NVR

# 256CH NVR

## 16MP/12MP/8MP/6MP/4MP/3MP/1080P/720P HD NVR




## TD-33256H16-A3H

8K Output | HD IPC | DDNS | Network | PTZ | Audio | MIC | Mobile | CMS | USB | Mouse | E-mail | STD | FR | VCA

This seires of products supports 256CH 16MP/12MP /8MP / 6MP / 5MP / 4MP / 3MP / 1080P / 1280 × 1024 / 960P /720P high definition IP video input, which adopts the advanced SOC technique to ensure high definition recording in each channel and realize outstanding robustness of the system.

This seires supports 256CH IP input, simultaneous 16 CH playback, and 8K high definition display. So it can meet different security requirements of home, financial, commerce, enterprise, transportation and government, etc.

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For more information, please visit our website

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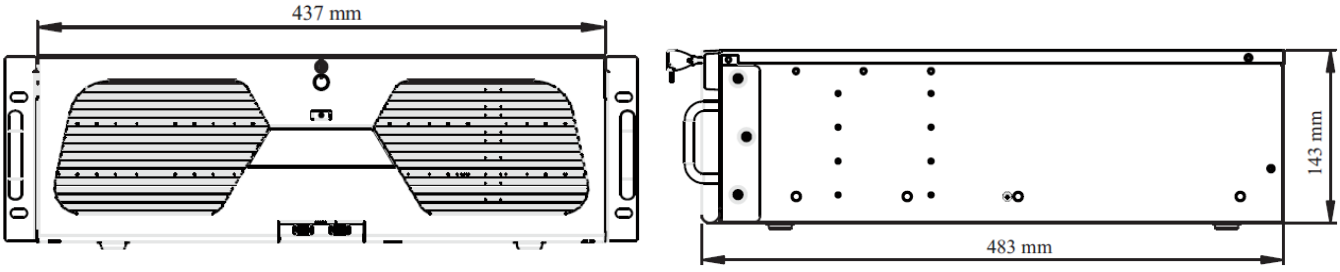
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## Features

- Support 256CH 16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/1280x1024/960P/720P/960H/D1/CIF IP input
- H.265S/H.265+/H.265/H.264 coding
- Intuitive and user-friendly Graphic User Interface (GUI), Windows style operation by mouse
- Multi-mode recording: manual / timed / motion / sensor/ POS / AI recording
- Playback: 16 CH simultaneous playback
- Search: time slice, time, event, tag, smart and target database search
- Support face detection and comparison
- Support multiple VCA (Video Content Analytics) events, such as region intrusion, tripwire, etc.
- Support OS information overlay on live view and playback
- Support RAID 0, 1, 5, 6, 10
- Express and flexible backup via USB, network and so on
- Preview, record, playback, backup and remote access are supported
- DHCP, DDNS, PPPoE network protocol, etc.
- Compatible with third-party IPCs, such as ONVIF, Hikvision, etc.
- Remote control via Web Client or CMS: preview, playback, backup, PTZ and configuration
- Multi-user online simultaneously
- Authorization management, log view and device status view
- 8K output, true high-resolution display
- Support PTZ preset and auto cruise
- Support NAT function and QR Code scanning by mobile phones
- Powerful mobile surveillance by smart phones with iOS and Android OS

## Dimensions





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## Specifications

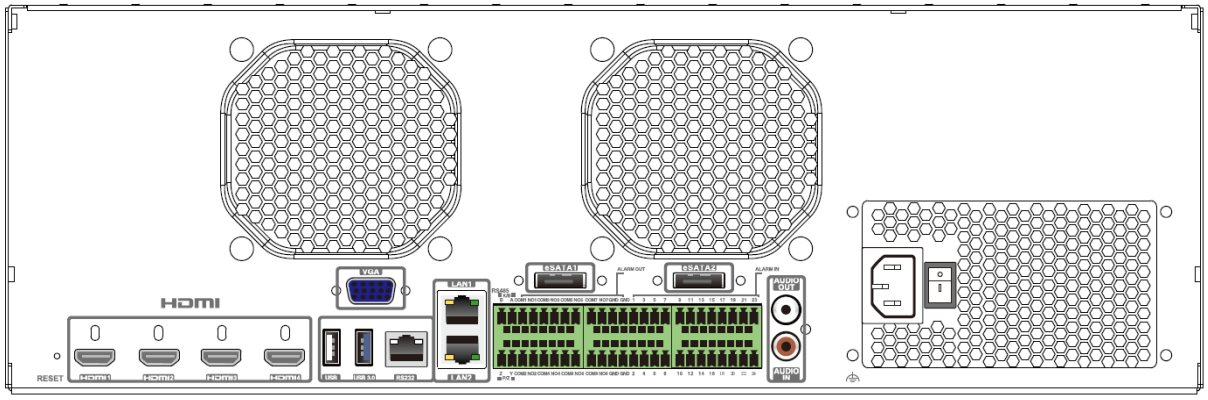
| Model | | TD-33256H16-A3H |
|---|---|---|
| **System** | OS | Embedded Linux |
| **Video** | IP Video Input | 256CH |
| | Network Bandwidth | 768Mbps/ 768Mbps (Incoming/Outgoing)<br>*When the AI function of the IPC is enabled, the actual incoming bandwidth (max. bitrate) is more than the set value in the NVR. |
| | Resolution | 16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/1280x1024/960P/720P/960H/D1/CIF |
| | Output | HDMI1: 7680×4320@60, 7680×4320@30, 3840×2160@60, 3840×2160@30, 1920×1080, 1280×1024, 1024×768 (When the resolution of HDMI1output is 8K, HDMI2 is unavailable)<br>HDMI2: 3840×2160@60, 3840×2160@30, 1920×1080, 1280×1024, 1024×768<br>HDMI3: 1920×1080, 1280×1024, 1024×768<br>HDMI4: 1920×1080, 1280×1024, 1024×768<br>VGA×1: 1920×1080, 1280×1024, 1024×768 (VGA and HDMI1 output the same video source) |
| | Multi-screen Display | Main output:1/4/6/8/9/13/16/25/32/36/64<br>AUX output 1:1/4/6/8/9/13/16/25/32/36<br>AUX output2:1/4/6/8/9/13/16<br>AUX output 3:1/4/6/8/9/13/16<br>Max. 132(64+36+16+16) |
| | Compression | H.264/H.265/H.265+/H.265S |
| **Audio** | Network input | 256CH |
| | Local Input | RCA×1 (for two-way talk) |
| | Local Output | RCA×1 |
| | HDMI Audio Output | Support |
| | Compression | G.711(U/A) |
| **Record** | Resolution | 16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/1280x1024/960P/720P/960H/D1/CIF |
| | Frame Rate | N: 30fps; P: 25fps (IPC high frame rate mode: N: 60fps; P: 50fps) |
| **Cloud Storage** | Number of Channels | Up to 16CH |
| | Record | Resolution: 1080P/720P |
| | | Frame Rate: 15fps |
| **Playback** | Simultaneous Playback | 16CH |
| | Search | Time slice/time/event/tag/smart search |
| | Function | Play, pause, FF, Rewind, digital zoom, previous frame, next frame, etc. |
| **Decoding Capability** | Live View/ Playback | Non-AI mode (default mode): 1×16MP@30fps/4×16MP@30fps/9×6MP@30fps /16×4MP@30fps/36×720P @30fps /64×D1@30fps (AI by NVR, face comparison and PicSearch not supported; cloud storage supported)<br>AIMode:1×16MP@30fps/4×12MP@30fps/9×5MP@30fps/16×3MP@30fps/36×720P@30fps/64×D1@30fps (AI by NVR, face comparison and PicSearch supported; cloud storage not supported) |
| **Alarm** | Mode | Manual, sensor, motion, exception, smart events, etc. |
| | Input | 24CH |
| | Output | 8CH |
| | Triggering | Record, snapshot, preset, e-mail, etc. |
| **Face** | Face Detection Performance (AI by IPC) | 256CH |
| | Face Detection Performance (AI by NVR) | PicSearch disabled: 4CH (2MP) or 4CH (4MP) or 2CH (8MP) or 1CH (16MP)<br>PicSearch enabled: 2CH (2MP) or 2CH (4MP) or 2CH (8MP) or 1CH (16MP) |
| | Face Match Performance | PicSearch disabled:16CH<br>PicSearch enabled: 8CH |
| | Comparison Capability | 36 pictures/second |
| | Face Picture Database | 32 libraries<br>10000 face pictures |
| | Face Picture Search | Search by picture is supported |


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| | | |
|---|---|---|
| | Database Management | Add, modify, delete and search face pictures |
| | Face Picture Adding | Add face pictures through APP, WEB and external import |
| | Face PicSearch | Supports successful face recognition alarm and stranger match alarm |
| | Track | Track display on a map |
| | Statistical Graph of Information | Bar graph |
| | Statistical Mode of Information | Statistics by day, week, month, quarter as well as customized time period |
| **Perimeter Protection** | Human/Vehicle Classification (AI by IPC) | 256CH |
| | Human/Vehicle Classification (AI by NVR) | PicSearch disabled: 8CH (2MP) or 4CH (4MP) or 2CH (8MP) or 1CH (16MP)<br>PicSearch enabled: 4CH (2MP) or 4CH (4MP) or 2CH (8MP) or 1CH (16MP) |
| **Video Metadata** | Human/Vehicle Attribute Analysis (AI by IPC) | Yes |
| **Other Functions** | Fisheye | Supports fisheye dewarping via NVR/Web Client/mobile APP |
| | Plate Recognition (AI by IPC) | Yes (License plate database: up to 50,000 plate numbers) |
| **Network** | Protocol | TCP/IP, HTTP, HTTPS, 802.1x, FTP, DHCP, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IPv6, UDP, WebSocket, PPPoE, SNMP, IGMP |
| | Interface | RJ45 10/100/1000Mbps ×2 |
| | Client Connection | Max. 128 users access |
| **Mobile Device** | OS | iOS, Andriod |
| **Storage** | HDD Interface | SATA3.0 × 16, max 16TB per HDD |
| | RAID Type | RAID0, 1, 5, 6, 10 |
| | E-SATA Interface | 2 |
| **Port** | USB | USB3.0 × 1; USB2.0 × 3 (Front: 2) |
| | RS485 | Yes (full-duplex), connect to PTZ or keyboard |
| | RS232 | Yes |
| | Reset | Yes |
| | Remote Controller | No |
| **Others** | Power | ATX-275W |
| | Consumption | ≤50W (without HDD) |
| | Dimensions | 437 × 483 × 143mm |
| | Certificate | CE, FCC |
| | Environmental Protection | Directive EU RoHS, WEEE (2012/19/EU), and REACH (EC1907/2006) |
| | Working Environment | -10~50°C; Humidity: 10%~90% |


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## Rear Panel





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