

# 64CH NVR System, up to 24MP Resolution IPC, WizMind AI



Smart H.265+/H.264+ CODEC • 2 HDMI, 1 VGA Output • WizMind - Enterprise level AI tech: SMD Plus, Face Recognition, ANPR, People Count, Metadata and etc. • 2 RG45 Ports (1Gbps) • 8 SATA Ports • 1 eSATA Port • RAID (0/1/5/10) Support

## Intro

WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, DVR,

Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

## Overview

The new network video recorder delivers excellent performance and high recording quality that is ideally suitable for IP video surveillance applications. This NVR adopts powerful processor, providing the capability of 4K resolution processing for applications where image details are highly required. Additionally, the NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

With build-in deep learning module, this product adopt video image structuring technology based on deep learning algorithms, achieving high-precision human face recognition and perimeter protection. By applying deep learning artificial intelligence, allows users to focus on what matters most, improves event response time and helps make video actionable.

The NVR is compatible with numerous third-party devices, which make it the perfect solution for surveillance systems that work independently of video management system (VMS).

## 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.

## Face Recognition

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

## SMD Plus

With intelligent algorithm, 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.

## Video Metadata

With deep learning algorithm, Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

## ANPR by Camera

With deep learning algorithm, ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support block/allowlist mode, searching target vehicles from recorded video.

## People Counting by Camera

With deep learning algorithm, People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

## FEATURES

- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Up to 4 Channel video metadata
- Up to 12 Channel perimeter protection,SMD Plus
- Up to 4 Channel video stream face recognition
- Up to 16 face pictures/sec processing
- Up to 20 face databases with 200,000 face images in total

## SPECIFICATIONS

System	
Main Processor	Multi-core embedded processor

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Operating System	Embedded LINUX
<b>Perimeter Protection</b>	
Performance	12 channel, 10 IVS rules for each channel
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion
AI Search	Search by target classification (Human, Vehicle)
<b>Face Recognition</b>	
Performance	Max 16 face pictures/sec processing (modeling and comparing) 4 channel video stream face recognition/16 channel picture stream face recognition (with FD camera)
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.
AI 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 20 face databases with 200,000 face images in total. Name, gender, birthday, nationality, address, ID information 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.
<b>Metadata</b>	
Face	Gender, age, glasses, beard, mouth mask, expression.
Vehicle	Plate No., type, color, vehicle type, logo, plate color, ornament, calling, seatbelt, region.
Human Body	Top, top color, bottom, bottom color, hat, bag, gender, age, umbrella.
Non-motor Vehicle	Type, color, number of passengers, helmet.
AI Search	Support search target video by metadata.
<b>Audio and Video</b>	
IP Camera Input	64 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA
<b>Display</b>	
Interface	2 HDMI, 1 VGA
Resolution	HDMI1/VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI2: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720
Decoding Capability	4-ch@8MP (30fps), 16-ch@1080P (30fps)

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Multi-screen Display	1st Screen: 1 / 4 / 8 / 9 / 16 / 25 / 36 2nd Screen: 1 / 4 / 8 / 9 / 16
<b>Recording</b>	
Bandwidth	320 Mbps (160 Mbps when AI function enabled)
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
Resolution	24MP, 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.
Record Mode	Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IVS)
Record Interval	1-120 min (default: 60 min), Pre-record: 1-30 sec, Post- record: 10-300 sec
RAID Support	RAID 0/1/5/10
<b>Video Detection and Alarm</b>	
Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change
Alarm input	16 Channel
Relay Output	6 Channel
<b>Playback and Backup</b>	
Sync Playback	1/4/9/16
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to second)
Backup Mode	USB Device/Network
<b>Third-party Support</b>	
Third-party Support	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more
<b>Network</b>	
Interface	2 RJ-45 Ports (10/100/1000 Mbps)
PoE	N/A
Network Protocol	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P
Max. User Access	128 users
Mobile App	iPhone, iPad, Android
Interoperability	ONVIF 2.4, SDK, CGI

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<b>Storage</b>	
Internal HDD	8 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
eSATA	1 eSATA
<b>Auxiliary Interface</b>	
USB	4 USB Ports (2 Rear USB 3.0, 2 Front USB 2.0)
RS232	1 Port, for PC Communication and Keyboard
RS485	1 Port, for PTZ Control
<b>Electrical</b>	
Power Supply	Single, AC100V-240V, 50-60 Hz
Power Consumption	NVR: <16.1W (Without HDD)
Fan	Smart fan, automatically adjust running speed
<b>Environmental</b>	
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86-106kpa
Storage Conditions	0°C to +40°C (+32°F to +104°F), 30-85% RH
<b>Construction</b>	
Dimensions	2U, 439.7 mm × 451.0 mm × 94.9 mm (17.31" × 17.75" × 3.73")
Net Weight	6.70 kg (14.8 lb) (without HDD)
Gross Weight	9.30 kg (20.5 lb) (without HDD)
<b>Certifications</b>	
CE	EN55032, EN55024, EN50130 ~ 4, EN62368 ~ 1
FCC	Part 15 Subpart B, ANSI C63.4 ~ 2014