

PIX-NVX081K4SSD

8CH Penta-brid 4K Value/5MP Mini 1U 1HDD Digital Video Recorder





SERIES OVERVIEW

Pixvideo Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, PIX-NVX087M1SSD model featuring max.full-channel SMD Plus to benefit customers from Al upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

FUNCTIONS

Face Recognition

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

*Face Recognition conflicts with SMD Plus and Perimeter Protection.

Perimeter Protection

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

SMD Plus

With intelligent algorithm, Pixvideo 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.

- H.265+/H.265 dual-stream video compression.
- Supports Full-channel Al Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 16 channels IP camera inputs, each channel up to 8MP; Max
 128 Mbps incoming bandwidth.
- Up to 8 channels video stream (analog channel) Perimeter Protection.
- Up to 8 channels video stream (analog channel) SMD Plus.
- Up to 2 channels video stream (analog channel) human face recognition.
- · IoT & POS functionalities.

Scheduled Al

This technology allows multiple AI functions to be set for one channel based on time frames, eliminating the need to manually configure the system to switch between functions each time. Scheduled AI greatly increases efficiency and widens the number of scenarios that the device can be used in.

Smart Dual Illuminators

With Smart Dual Illuminators technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of Al-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual illumination technology can meet the requirements of a wide variety of scenes.

One-click Arming/Disarming

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

Customizable Alarm Audio

Designed for your convenience, the TiOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

Al Coding

Compared with H.265/H.264, Al coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

Audio over Coax

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

PIX-NVX081K4SSD



System Video Output No. 1000-1000-1000-1000-1000-1000-1000-100	Technical Specificati	on		1 HDMI, 1 VGA
Main Processor Industrials grade processor "Simulationcon/Intergrences video sources adjust for "Channel (MINE) accompliance of Persisters (MINE) according to Persisters (MINE) acc			Video Output	
Operating System Chebodded Livoux Multi-screen Display When IP extension mode not enabled: 1/4/79/9 Operating Interface Will Stock GGI GI Third-party Camera Movile Protection Access to Mode Protection Access to Mode Protection Movile Protection All Codings Swart H2/26 ty H2/65 Smart H2/26 ty H2/65 Smart H2/26 ty H2/26 Pin 200 Smart M2/26 Pin 200 Smart M2/		Industrial-grade processor		*Simultaneous/heterogeneous video sources output for
Operating interface Velocitation Multi-Accress upgains When the Pertons commonder enabled is 14/(RPV)/16 Perimitere Protection Advanced Models 2 charmels, 10 PVS for each channel of Demonstration of Charmels of Demonstration of Charmels (10 PM) (Charmels) (10 PM) for each channel of Demonstration of Charmels (10 PM) (Charmels) (10 PM) (Char	Operating System	Embedded Linux		
Perfinence Protection Perfinence Advanced Models 2 channels 10 NS for each channel Campred Not Performance All Proceding Number of Channels Compression All Coding Smart 1265 + 12.05; Smart 1264 + 12.64 + 12.64	Operating Interface	Web; Local GUI	Multi-screen Display	
by Recorder (Number of Chamels) Owner of Section Annels Owner	Perimeter Protection			ONVIF; Panasonic; Sony; Axis; Arecont; Samsung
Cranels Section Sect	by Recorder (Number of		Compression Stand	ard
Audio Compression CyTis; C			Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264
Second Petrol Manner of All by Recorder (Number of Channels)	Face Detection		Audio Compression	G.711a; G.711u; PCM
Record (Number of Channels) Channels (up to 12 face images/s each channel) Mobile Phone Access Disc, Android	Face Attributes		Network	
Channels Mobile Phone Access 105, Android	Performance of AI by	2 channels (up to 12 face images/s each channel))	Network Protocol	
Face Database Capacity cerificates (property of the property o			Mobile Phone Access	IOS; Android
Total Name, gender, birthday, address, certificate type, address mode Network Mode Single-address mode	Face Recognition		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
Face Recognition Performance of Al by Recorder (Mumber of Channels) SMD Plus 8 channels Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change Audio and Video Analog Camera Input 1 C.VV. AKEP 57(0) fips. 5 MPR 2015 (ps. 5 MPR 2015 (ps. 5 MPR 2015) (ps. 5	Face Database Capacity		Browser	Chrome, IE9 or later, Firefox
Performance of Al by Recorder (Number of Channels) SMD Plus SMD Plus Schannels Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change Audio and Video Audio and Video Audio and Video Audio and Video Audio and Plus Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change Audio and Video Audio and Vid			Network Mode	Single-address mode
Performance of Al by Recorder (Nimber of Channels) SMD Plus Schannels: Secondary filtering for human and motor vehicle; reducing false alarms caused by leaves, rain and light general playback, general playback, tag playback, smart playback, tag playback, smart playback, tag playback, smart playback, general playback, tag playback, smart playback, tag playback, s	Face Recognition		Recording Playback	
SMD Plus 8 channels: Secondary filtering for human and motor vehicle, reducing fase alarms caused by leaves, rain and lighting condition change Audio and Video Analog Camera Input 8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect 1. CVI: 4K@25/30 fps; 6 MP@20 fps; 5 MP@20 fps; 1 MP@25/30 fps;	Performance of Al by		Record Mode	General, motion detection; intelligent; alarm; POS
SMD Plus by Recorder elicle, reducing false alarms caused by leaves, rain and lighting condition change Audio and Video Analog Camera Input B 8 NC ports, supports HDCVI/AHD/TVI/CVBS autodetect 1. CVI: 4K@25/30 fps; 6 MP@20 fps; 5 MP@20 fps; 5 MP@20 fps; 5 MP@25/30 fps; 1080p.025/30 fps; 7 Cypog.5/30 fps; 7 Cypog.	Channels)		Recording Playback	1/4/9
SMD Plus by Recorder lighting condition change Audio and Video Alarm Audio and Video Separal Alarm Motion detection; video loss; tampering; local alarm detection detect on	SMD Plus		Backup Method	USB device and network
Audio and Video Analog Camera Input 8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect	SMD Plus by Recorder	vehicle, reducing false alarms caused by leaves, rain and	Playback Mode	
Analog Camera Input Stance Stance			Alarm	
Anamaly Alarm No disk; storage error; disk full; camera offline; IP conflict Camera Input Camera Input	Addio and video	8 RNC ports supports HDCVI/AHD/TVI/CVRS auto-	General Alarm	Motion detection; video loss; tampering; local alarm
S MP@25 fps; 4 MP@25/30 fps; 12080p@25/30 fps; 720p@50/60 fps.2. TVI: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 3 MP@25/30 fps; 12080p@25/30 fps; 3 MP@25/30 fps; 12080p@25/30 fps; 3 MP@25/30 fps; 18080p@25/30 fps; 12080p@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps: 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps: 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fp	Analog Camera Input	detect	Anomaly Alarm	
Sh@20 (ps; 4 M@25/30 (ps; 3 MP@25/30 (ps; 3	Camera Input	5 MP@25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@50/60 fps.2. TVI: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.3. AHD: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps;	Intelligent Alarm	Face detection; face recognition; perimeter protection
Ports Port			Alarm Linkage	output; access controller; voice prompt; buzzer; log;
B P channels by default + 8 channels (analog channels are converted to IP channels) Audio Input 8-channel RCA 8-channel RCA 8-channel BNC (Coaxial Audio)		Up to 16 channels of IPC access 8 IP channels by default + 8 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the Al Function (IVS, SMD, FACE) will be	Ports	
128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled. Main stream:	IP Camera Input		Audio Input	
channels, the Al Function (IVS, SMD, FACE) will be disabled. Main stream: 4K@(1fps-7fps); 6 MP@(1fps-10fps); 5 MP@(1fps-12fps); 4K-N, 4 MP, 3 MP@(1fps-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps-25/30fps) Pual-stream Yes RS-485 1 port, for PTZ control USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) Audio Sampling 8 kHz, 16 bit HDMI 4			Audio Output	1-channel RCA
Holing Capacity Main stream: 4K@(1fps-7fps); 6 MP@(1fps-12fps); 4K-N, 4 MP, 3 MP@(1fps-12fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps- 25/30fps) Pual-stream Yes RS-485 Puprt, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature. RS-485 Video Bit Rate Audio Sampling 8 kHz, 16 bit Audio Bit Rate 64 kbps HDMI 1 1 1 1 1 1 1 1 1 1 1 1 1			Two-way Talk	Yes (share the same audio input with the first channel)
AK-N, 4 MP, 3 MP@(1fps-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps-25/30fps) Dual-stream Yes RS-485 1 port, for PTZ control Video Bit Rate Audio Sampling 8 kHz, 16 bit HDMI 1 4 HDMI 1 4 HDMI 1 5 HDMI 1 4 HDMI 1	Encoding Capacity	Main stream: 4K@(1fps-7fps); 6 MP@(1fps-10fps); 5 MP@(1fps-12fps); 4K-N, 4 MP, 3 MP@(1fps-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps-	Alarm Input	8-channels
960H, D1, CIF@(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps- 25/30fps) HDD Interface 1 SATA port, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature. RS-485 Video Bit Rate 32 kbps-6144 kbps USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) Audio Sampling 8 kHz, 16 bit HDMI 1			Alarm Output	3-channels
Dual-stream Yes RS-485 1 port, for PTZ control Video Bit Rate 32 kbps-6144 kbps USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) Audio Sampling 8 kHz, 16 bit HDMI 1 Audio Bit Rate 64 kbps HDMI 1			HDD Interface	maximum HDD capacity varies with environment
Video Bit Rate 32 kbps-6144 kbps USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) Audio Sampling 8 kHz, 16 bit HDMI 1 Audio Bit Rate 64 kbps HDMI 1	Dual-stream	Yes	RS-485	
Audio Sampling 8 kHz, 16 bit HDMI 1 Audio Bit Rate 64 kbps 1	Video Bit Rate	32 kbps-6144 kbps		
Audio Bit Rate 64 kbps	Audio Sampling	8 kHz, 16 bit		
	Audio Bit Rate	64 kbps	VGA	1

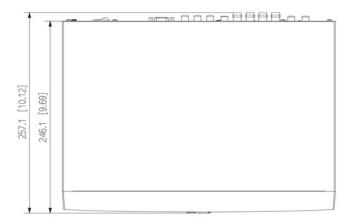
PIX-NVX081K4SSD



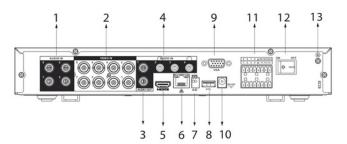
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)		
General			
Power Supply	DC 12V, 2A		
Power Consumption	<10 W (without HDD)		
Net Weight	1.20 kg (2.65 lb)		
Gross Weight	2.00 kg (4.41 lb)		
Product Dimensions	325.0 mm \times 257.1 mm \times 55.0 mm (12.80" \times 10.12" \times 2.17") (W \times D \times H)		
Packaging Dimensions	372.0 mm × 117.0 mm × 308.0 mm (14.65" × 4.61" × 12.13") (W × D × H)		
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
Operating Humidity	10%-90% (RH)		
Installation	Rack or desktop		
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B		

Dimensions (mm[inch])





Panels



- 1 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector
- 5 HDMI Port
- 7 RS-485 Port
- 9 VGA Port
- 11 Alarm In/Out
- 13 Ground

- 2 VIDEO IN
- 4 AU DIO IN, RCA Connector
- 6 Network Port
- 8 USB Port
- 10 Power Input
- 12 Power Switch