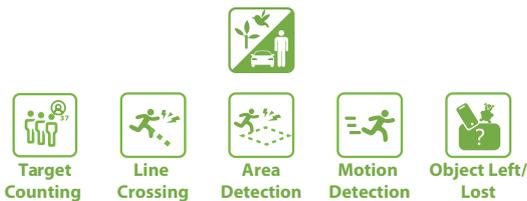


Z8536NHR-S / Z8564NHR-S | ZKBio Sense Series

H.265+ 36/64 Channels Smart Network Video Recorder



- H.265+/H.265/H.264 decoding
- Support 36/64 -channel IP cameras input & preview
- 16 channels realtime playback synchronously
- HDMI output 4K high definition
- Embedded with smart human & vehicle classification algorithm
- Multiple intelligent video analytics functions (up to IPC) displaying
- Support multiple web browsers login
- P2P cloud service supported

Product Overview

ZKBio Sense Series Network Video Recorder (NVR) is the back-end storage station of the new intelligent video surveillance solution released by ZKTeco based on the Deep-Learning algorithm and Computer Vision technology.

Embedded with advanced and powerful CPU, and ZKTeco's graphical operation system, the ZKBio Sense Series Network Video Recorders are the ideal couple for the front-end ZKBio Sense Series IP Cameras. The NVR can support 24/7 continuously recording all video and intelligent alarm events generated by the front-end IP Cameras, and store safely into hard drive by human & vehicle classification. After the event, the NVR can allow user to efficiently retrieve and playback the target video evidences especially for the key types of targets: human, vehicles and objects, so to more focus on the effective video clips and alarm events.

The ZKBio Sense Network Video Recorders can greatly help to improve the efficiency and safety of the entire video surveillance system, can be widely used in different scenario such as smart school, office, industrial park, community, public security, etc.

Core Features

H.265+ HEVC

H.265+ is an evolutionary optimization of the traditional H.264, it includes a series of encoding strategy such as ROI, smart 2D/3D noise reduction, etc. Delivering high quality video with up to 75% lower bandwidth.

IVA (Intelligent Video Analytics)

ZKBio Sense Network Video Recorders support to multiple intelligent video analytic functions couple with the ZKBio Sense IP Cameras, such as: Target Counting, Object Lost/Left, and the Line Crossing, Area detection, Smart Motion Detection base on human and vehicle targets classification.

Smart Retrieval

ZKBio Sense Network Video Recorders support smart retrieval for video and alarm events by human & vehicle classification, enable user to efficiently search out the targeting video clips and alarm events .

ANR (Only for SD card IPC models)

While the connection lost between IPC and NVR, the video will be saved in SD card. The saved video will be auto replenished to NVR when network recovers to avoid any video lost.

Alarm Push Notification

Alarm events received to NVR can linkage actions such as email, audio, buzzer, and alarm message can be pushed to Mobile App and Management Platform Software on real-time.

Technical Specification

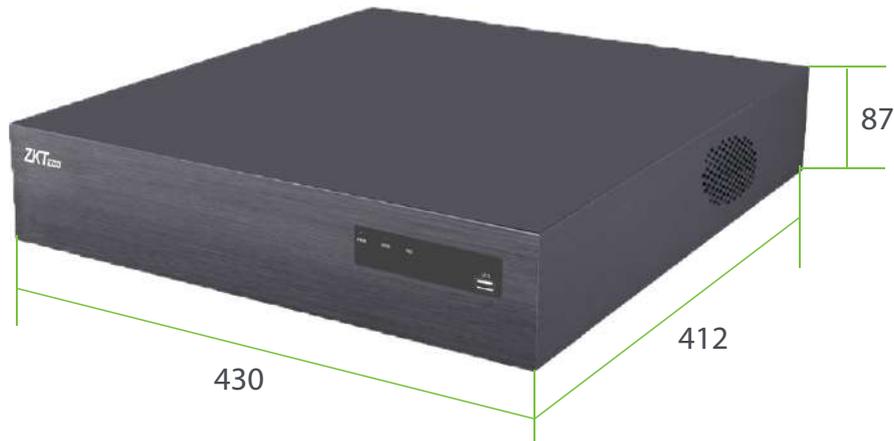
| Model | Z8536NHR-S | Z8564NHR-S |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| System | | |
| Main Processor | Multi-core embedded processor | |
| Operating System | Embedded LINUX | |
| Operation Interface | Web browser & Local GUI | |
| Video and Audio | | |
| Max IPC Video Input | 36 CH | 64 CH |
| Two-way Talk | Support | |
| Audio Compression | G.711u | |
| Max Audio Input | 36 CH by IPC | 64 CH by IPC |
| Third Party Camera Access | ONVIF & RTSP | |
| Live View | | |
| Display Split | 1 / 4 / 6 / 8 / 9 / 16 / 24 / 32 / 36 CH | 1 / 4 / 6 / 8 / 9 / 16 / 24 / 32 / 36 / 64 CH |
| Resolution | 8 MP(3840*2160) / 5 MP(2592*1944) / 2 MP(1920*1080) / 1.3 MP(1280*1024) / 1 Mp(1280*720) / D1(1024*768) | |
| Live View Capability | 36 CH@D1(25/30 fps) | 64 CH@D1(25/30 fps) |
| Recording | | |
| Video Compression | H.265+ / H.265 / H.264 | |
| Recording Resolution | 8 MP / 5 MP / 4 MP / 3 MP / 1080P / 960P / 720P / D1 | |
| Max. Decoding Capability | 36 CH@D1(25/30 fps) | 64 CH@D1(25/30 fps) |
| Incoming Bandwidth | 216 Mbps | 512 Mbps |
| Outgoing Bandwidth | 216 Mbps | 512 Mbps |
| Stream Type | Video, Video & Audio | |
| Bit Rate | Main Stream: 256 Kbps ~ 8192 Kbps Sub Stream: 50 Kbps ~ 700 Kbps <small>*It is recommended to use the variable code stream mode</small> | |
| Storage Method | Local hard drive and network | |
| Record Mode | Schedule, Manual, Motion Detection, IVA Events Alarm | |
| Record Interval | 1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec | |
| Playback and Backup | | |
| Playback Channel | 16 CH synchronously playback | |
| Search Mode | Time / Date, Alarm Types, IVA Search | |
| Playback Function | Play, Stop, Play Forward, Play Backward, 30 Seconds Forward, 30 Seconds Backward, Fast Play, Slow Play, Single Frame Play, Hide/Show Time Bar, Backup, Snapshot, Full Screen | |
| Backup Mode | USB Device / Network Remote | |
| Intelligent Video Analytics | | |
| IVA by Camera | Line Crossing, Area Detection, Smart Motion Detection (base on human and vehicle classification), Target Counting, Object Lost / Left | |
| Local IVA Functions displaying | Line Crossing, Area Detection, Smart Motion Detection (base on human and vehicle classification), Target Counting, Counting Statistics, Object Lost / Left | |
| IVA by Device(Number of Channels) | Up to IPC | |

| | | |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| IVA by Camera (Number of Channels) | 36 | 64 |
| IVA Alarm | | |
| Smart IVA Alarm | Line Crossing, Area Detection, Smart Motion Detection (base on human and vehicle classification), Target Counting, Counting Statistics, Object Lost / Left | |
| Regular Detection | Motion Detection / Video Shelter / Video Loss | |
| Anomaly Alarm | HDD Full, No HDD, S.M.A.R.T error, Network disconnected, IP conflict | |
| Alarm Linkage | Preview, Recording, Snapshot, Buzzer, Preset, Email, Tour, Upload center | |
| Smart Search | Support smart search out target video by human and vehicle classification filtering | |
| Network | | |
| Network Protocol | TCP/IP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTSP, NTP, UPnP, SMTP, IPv4, UDP, SSL/TLS, PPPoE, SNMP, WebSocket, P2P | |
| Max. Online User | 5 | |
| Web Browser | Google Chrome / Microsoft Edge / Firefox / Safari / Opera | |
| Operation System | Windows | |
| Management Platform | ZKBio CVSecurity / CVAccess / AntarVis 2.0 | |
| Mobile Application | AntarView Pro+ (iOS & Android) | |
| P2P Cloud Service | Support | |
| Interoperability | ONVIF Profile S/G, SDK, CGI, API | |
| Storage & Auxiliary Interface | | |
| SATA Ports | 9 SATA Port, up to 8 TB capacity each | |
| eSATA | Support | |
| Raid 0/1/5/6/10 | Support *Z8536NHR-S: It is recommended to use 3 or more hard disks in non RAID mode, and 2 or more RAID groups in RAID mode; Z8564NHR-S: It is recommended to use 4 or more hard disks in non RAID mode, and 3 or more RAID groups in RAID mode. | |
| HDMI | 1*HDMI (4K) | |
| VGA | 1*VGA (1920*1080/60 Hz, 1280*1024/60 Hz) | |
| Network Interface | 2 RJ-45 Port (10/100/1000 Mbps) | |
| PoE Ports | N/A | |
| Standard | N/A | |
| USB | 2*USB 2.0 | |
| Audio Input/Output | 1 / 1 | |
| Alarm Input/Output | 4 / 4 | |
| RS-485 | Support | |
| RS-232 | N/A | |
| Power | | |
| Power Supply | AC100~240 V, 47 Hz~63 Hz | |
| Power Consumption | ≤35 W (without HDD) | |
| General | | |
| Casing | 2U | |
| Working Temperature | -10°C ~ 55°C / 14°F ~ 131°F | |
| Working Humidity | 10 % ~ 90 % | |
| Storage Humidity | 10 % ~ 90 % | |
| Operating Altitude | 3,000 m (9,842.52 ft) | |
| Installation | Desktop / Cabinet mount | |
| Dimensions(L*W*H) | 412 * 430 * 87 (mm) | |
| Net Weight | 7 kg (without HDD) | |
| Gross Weight | 7.5 kg (without HDD) | |

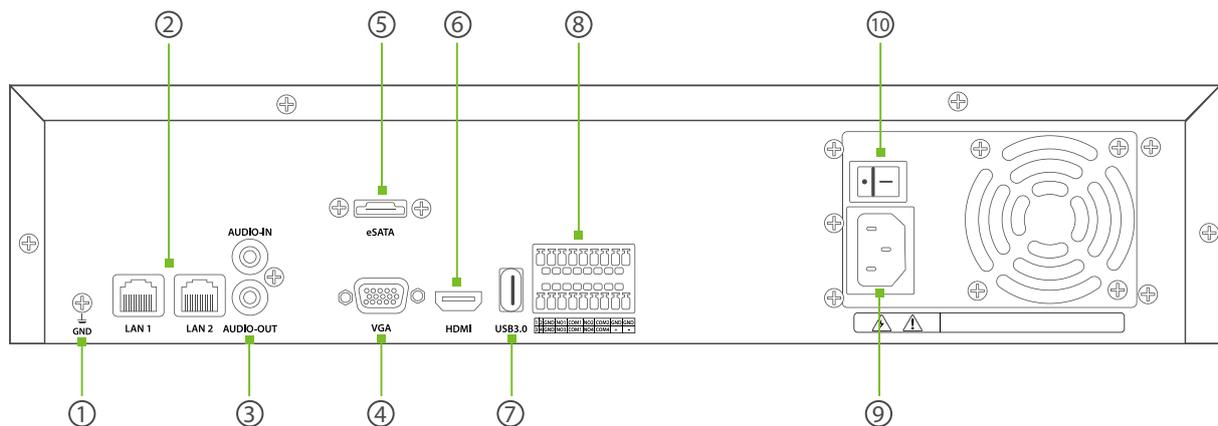
Order Information

| Name | Model | Description |
|-----------------------|------------|--------------------------|
| ZKBio Sense Smart NVR | Z8536NHR-S | 36 CH H.265+ NVR, 9 SATA |
| | Z8564NHR-S | 64 CH H.265+ NVR, 9 SATA |

Dimensions (mm)



Rear Panel



| NO. | Description | NO. | Description |
|-----|-----------------------|-----|-------------------|
| 1 | GND | 6 | HDMI Interface |
| 2 | LAN Network Interface | 7 | USB 3.0 Interface |
| 3 | AUDIO Interface | 8 | Alarm Interface |
| 4 | VGA Interface | 9 | Power Supply |
| 5 | E-SATA Interface | 10 | Power Switch |

