



16 Channel NVR

Description : 16Channel 1U 2HDDs 8PoE WizMind Network Video Recorder

Model No : GA-16NVR

Key Features

- 16 Channel IP video access
- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Up to 16 Channel perimeter protection
- Up to 4 Channel video stream face recognition
- Up to 22 face pictures/sec processing
- Up to 20 face databases with 100,000 face images in total
- 1-8 PoE Ports support ePoE & EoC

Technical Specifications

System

- Main Processor: Multi-core embedded processor
- Operating System: Embedded LINUX

Perimeter Protection

- Performance: 16 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)

Face Recognition

- Performance: Max 22 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 100,000 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.

Audio and Video

- IP Camera Input: 32/64 Channel
- Two-way Talk: 1 Channel Input, 1 Channel Output, RCA

Metadata

- 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.

Display

- 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)
- Multi-screen Display: 1st Screen: 1/4/8/9/16/25/36, 2nd Screen: 1/4/8/9/16

Recording

- Bandwidth: 320 Mbps (160 Mbps when AI function enabled)
- Compression: Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Resolution: 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: Raid0,Raid1,Raid5,Raid10

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Video Detection and Alarm

- 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

Third-party Support

- Third-party Support: Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more

Storage

- 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

Electrical

- Power Supply: Single, AC100V–240V, 50–60 Hz
- Power Consumption: NVR: <16.1W (Without HDD)
- Fan: Smart fan, automatically adjust running speed

Construction

- 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)

Playback and Backup

- Sync Playback: 1/4/9/16
- Search Mode: Time/Date, Alarm, MD and Exact Search (accurate to second)
- Backup Mode: USB Device/Network

Network

- Interface: 2 RJ-45 Ports (10/100/1000 Mbps)
- PoE: N/A
- Network Function: 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

Auxiliary Interface

- 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

Environmental

- 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

Certifications

- CE: EN55032, EN55024, EN50130-4, EN60950-1
- FCC: Part 15 Subpart B, ANSI C63.4-2014
- UL: UL 60950-1