

# **Z8664NHR-S** | ZKBio Sense Series

H.265+64 Channels ZK ZKBio Sense Smart Network Video Recorder

















simultaneous display capability

• 9 SATA Port, up to 16 TB capacity each

performance

• Dual HDMI (4K) and dual VGA (1080p) outputs with independent

• Supports H.265+,H.265, and H.264 video formats with enhanced decoding

- Hot swap drives for continuous recording and easy HDD replacement
- Dual Ethernet ports 10M/100M/1000Mbps self-adaptive
- Compatible with up to 12MP IP cameras inputs
- Supports 16-channel realtime playback synchronously
- Embedded intelligent classification algorithm based on computer vision technology for human/vehicle classification
- Multiple intelligent video analytics functions (NVR local intelligence)
- Supports multiple web browsers login
- P2P cloud service supported
- Compatible with ONVIF Profile S/T/G

**Product OverView** 

ZKTeco BioSense smart network video recorder (NVR) enhances the efficiency and safety of video surveillance system. ZKTeco BioSense smart NVR features a powerful CPU hardware and ZKTeco's intuitive graphical operating system, these recorders provide 24/7 continuous recording of all video channels and intelligent alarm events. The system automatically classifies and stores footage by human and vehicle detection on the hard drive. Moreover, an advanced retrieval functions enable rapid playback of specific targets (human/vehicle), allowing users to guickly locate critical footage and alarm events.

ZKTeco BioSense smart NVR enhances surveillance system efficiency and safety across diverse applications including educational facilities, corporate offices, industrial parks, residential communities, and public security operations.

### **Core Features**

## H.265 +

H.265+ is an optimization of the H.265 algorithm. Through technologies such as dynamic bitrate control and scene-adaptive encoding, it reduces the required bitrate by 20% - 40% compared with H.265 while maintaining the same video quality.

### Intelligent Video Analytics (IVA)

ZKBio Sense Network Video Recorders support multiple intelligent video analytic functions, such as: Line Crossing, Area Detection, Target Counting, Counting Statistics, Object Lost/Left, 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, enabling users to efficiently search and locate the targeted video clips and alarm events.

### ANR (Only for SD card IPC models)

When the connection between IPC and NVR is lost, the video is saved in the SD card. The saved video is automatically transferred to the NVR when network connection is restored, preventing any video loss.

#### **Alarm Push Notification**

When the NVR receives alarm events, it can trigger actions including email, alarm alerts and buzzer activation. Also, the alarm messages are pushed to mobile app and management platform software in real-time.

# **Technical Parameters**

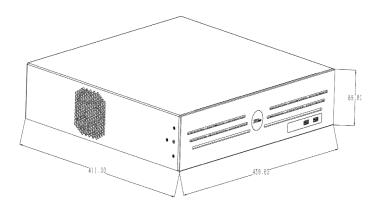
	ZOCCANIID C		
Model	Z8664NHR-S		
System	AA Ida		
Main Processor	Multi-core embedded processor		
Operating System	Embedded LINUX		
Operation Interface	Web browser & Local GUI		
Video and Audio			
Max IPC Video Input	64CH		
Two-way Talk	Support		
Audio Compression			
Max Audio Input			
Third Party Camera Access	ONVIF & RTSP		
Live View			
Display Split	1/4/6/8/9/13/16/25/36/49/64CH		
Resolution	12MP(4000*3000)/8MP(3840*2160)/5MP(2592*1944)/2MP(1920*1080)/1.3MP(1280*1024)/ 1MP(1280*720)/D1(1024*768)		
Live View Capability	Local AI OFF: 2CH@12MP,4CH@8MP,9CH@3MP,13CH@2MP,16CH@2MP,36CH@D1,64CH@ VGA(25/30fps) Local AI ON: 2CH@12MP, 4CH@8MP, 9CH@3MP, 13CH@2MP, 16CH@2MP, 36CH@D1		
Recording			
Video Compression	H.265+/H.265/H.264		
Recording Resolution	12MP/8MP/5MP/3MP/1080P/960P/720P/D1/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
Max. Decoding Capability	Local Al OFF: 2CH@12MP, 4CH@8MP, 9CH@3MP, 13CH@2MP, 16CH@2MP, 36CH@D1, 64CH@VGA(25/30fps) Local Al ON: 2CH@12MP, 4CH@8MP, 9CH@3MP, 13CH@2MP, 16CH@2MP, 36CH@D1		
Incoming Bandwidth	Local AI OFF:502Mbps Local AI ON:480Mbps		
Outgoing Bandwidth	Local AI OFF:256Mbps Local AI ON:256Mbps		
Stream Type	Video, Video & Audio		
Bit Rate	Main Stream: 16Kbps ~ 8192Kbps Sub Stream: 50Kbps ~ 1024Kbps		
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	16CH 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	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)	8		
IVA by Camera (Number of Channels)	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		

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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, ONVIF, DHCP, DNS, DDNS, RTSP, NTP, UPnP, SMTP, IPv4, UDP, SSL/TLS, PPPoE, WebSocket, ICMP, IGMP, RTMP, RTCP, ARP		
Max. Online User	30		
Web Browser	Google Chrome/Microsoft Edge/Firefox/Safari		
Operation System	Windows		
Management Platform	ZKBio CVSecurity / CVAccess / AntarVis 2.0		
Mobile Application	AntarView Pro+ (iOS & Android) or AntarView Plus (iOS & Android) [depends on firmware version]		
P2P Cloud Service	Support		
Interoperability	ONVIF Profile S/T/G, SDK, CGI, API		
Storage & Auxiliary Interface			
SATA Ports	9 SATA Port, up to 16 TB capacity each (support Hot Swap)		
eSATA	Support		
Raid 0/1/5/6/10	Support		
HDMI	2*HDMI (4K)		
VGA	2*VGA(1920*1080/60Hz, 1280*1024/60Hz)(support independent output)		
Network Interface	2 RJ-45 Port (10/100/1000 Mbps self adaptive )		
PoE Ports	N/A		
Standard	N/A		
USB	2*USB 2.0,1*USB 3.0		
Audio Input/Output	1 ln / 1 Out		
Alarm Input/Output	16 ln / 8 Out		
RS-485	Support		
RS-232	N/A		
Power			
Power Supply	AC100~240V, 50Hz~60Hz		
Power Consumption	≤45W(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)	411*439.6*89.8(mm)		
Net Weight	7.65KG		
Gross Weight	13.65KG		
Certifications	CE-LVD; CE-EMC; FCC certification		
Environment	CE-RoHS, WEEE, Reach self-declaration		

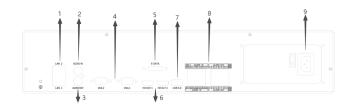
# **Order Information**

Name	Model	Description
ZKBio Sense Smart NVR	Z8664NHR-S	64CH H.265+ 4K NVR, 9SATA

# Dimensions (mm)



# **Rear Panel**



No.	Description	No.	Description
1	LAN Network Interfaces	6	HDMI Interfaces
2	AUDIO-IN	7	USB 3.0 Interface
3	AUDIO-OUT	8	Alarm In/Alarm Out
4	VGA Interfaces	9	Power Supply
5	E-SATA Interface		



