

# PIX-NBV817SDETDI

8MP Smart Dual Illumination Active Deterrence Vari-focal Bullet Network Camera



## Series Overview

With advanced deep learning algorithm, Pixvideo 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

Pixvideo 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

Pixvideo 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 4.0

Pixvideo 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 AI 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.

- 8-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160) @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; built-in dual MICs; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- Sound and light alarm (red and blue lights).
- SMD 4.0.
- One-click arming/disarming through alarm input.



### One-tap Disarming

Pixvideo 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

Pixvideo 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, wide voltage)

**IP67:** The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally 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.

## Technical Specification

Camera					
Image Sensor	1/2.8" CMOS				
Max. Resolution	3840 (H) × 2160 (V)				
ROM	128 MB				
RAM	1 GB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s				
Min. Illumination	0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)				
S/N Ratio	>56 dB				
Illumination Distance	50 m (164.04 ft) (IR) 40 m (131.23 ft) (warm light)				
Illuminator On/Off Control	Auto/Manual				
Illuminator Number	2 (IR LED) 2 (warm light)				
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens					
Lens Type	Motorized vari-focal				
Mount Type	φ16				
Focal Length	2.7 mm–13.5 mm				
Max. Aperture	F1.0				
Field of View	Horizontal: 108°–34° Vertical: 56°–19° Diagonal: 130°–39°				
Iris Type	Fixed				
Close Focus Distance	1.5 m (4.92 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	89.9 m (294.95 ft)	36.0 m (118.11 ft)	18.0 m (59.06 ft)	9.0 m (29.53 ft)
	T	257.4 m (844.49 ft)	103.0 m (337.93 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)
Professional, intelligent					
IVS (Perimeter Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)				
SMD 4.0	Less false alarm, longer detection distance				
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events				
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.				
Video					
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)				
Smart Codec	Smart H.265+; Smart H.264+				
AI Coding	AI H.265; AI H.264				
Video Frame Rate	Main stream: 3840 × 2160@ (1–30 fps) Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30 fps) Third stream: 1920 × 1080@ (1–30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity				
Stream Capability	3 streams				
Resolution	8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 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: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps				
Day/Night	Auto (ICR)/Color/B/W				
BLC	Yes				
HLC	Yes				
WDR	120 dB				
Scene Self-adaptation	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)				
Region of Interest (RoI)	Yes (4 areas)				
Image Stabilization	Electronic Image Stabilization (EIS)				
Smart Illumination	Yes				
Defog	Yes				
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)				
Mirror	Yes				
Privacy Masking	4 areas				
Alarm					
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				
Network					
Network	RJ-45 (10/100 Base-T)				
SDK and API	Yes				
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; trusted execution; trusted upgrade				

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	SmartPSS Lite; 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
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## Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V-5 VDC
Alarm Output	1 channel out: 300mA 12 VDC

## Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic: 4.3 W (12 VDC); 5.5 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.9 W (12 VDC); 9.8 W (PoE)

## Environment

Operating Conditions	-30 °C to +60 °C (-22 °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 + plastic
Dimensions	288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72" × 3.33") (L × W × H)
Net Weight	1.05 kg (2.31 lb)
Gross Weight	1.35 kg (2.98 lb)

## Accessories

Optional:



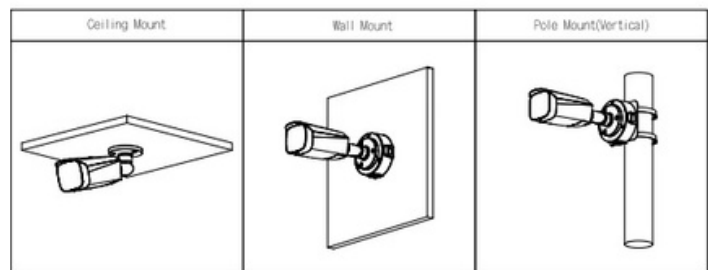
**PIX-ACM212**  
Junction Box



**PIX-ACM221**  
Junction Box



**PIX-ACM262**  
Pole Mount Bracket



## Dimensions (mm[inch])

