Supports P-Iris, the camera can control the iris more precisely for better image effect.
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485, BNC, supports max. 256 G Micro SD card.
- 12 VDC/24 VAC/PoE power supply (the power ports are different depending on the power supply).
- · IP67, IK10 protection grade.
- \cdot 12 VDC power output, max. current 165 mA , easy for installation
- \cdot Anti-corrosion coating (optional).



Perimeter Protection

With deep learning algorithm, Viruni 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, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

People Counting

With deep learning algorithm, Viruni People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

Face Detection

Viruni Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

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Face Recognition

Viruni Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

Cyber Security

Viruni network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

Privacy Protection

Viruni Privacy Protection technology can mask the detected face and human body to protect the privacy of some special targets.

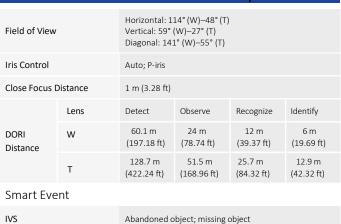
PPE Detection

With the PPE Detection function, the camera can detect attributes including face masks, helmets, glasses, safety vests, and the color of tops and bottoms, and determine whether PPE requirements are met. PPE compliance or non-compliance alarms can be triggered according to the alarm settings.

Face and Human Body Association

With deep learning algorithm, Viruni Face and Human Body Association technology detects face and human body of one person, captures them separatedly, selects the best image, and then associates them.

Technical Specification			
Camera			
Image Sensor	1/1.8" CMOS		
Max. Resolution	2688 (H) × 1520 (V)		
ROM	4 GB		
RAM	2 GB		
Scanning System	Progressive		
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s		
Min. Illumination	0.001 lux@F1.2 (Color, 30 IRE) 0.0002 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)		
S/N Ratio	>56 dB		
Illumination Distance	40 m (131.23 ft)		
Illuminator On/Off Control	Auto; Manual; Zoomprio		
Illuminator Number	3 (IR LED)		
Pan/Tilt/Rotation Range	Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°		
Lens			
Lens Type	Motorized vari-focal		
Lens Mount	Module interface		
Focal Length	2.7-12 mm		
Max. Aperture	F1.2		



Professional, intelligent

FIORESSIONAL, INTERINGE		
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection	
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting.	
Face Recognition	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one- inch photo; snapshot strategies (recognition priority and optimization snapshot); face angle filter; optimization time setting. Support 5 face databases; register one by one or in batches; support face recognition similarity settings and face comparison on the basis of 100,000 face databases.	
Face and Body Detection	There are two modes: General mode and PPE Detection. General mode: Supports enabling face detection and human detection at the same time, and alarms can be triggered. PPE Detection: Supports PPE detection, can detect attributes including face mask, safety helmet,glasses, and safety vest, top color and bottom color,and determine whether PPE requirements are met. Alarms can be triggered according to the alarm settings.	
People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year); queue management and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management.	
Video Metadata	Motor vehicle, non-motor vehicle, face, human detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: license plate, vehicle type, vehicle color, vehicle logo and other attributes : seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type and color, helmet. Human body attributes: top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	



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Network Port



Video		
Video Compression	H.265; H.264; H.264H; MJPEG (Only supported by the sub stream)	
Smart Codec	Smart H.265+; Smart H.264+	
Video Frame Rate	Main Stream: 2688 × 1520@ (1–50/60 fps) Sub stream: 704 × 576@ (1–25 fps); 704 × 480@ (1–30 fps) Third stream: 1920 × 1080@ (1–25/30 fps) Fourth stream: 1920 × 1080@ (1–25/30 fps) Fifth stream: 704 × 576@(1–25fps); 704 × 480@ (1–30 fps)	
Stream Capability	5 streams	
Resolution	4M (2688 × 1520); 3M (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-10240 kbps H.265: 12 kbps-9984 kbps	
Day/Night	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	140 dB	
Scene Self-adaptation (SSA)	Yes	
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)	
Image Stabilization	Electronic Image Stabilization (EIS)	
Smart Illumination	Yes	
Defog	Yes 0°/90°/180°/270° (Support 90°/270° with 2688 × 1520	
Image Rotation	resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Audio Compression	PCM; G.711A; G.711Mu; G.726; G.723	
Alarm		
Alarm Event	No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management	
Network		

RJ-45 (10/100/1000 Base-T)

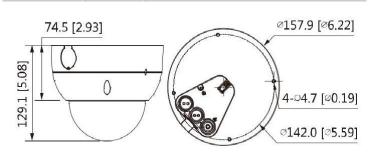
SDK and API Yes Cyber Security Video encryption; Firmware encryption; Configuration encryption; Dieget; WSSE, Account lockout; Security logs; IP/MAC filtering; Generation and importing of X509 certification; sylog; HTTPS; S02.1x; Trusted boot; Trusted execution; Trusted upgrade Network Protocol IP/4; IP/6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; STP; DHCP; ONS; DDNS, GoS; UPAP; NTP; Mutticast; ICMP; IGMP; NFS; SAMBA; PPPoG; SNMD Interoperability ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P User/Host 20 (Total bandwidth: 80M) Storage FTP; STP; Micro SD card (support max. 256 GB); NAS Browser IOS; Android Port EI: EfB and later Errefox. Firefox 48.0.2 and later Nadio leclient IOS; Android Port Ichannel (3-pin terminal with 2.54 mm clearance, with audio cable) Audio luput 1channel (3-pin terminal with 2.54 mm clearance, with audio cable) Audio Output 2 channels ui: 1,000 mA 30 VDC/500 mA 50 VDC Power I2 VDC/24 VAC/PoE+ (802.3a1) Basic power consumption; Max. stream + intelligent VAC); 7.37 W (P6) Max. power consumption; 3.3 W (12 VDC); 5.5 W (24 VAC); 7.37 W (P6) Max. power consumption; 3.3 W (12 VDC); 5.5 W (24 VAC); 7.37 W (P6) Max. power consumption; 3.3 W (12 VDC); 5.5 W (24 VAC); 7.37 W (P6) Max. power consumption; 3.3 W (12 VDC); 5.5 W (24 VAC); 7.37 W (P6) Max. power consumption; 3.3 W (12 VDC); 5.5 W (24 VAC); 7.37 W (P6) Max. power consumption; 3.3 W (12 VDC); 5.5 W (24 VAC); 7.5 S W (P6) Max. power consumption; 3.3 W (12 VDC); 5.5 W (24 VAC); 7.5 S W (P6) Max. pow			
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Casing Metal + plastic Product Dimensions 129.1 mm × Φ157.9 mm (5.08" × Φ6.22") Net Weight 1.5 kg (3.31 lb)	Protection Grade	IP67, IK10, Anti-Corrosion Protection: NEMA 4X(optional)	
Product Dimensions 129.1 mm × Φ157.9 mm (5.08" × Φ6.22") Net Weight 1.5 kg (3.31 lb)	Structure		
Net Weight 1.5 kg (3.31 lb)	Casing	Metal + plastic	
0	Product Dimensions	129.1 mm × Φ157.9 mm (5.08" × Φ6.22")	
Gross Weight 1.6 kg (3.53 lb)	0		
	Gross Weight	1.6 kg (3.53 lb)	

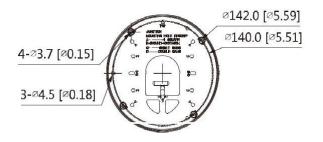


Ordering Information

Туре	Model	Description
4MP CAMERA	VN-H4MPAIDO-IPC	High-end 4MP Motorized Varifocal Dome Camera with AI
Accessories (Optional)	VNA783	Sun Shade
	VNB221W	Wall Mount
	VNA162-E	Pole Mount
	VNA111	Mount Adapter
	VNB310C	Ceiling Mount
	VNM330D	12 VDC 2A Power Adapter
	VNM910-E	Integrated Mount Tester
	VNP110	MicroSD Memory Card

Dimensions (mm[inch])





Accessories

Optional:



VNA783 Sun Shade



VNB221W Wall Mount





VNA111 Mount Adapter



VNM910-E Integrated Mount Tester



VNB310C Ceiling Mount



MicroSD Memory Card



VNM330D 12 VDC 2A Power Adapter