

PV-1228A

8MP Full-color Bullet Built-in-Mic



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

Series Overview

With advanced deep learning algorithm , **Primavera** 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. In addition, with full-color technology, it provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm , **Primavera** 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, **Primavera** 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.

Full-color

With high-performance sensor and large aperture lens, Primavera Full-color technology can display clear colorful image in the environment of ultra-low illuminance . With this photosensitivity technology , the camera can capture more available light, and display more colorful image details.

Siren and Light Active Deterrence

Primavera siren and light active deterrence network camera supports 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

- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max.8MP (3840 \times 2160) @20 fps (Al function enabled by default) and supports 8MP (3840 \times 2160) @25/30 fps (with Al function disabled)
- · H.265 codec, high compression rate, low bit rate
- Built-in warm illuminator, and the max. illumination distance: 30 m
- ROI, Smart H.265+/Smart H.264+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital
 watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection
- Supports sound and light alarm linkage. When an alarm is triggered, the camera links sound alarm and light flashing
- Supports one-tap disarming. You can disarm the events of alarm output, sending email, audio, and light in the configured period
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and speaker
- 12V DC/PoE power supply
- IP67 protection
- SMD Plus
- · Red and blue flashlight alarm













Cyber Security

Primavera 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.

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 works normal after soaking in 1 m deep water for 30 minutes.

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

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Stream Capability

3 streams

Technical Specification								8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 ×
Camera						Resolution	1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 ×	
Image Sensor		1/2.8" 8Megapixel progressive CMOS						960); 720p (1280 × 720); D1(704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		3840(H) × 2160 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
RAM		512 MB					Day/Night	Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					HLC	Yes
Min. Illumination		0.007 Lux @ F1.4					WDR	120 dB
S/N Ratio		> 56 dB					Scene Self-adaptation	Vec
Illumination Distance		30 m (98.4 ft)					(SSA)	Yes
Illuminator (On/Off Control	Auto/Manual					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illuminator N	Number	1 (Warm light)					Gain Control	Auto/Manual
		Pan: 0°–360°					Noise Reduction	3D NR
Pan/Tilt/Rot	ation Range	Tilt: 0°–78° Rotation: 0°–360°					Motion Detection	OFF/ON (4 areas)
Lens							Region of Interest (RoI)	Yes (4 areas)
		Fixed-focal					Smart Illumination	Yes
Lens Type Mount Type		M12					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support with 1920×1080 resolution and lower)
Focal Length		2.8 mm; 3.6 mm					Mirror	Yes
Max. Aperture		F1.4					Privacy Masking	available
Field of View		2.8 mm: Horizontal 107° × Vertical 56° × Diagonal 127°					Audio	
		3.6 mm: Horizontal 89° × Vertical 46° × Diagonal 102°					Built-in MIC	Yes
Iris Type		2.8 mm: 1.5 m (4.9 ft)					Audio Compression	PCM, G.711a, G.711Mu, G726
Close Focus Distance		3.6 mm: 2.2m (7.2 ft)					Alarm	
	Lens	Detect	Observe	Recognize	Identify		Alarm Event	No SD card; SD card full; SD card error; service life warning (supported by Dahua card); network disconnection; IP conflict; illegal access; motion
DORI Distance	2.8 mm	87.7m (287.7 ft)	35.1 m (115.2 ft)	17.5m (57.4 ft)	8.8m (28.8 ft)			
	3.6 mm	110.3m (361.8 ft)	44.1m (144.7ft)	22.1m (72.5 ft)	11m (36 ft)			detection; video tampering; tripwire; intrusion; audio detection; voltage detection; external alarm; SMD; safety exception; light alarm; sound alarm (11 built-in sounds
Professio	nal, intellige							and custom voices importing)importing)
	,	Tripwire; intrusion (support the classification and					Network	
IVS (Perimeter Protection)		accurate detection of vehicle and human)					Network	RJ-45 (10/100 Base-T)
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.					SDK and API	Yes
Video							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
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Cyber Security	Video encryption; firmware encryption; configuration
Smart Codec		Smart H.265+/Smart H.264+						encryption; Digest; WSSE; account lockout; security log: IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; truste execution; trusted upgrade
Video Frame Rate		Main stream: 3840 × 2160 @(1–20 fps by default) 3840 × 2160 @(1–25/30 fps with AI function disabled) sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
		fps) third stream:1280 × 1080 @ (1–25/30 fps)					User/Host	20 (Total bandwidth: 80 M)
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Browser	IE: IE8 and later Chrome Firefox Safari: Safari 12 and later				
Management Software	Xmeye: Xmeye pro, Primavera: Primavera view				
Mobile Phone	IOS; Android				
Certification					
Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B				
Port					
Audio Input	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: 5mA 3V–5V DC				
Alarm Output	1 channel out: 300mA 12V DC				
Power					
Power Supply	12V DC/PoE (802.3af)				
Power Consumption	Basic power consumption: 3.1W (DC12V); 3.5W (POE) Max. power consumption (WDR + H.265 + red and blue lights flashing alternately + warm light + sound alarm): 7.8W (DC12V); 8.2W (POE)				
Environment					
Operating Conditions	-40 °C to $+60$ °C (-40 °F to $+140$ °F)/Less than 95% RH				
Storage Conditions	-40°C to +60°C (-40°F to +140°F)				
Protection Grade	IP67				
Structure					
Casing	Metal				
Dimensions	Ф122.0 mm × 110.9 mm (4.8" × 4.4")				
Net Weight	754 g (1.7 lb)				
Gross Weight	915 g (2.0 lb)				

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Ordering Information						
Type Model	Description					

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Туре	Model	Description					
	PV-1228A	8MP Full-color Bullet Built-in- Mic , PAL					
	PV-1228A	8MP Full-color Bullet Built-in- Mic, NTSC					
8MP Camera	PV-1228A	8MP Full-color Bullet Built-in- Mic, PAL					
	PV-1228A	8MP Full-color Bullet Built-in- Mic, NTSC					
	PFA137	Junction Box					

Dimensions (mm[inch])

