

technical specifications

VK-NVR7816-AI



16 CH
up to 4K



perimeter protection
face detection
human / vehicle detection



8 HDD
up to 14 TB



HDMI up to 4K
audio 1 input / 1 output

System

OS	Embedded Linux
OS operation interface	Web/operating in local GUI

AI

Perimeter protection	16CH by camera, 4CH by NVR
Face detection	16CH by camera, 4CH by NVR
Human/vehicle detection	16CH by camera
SMD	16CH by camera, 4CH by NVR

Bandwidth

Incoming	200Mbps
Outcoming	200Mbps
IPC input	16CH
IPC access	Support one-click add IPC function

Video & audio output

VGA	1080P / 1.3MP / 720P
HDMI	4K / 1080P / 1.3MP / 720P
Audio output	1CH, RCA (line out, 2Vp-p)

Audio

Audio compression	G.711A
Audio bit rate	64Kbps
Two-way talk	Yes

Video & audio decoding

IP channel resolution	Up to 3840 x 2160
Video decoding	H.265 / H.264
Audio decoding	G.711A / G711U / G726
Synchronous playback	16CH
Decoding ability	16CH 1080P / 4CH 4K@30fps

Preview & playback

Synchronous preview	16
Multi-screen display	1, 4, 8, 9, 16 views
Record mode	Manual; schedule (general; MD; alarm; intelligent)
AI search	Search by target classification (human, vehicle, non-motor vehicle)
Backup	USB device
Playback function	1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (cut/file); partially enlarge; audio on/off

Alarm linkage

Record; snapshot; buzzer; log; preset; email

Network

Network protocol	HTTP; TCP/IP; IPv4; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; P2P; Auto register
Mobile	Android; iOS
Interoperability	ONVIF; SDK
Browser	IE8 or later

HDD

SATA / ESATA	8 / 1
Max capacity	14TB

External interface

Network	2 RJ-45 1000M
VGA	1
HDMI	2
USB	2 x 2.0 / 1 x 3.0
Audio input	1
Audio output	1

Alarm i/o	16/4
RS-232	1
RS-485	1

General

Front panel	U
Dimensions	2U 441 x 448 x 88 mm
Installation	Desktop / rack installation
Power supply	AC110V ~ 220V±10% 47Hz ~ 63Hz
Consumption	20W (without HDD/PoE)
Working temperature	-10°C to +55°C
Working humidity	10% ~ 90%

