

VN-M4MPOUT-PTZ

Mid-range 4MP PTZ Outdoor IP Camera



Launched by Viruni Technology, 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. Based on Viruni's advanced technologies, provides intelligent, simple and inclusive products and solutions.

System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight Technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day.

Functions

Starlight Technology

With advanced image processing technology and optical technology, Viruni Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for thetargets. Improves alarm accuracy.

- 1/2.8" STARVIS™ CMOS.
- 25x optical zoom.
- · Starlight technology.
- · Max. 25/30fps@4M.
- IR distance up to 100 m.
- · Perimeter protection.
- · Face detection.
- · Quick Pick.
- SMD 4.0.
- · IP66.













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.

SMD 4.0

Viruni Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an Al NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



			Supports face detection, optimization, tracking,	
Technical Specification		See Detection	capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions (angry, sad, hate,	
Camera	. 6 10 - 11 - 12			
Image Sensor	1/2.8" CMOS	OS Face Detection		
Pixel			photo. Capturing strategies include real-time capturing, optimization, and quality first	
Max. Resolution	2560 (H) × 1440 (V)			
ROM	4 GB	SMD	Yes	
RAM	1 GB	Quick Pick	Yes	
Electronic Shutter Speed	1/1 s-1/30,000 s	Video		
Scanning System	Progressive	Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+	
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux@F1.6 (IR light on)	Streaming Capability	3 streams 4M (2560 × 1440); 3M (2048 × 1536); 3M (2304 ×	
Illumination Distance	100 m (328.08 ft) (IR)	Resolution	1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)	
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p @(1-25/30 fps)	
Illuminator Number	4 (IR)	video Frame Rate	Sub stream 1: D1/CIF@ (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p @(1–25/30 fps)	
Lens		Bit Rate Control	CBR/VBR	
Focal Length	5 mm-125 mm	Video Bit Rate	H264: 96–14,848 Kbps H265: 38–8,960 Kbps	
Max. Aperture	F1.6–F3.6 H: 51.9°–3.0°;	Day/Night	Auto (ICR)/Color/B/W	
Field of View	V: 39.7°–2.2°; D: 63.1°–3.7°	BLC	Yes	
Optical Zoom	25×	WDR	120 dB	
Focus Control	Auto; semi-auto; manual	HLC	Yes	
Close Focus Distance	0.1 m-0.5 m (0.33 ft-1.64 ft)	White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp	
Iris Control	Auto	Gain Control	Auto; manual	
	Detect Observe Recognize Identify	Noise Reduction	2D NR; 3D NR	
DORI Distance	2500 m 987.5 m 500 m 250 m (8208.10 ft) (3239.83 ft) (1640.42 ft) (820.21 ft)	Motion Detection	Yes	
PTZ		Region of Interest (RoI)	Yes	
Pan/Tilt Range	Pan: 0° to 360° endless	Image Stabilization	Electronic (EIS)	
rany me Kange	Tilt: -15° to +90°, auto flip 180° Pan: 0.1°-200°/s	Defog	Electronic	
Manual Control Speed	Tilt: 0.1°–120°/s	Digital Zoom	16×	
Preset Speed	Pan: 240°/s Tilt: 200°/s	Image Rotation	180°	
Preset	300	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view	
Tour	8 (up to 32 presets per tour)	S/N Ratio	≥ 55 dB	
Pattern	5	Audio	udio	
Scan	5	Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723	
Power-off Memory	Yes	Network		
Idle Motion	Pattern; Preset; Scan; Tour	Network Port	1×RJ-45 (10/100 Base-T)	
Intelligence			FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE;	
IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Network Protocol	NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP	



Interoperability	RTMP; CGI; SDK; ONVIF (Profile S&G&T); P2P			
Streaming Method	Unicast/Multicast			
User/Host	20 (total bandwidth: 64 M)			
Storage	Micro SD card (512 GB); FTP/SFTP; NAS			
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions			
Management Software	DSS Pro; DMSS			
Mobile Client	iOS; Android			
Port				
Audio Input	1 channel (LINE IN, bare wire)			
Audio Output	1 channel (LINE OUT,bare wire)			
Alarm Linkage	Capture; recording; send email; preset; tour; pattern; alarm digital input			
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection			
Alarm I/O	2/1			
Audio I/O	1/1			
Power				
Power Supply	12 VDC/3 A ± 10% PoE+ (802.3at)			
Power Consumption	Basic: 9 W Max.: 20 W (Illuminator+alarm+PTZ)			
Environment				
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)			
Operating Humidity	≤ 95%			
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)			
Storage Humidity	≤ 95%			
Protection	IP66, TVS 6000 V lightning proof; surge protection; voltage transient protection			
Structure				
Product Dimensions	270.4 mm × Φ160 mm (10.65" × Φ6.30")			
Net Weight	2.4 kg (5.29 lb)			
Gross Weight	3.9 kg (8.60 lb)			

Ordering Information				
Туре	Model	Description		
4MP Camera	VN-M4MPOUT-PTZ	Mid-range 4MP PTZ Outdoor IP Camera		
Accessories	VNB315W	Wall Mount Bracket		
	DC 12 V/3A	Power Adapter		
	VNA130	Junction Box		
	VNA121	Mount Adapter		
	VNB310C	Ceiling Mount Bracket		
	VNB311C	Ceiling Mount Bracket		
	VNA161	Corner Mount Bracket		
	VNB313S	Parapet Mount Bracket		
	VNB311S-E	Plane Mount Bracket		
	VNA160	Pole Mount Bracket		

Accessories

Included:



VNB315W Wall Mount Bracket

Optional:



DC 12 V/3A Power Adapter



VNA130 Junction Box



VNA121 Mount Adapter



VNB310C Ceiling Mount Bracket



VNB311C Ceiling Mount Bracket



VNA161 Corner Mount Bracket



VNB313S Parapet Mount Bracket



VNB311S-E Plane Mount Bracket



VNA160 Pole Mount Bracket



Dimensions (mm[inch])

