

Z8504NEQ-4P-S | BioSense Series

H.265 4 Channels BioSense Network Video Recorder with 4 PoE















Detection



Object Left Remove

· H.265/H.264 decoding

- Support 4-channel 4K IP cameras input & preview
- 4 channels realtime playback synchronously
- HDMI output up to 4K UHD
- 4 PoE ports, up to 250m transmission (by 10Mbps)
- Embedded intelligent classification algorithm based on computer vision technology
- Pair with Biosense IP cameras to form a video surveillance system with multiple intelligent analytics
- · Support multiple web browsers login
- P2P cloud service supported

Product Overview

BioSense Series Network Video Recorder (NVR) is the back-end storage device 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 hardware, and ZKTeco's graphical operation system, the BioSense Series Network Video Recorders are the ideal couple for the front-end BioSense 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 recording the video and intelligent alarm events, the NVR can allow the user to efficiently retrieve and playback the target video evidence, especially for the key types of targets such as humans, vehicles, and objects. This function enables the user to focus on the most effective video clips and alarm events.

The BioSense 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 70% lower bandwidth.

IVA (Intelligent Video Analytics)

BioSense Network Video Recorders support multiple intelligent video analytic functions couple with the BioSense 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

BioSense 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 between IPC and NVR is lost, the IPC will save the video in the SD card. The saved video will be auto-replenished to NVR when the network recovers to avoid any video loss.

Alarm Push Notification

Alarm events received by the NVR can trigger actions such as sending emails, playing audio, sounding a buzzer, and displaying an alarm message. These actions can be pushed in real-time to a mobile app or a management platform software.

Technical Parameters

A	70504050 40.6		
Model	Z8504NEQ-4P-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	4CH		
Two-way Talk	Support		
Audio Compression	G.711u		
Max Audio Input	4CH by IPC		
Third Party Camera Access	ONVIF & RTSP		
Live View			
Display Split	1/4 CH		
Resolution	8MP(3840*2160) / 5MP(2592*1944) / 2MP(1920*1080) /1.3MP(1280*1024) / 1MP(1280*720) / D1(1024*768)		
Live View Capability	1CH@8MP(25/30fps) / 4CH@D1(25/30fps)		
Recording			
Video Compression	H.265 / H.264		
Recording Resolution	8MP/5MP/3MP/1080P/960P/720P/D1/VGA/4CIF/DCIF/2CIF/QCIF		
Max. Decoding Capability	4CH@8MP(25/30fps)		
Incoming Bandwidth	40 Mbps		
Outgoing Bandwidth	40 Mbps		
Stream Type	Video, Video & Audio		
Bit Rate	Main Stream: 16Kbps ~ 8192Kbps Sub Stream: 50Kbps ~ 700Kbps		
Storage Method	Local hard drive and network		
Record Mode	Schedule, Manual, Motion Detection, IVA Events Alarm		
Record Interval	1 \sim 120 min (default: 60 min), Pre-record: 1 \sim 30 sec, Post-record: 10 \sim 300 sec		
Playback and Backup			
Playback Channel	4CH 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)	4		

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, SNM WebSocket, P2P	
Max. Online User	20	
Web Browser	Google Chrome/Microsoft Edge/Firefox/Safari/Opera	
Operation System	Windows	
Management Platform	ZKBio CVSecurity / ZKBio Access IVS / AntarVis 2.0	
Mobile Application	AntarView Pro+ (iOS & Android)	
P2P Cloud Service	Support	
nteroperability	ONVIF Profile S/G, SDK, CGI, API	
Storage & Auxiliary Interface		
SATA Ports	1 SATA Port, up to 8 TB capacity	
SATA	N/A	
Raid 0/1/5/6/10	N/A	
HDMI	1*HDMI (4K)	
/GA	1920*1080/60Hz, 1280*1024/60Hz	
Network Interface	1 RJ-45 Port (10/100Mbps self adaptive)	
PoE Ports	4 PoE, 10/100 Mbps self adaptive	
Standard	IEEE802.3af/at self adaptive	
JSB	3*USB 2.0	
Audio Input/Output	0/1 output	
Alarm Input/Output	N/A	
RS-485	N/A	
RS-232	N/A	
Power		
Power Supply	DC 48V/1.5A	
Power Consumption	≤ 24W (without HDD)	
General		
Casing	1U	
Operating Temperature	-10°C to 55°C / 14°F to 131°F	
Operating Humidity	0% to 90% RH (Non-condensing)	
Storage Humidity	30% to 80% RH (Non-condensing)	
Operating Altitude	3,000 m (9,842.52 ft)	
nstallation	Desktop / Cabinet mount	
Dimensions(L*W*H)	255 * 210 * 43 (mm)	
Net Weight	2.8kg (without HDD)	
Gross Weight	3.3kg (without HDD)	
Certification	ISO14001, ISO9001, CE, FCC	

Order Information

Name	Model	Description
BioSense Smart NVR	Z8504NEQ-4P-S	4CH H.265 4K PoE NVR, 1SATA

Dimension (mm)



Interfaces (Back Side)





