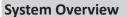
PDVR-E8W1N2-AI

Mini 1U 8 Channel DVR



- · H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- · Up to 2 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



The PDVR-E8W1N2-AI brings AI and expanded hybrid-IP functionality to our entry-level 1080p HD-Over-Coax lineup. Using coax, the PDVR-E8W1N2-AI can support up to 8 Channels at full 1920x1080p resolution while also powering a full suite of AI features including perimeter detection, SMD+ and Facial Recognition. With AI functionality disabled, your DVR can support up to 12 total channels (8 coax/4 IP or up to 12 IP cameras at up to 6MP per channel Maximum 64 Mbps total bandwidth) of video.



Features

Real Time Face Recognition

With real time face recognition you can use facial features including gender, age, expression, glasses, or even facial hair to identify faces on a real time video stream. This allows you to identify people and also be able to capture a face for storage and record faces with metadata. You can use facial feature filtering while monitoring in real time to show faces with target features.

Perimeter Protection

Perimeter Protection functions significantly improve accuracy. Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection. Perimeter Protection features custom tripwires based on object type for automation in limited access areas such as pedestrian or vehicle-only zones. This combination of advanced AI analytics and real-time alerts to a desktop or a mobile client reduces system requirements as well as resources, resulting in greater surveillance system efficiency

SMD Plus

SMD Plus, referred to as Smart Motion Detection Plus, is an upgraded version of SMD that greatly improves the alarm accuracy by loading deep learning algorithm. It analyzes person and vehicle shapes based on motion detection and send alarms only when a person or vehicle intrudes.

Al Search

Using stored information you can quickly identify people and vehicles from massive video data. This makes it easier to trace back to a certain person vehicle or point in time. Now you can search for targets with ease.

SMART H.265+

Smart H.265+ technology is a collection of intelligent encoding algorithms based on H.265. To meet the characteristics of video surveillance, Smart H.265+ adopts some key video encoding techniques can be flexibly added/deleted or combined according to different applications and products. Smart H.265+ codec can effectively enhance video encoding efficiency according to the characteristics of different surveillance environments; furthermore, it can greatly reduce transmission bit rate, storage capacity to improve the overall system.

HDCVI/AHD/TVI/CVBS Auto-detect

This unit can auto recognize the signal of the camera without having to change settings.

Coaxial Audio/Upgrade/Alarm

This integrated design can reduce wiring troubles and makes it easier to run audio, upgrade your camera, or trigger alarms all via the coax cable.

Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

AI Coding

Compared with H.265, AI codec can reduce up to 50% bit rate and storage requirements while having no loss of decoding compatibility, providing clear human and vehicle details.



Technical Specific	cation		Audio Compression	G.711A, G.711U, PCM
System			Audio Sample Rate	8 KHz, 16 bit Per Channel
Main Processor	Embedded Processor		Audio Bit Rate	64 Kbps Per Channel
Operating System	Embedded LINUX		Display	
Perimeter Protection			Interface	1 HDMI ,1 VGA
Performance	2 channels, 10 IVS for each channel		Resolution	1920 × 1080, 1280 × 1024, 1280 × 720
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion		Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16
Al Search	Search by target classification (Human, Vehicle)		OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
Face Recognition			Network	detection, necorating
	Max 8 face pictures/sec processing		Interface	1 RJ-45 Port (100 MB)
Performance	2 channels video stream face recognition, only support analog camera			HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP,
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.		Network Function	UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.		Max. User Access	128 users
	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added to each face picture.		Smart Phone	iPhone, iPad, Android
Database Management			Interoperability	ONVIF 16.12, CGI Conformant
Database Application	Each database can be applied to video channels		Video Detection and Alarm	
Trigger Events	independently . Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.		Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
SMD Plus	The most of the factor of the		Video Detection	Motion Detection, MD Zones: 396 (22 \times 18), Video Loss, Tampering and Diagnosis
Performance	8 channels		Alarm input	N/A
Al Search	Search by target classification (Human, Vehicle)		Relay Output	N/A
Video and Audio			Playback and Backup	
Analog Camera Input	8 channels, BNC			1/4/9 It changes to 1/4 split when Face or IVS&SMD is selected in AI Mode.
HDCVI Camera Input	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps		Playback	
AHD Camera Input	5MP, 4MP, 1080P@25/30, 720P@25/30fps		Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
TVI Camera Input	5MP, 4MP, 1080P@25/30, 720P@25/30fps		DI	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom
CVBS Camera Input	PAL/NTSC		Playback Function	
IP Camera Input	8+4 channels, each channel up to 6MP		Backup Mode	USB Device/Network
Audio In/Out	1/1, RCA		Storage	
Two-way Talk	Reuse audio in/out, RCA		Internal HDD	1 SATA Port, up to 10TB capacity
Recording			eSATA	N/A
Compression	AI Coding/H.265+/H.265/H.264+/H.264		Auxiliary Interface	
Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF		USB	2 USB Ports (USB 2.0)
Record Rate	Main stream: All channel 5M-N (1fps–10fps); 4M-N/1080P (1fps–15fps); 1080N/720P/960H/ D1/CIF (1fps–25/30fps) Sub stream: D1/CIF (1fps–15fps)		RS485	1 Port, for PTZ Control
		1	RS232	N/A
Bit Rate	32 Kbps-6144 Kbps Per Channel		Electrical	
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop		Power Supply	DC 12V/2A
Record Interval	1 – 60 min (default: 60 min), Pre-record: 1 s–30 s, Post-		Power Consumption (Without HDD)	<7W
	record: 10 s–300 s			

Technical Specification

Construction

Dimensions	Mini 1U, 325 mm × 257 mm × 55 mm (12.80" × 10.10" × 2.17")
Net Weight (without HDD)	1.2 kg (2.7 lb)
Gross Weight	1.9 kg (4.2 lb)
Installation	Desktop installation

Environmental

Operating Conditions	-10°C to +55°C (+14°F to +131°F), 0–90% RH
Storage Conditions	-20°C to +70°C (-4°F to +158°F) , 0–90% RH

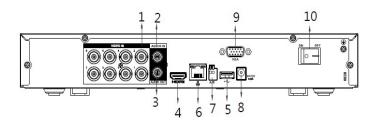
Third-party Support

	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP
Third-party Support	Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung,
	Sanyo, Sony, Videotec, Vivotek, and more

Certifications

	FCC: Part 15 Subpart B
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

Rear Panel



- 1 VIDEO IN
- 6 Network Interface
- 2 AUDIO IN, RCA Connector
- 7 RS485 Interface
- 3 AUDIO OUT, RCA Connector
- 8 DC 12V Power Input
- 4 HDMI Interface
- VGA Interface
- 5 USB Interface
- 10 Power Switch

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Dimensions

