

PIX-NVX165M2

16 Channel Penta-brid 4K-N/5MP Mini 1U 1HDD WizSense Digital Video Recorder



• H.265+/H.265 dual-stream video compression

- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 32 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth
- Up to 2 channels video stream (analog channel) Perimeter Protection
- Up to 16 channels video stream (analog channel) SMD Plus
- Up to 2 channels video stream (analog channel) human face recognition
- IoT & POS functionalities



AI Coding

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

Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

High Definition Camera Input

The XVR supports up to 4K HDCVI camera and 8MP IP camera input.

Coaxial Audio/Upgrade/Alarm

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

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 Search

Extract and classify person and vehicles from massive video data, easy for end users to trace historical information and analyze. Person & Vehicle optonal for playback to achieve quick target search, saving event retrieval tme.

Launched by Pixvideo Technology, WizSense is a series of Al products andsolutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Pixvideo's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

Pixvideo Technology, a world-leading video-centric smart IoT solution andservice provider, debuted its new XVR series, featuring full-channel SMD Plus to benefit customers from AI upgrade. The seriesare designated to reduce false-alarm rates and human surveillance costs, 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

Real Time Face Recognition

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

*The Face Recognition is conflicted with SMD Plus and Perimeter Protection.

Perimeter Protection

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

SMD Plus

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading 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 person and vehicle intrudes.

Technical Specification

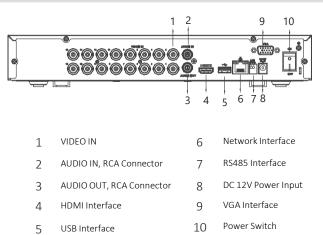
System	
Main Processor	Embedded Processor
Operating System	Embedded LINUX
Perimeter Protection	
Performance	2 channels, 10 IVS for each channel
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion
Al Search	Search by target classification (Human, Vehicle)
Face Recognition	
	Max 12 face pictures/sec processing
Performance	2 channels video stream face recognition, only support analog camera
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.
Database Management	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added to each face picture.
Database Application	Each database can be applied to video channels independently .
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.
SMD Plus	
Performance	16 channels
Al Search	Search by target classification (Human, Vehicle)
Video and Audio	
Analog Camera Input	16 channels, BNC
HDCVI Camera Input	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps
AHD Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
TVI Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
CVBS Camera Input	PAL/NTSC
IP Camera Input	16+16 channels, each channel up to 8MP
Audio In/Out	1/1, RCA
Two-way Talk	Reuse audio in/out, RCA
Recording	
Compression	Al Coding/H.265+/H.265/H.264+/H.264
Resolution	4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF
Record Rate	Main stream: All channel 4K(1fps–7fps); 6MP(1fps– 10fps); 5MP(1fps–12fps); 4K-N, 4MP/3MP(1fps–15fps); 4M-N/1080P/720P/960H/D1/CIF (1fps–25/30fps); Sub steram:960H(1fps–15fps); D1/CIF(1fps–25/30fps)
Bit Rate	32 Kbps–6144 Kbps Per Channel
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop

1 – 60 min (default: 60 min), Pre-record: 1 s–30 s, Post- record: 10 s–300 s	
G.711A, G.711U, PCM	
8 KHz, 16 bit Per Channel	
64 Kbps Per Channel	
1 HDMI ,1 VGA	
HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25/36	
Camera title, Time, Video loss, Camera lock, Motion detection, Recording	
1 RJ-45 Port (1000 MB)	
HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)	
128 users	
iPhone, iPad, Android	
ONVIF 16.12, CGI Conformant	
Video Detection and Alarm	
Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips	
Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	
N/A	
N/A	
Playback and Backup	
1/4/9/16	
1/4/9/16 Time /Date, Alarm, MD and Exact Search (accurate to second)	
Time /Date, Alarm, MD and Exact Search (accurate to	
Time /Date, Alarm, MD and Exact Search (accurate to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full	
Time /Date, Alarm, MD and Exact Search (accurate to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
Time /Date, Alarm, MD and Exact Search (accurate to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom	
Time /Date, Alarm, MD and Exact Search (accurate to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom USB Device/Network	
Time /Date, Alarm, MD and Exact Search (accurate to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom USB Device/Network 1 SATA Port, up to 10TB capacity	
Time /Date, Alarm, MD and Exact Search (accurate to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom USB Device/Network 1 SATA Port, up to 10TB capacity	
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Time / Date, Alarm, MD and Exact Search (accurate to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom USB Device/Network 1 SATA Port, up to 10TB capacity N/A 2 USB Ports (1 USB 2.0, 1 USB 3.0)	
Time / Date, Alarm, MD and Exact Search (accurate to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom USB Device/Network 1 SATA Port, up to 10TB capacity N/A 2 USB Ports (1 USB 2.0, 1 USB 3.0) 1 Port, for PTZ Control	
Time / Date, Alarm, MD and Exact Search (accurate to second) Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom USB Device/Network 1 SATA Port, up to 10TB capacity N/A 2 USB Ports (1 USB 2.0, 1 USB 3.0) 1 Port, for PTZ Control	

Construction

Dimensions	Mini 1U, 325 mm × 257 mm × 55 mm (12.80" × 10.11" × 2.17")
Net Weight (without HDD)	1.3 kg (2.9 lb)
Gross Weight	2.1 kg (4.6 lb)
Installation	Desktop installation
Environmental	
Operating Conditions	-10°Cto+55°C(+14°Fto+131°F), 0–90% RH
Storage Conditions	-20°C to +70°C (-4°F to +158°F) , 0–90% RH
Third-party Support	
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more
Certifications	
Certifications	FCC: Part 15 Subpart B
	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





Dimensions (mm[inch])

