alhua
TECHNOLOGY

DHI-NVR4216-4KS2/L
Network Video Recorder

- New 4.0 user interface
- Smart H.265+/ Smart H.264+
- P2P remote surveillance, video play on mobile device
- 8–ch@1080P(30fps), self-adaptive decoding capability
- Supports mainstream cameras of ONVIF and RTSP protocol
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
- Remote configuration and management of IPCs, such as setting parameters, acquiring information and upgrading IPCs of the same model in batches
- DHCP(Dynamic Host Configuration Protocol), HTTP(Hypertext Transfer Protocol), NTP(Network Time Protocol) and DDNS(Dynamic Domain Name System)

System Overview

This network video recorder is a highly cost-effective product, providing functions such as local live view, multi-screen display, real-time storage on local HDD, fast operation by mouse, remote management and control.

Application

This NVR is suitable for places such as retail stores, families, courtyards and public areas.

Functions

New User Interface
The new web and local GUI interface uses flat design which is more consistent with users' habits. Functional modules are divided clearer and easier to understand.

Decoding (Smart H.265+/Smart H.264+)
Dahua smart encoding (H.265+/ H.264+) is the optimized implementation of (H.265/H.264) codec that uses a scene-adaptive encoding strategy, providing more efficiency in the encoding process and higher video quality, and reducing the cost of storage and transmission significantly.
This NVR supports the corresponding decoding.

ONVIF

Technical Specification

System

Main Processor	Industrial-grade embedded processor
OS	Embedded Linux
Operation Interface	Web/operating in local GUI

Video

Access Channel	16 channels
Network Bandwidth	Output resolution under 1280 × 1024: 128 Mbps for access, 96 Mbps for storage and 64 Mbps for forwarding.
Resolution	8MP/5MP/4MP/3MP/1080P/720P/D1/CIF
Decoding Capability	2–ch@8MP(30FPS) or 3–ch@5MP(30FPS) or 4–ch@4MP(30FPS) or 5–ch@3MP(30FPS) or 8–ch@1080P(30FPS) or 16–ch@720P(30FPS)
Video Output	1 VGA/1 HDMI simultaneous video output, maximum resolution 4K
Multi-screen Display	1/4/8//9/16
Third Party Camera Access	ONVIF, RTSP

Compression

Video	Smart H.265+/H.265/Smart H.264+/H.264
Audio	G.711A/G.711U/PCM/G726

Network

Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, NTP, DHCP, DNS, P2P
Mobile Phone Access	iDMSS (iOS)/gDMSS (Android)
Access Standard	ONVIF (profile S), CGI, SDK
Browser	Chrome, IE9 or above, Firefox

Record Playback

Multi-channel Playback	Up to 16 channels playback
Record Mode	Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording
Storage	Local HDD
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

General Alarm	Motion detection, privacy masking, video loss, IPC alarm
Anomaly Alarm	Front-end device going offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly
Alarm Linkage	Video recording, snapshot, log, preset point, tour

External Port

HDD	2 SATA 2.0 ports, up to 6 TB for a single HDD
USB	1 front USB 2.0 port, 1 rear USB 2.0 port
HDMI	1
VGA	1
RCA Input	1
RCA Output	1
Alarm	4 alarm input ports, 2 alarm output ports
Network	1 RJ–45 port (10/100/1000 Mbps)

General Parameter

Power Supply	DC12V, 4A
Power Consumption	Total output of NVR is ≤ 10W (without HDD)
Net Weight	TBD
Gross weight	TBD
Dimensions	375 mm × 275 mm × 52 mm (W × L × H) 14.76 inch × 10.83 inch × 2.05 inch (W × L × H)
Packaging Dimensions	141 mm × 433 mm × 366 mm (W × L × H) 5.55 inch × 17.05 inch × 14.41 inch (W × L × H)
Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Storage Temperature	0°C to +40°C (+32°F to +104°F)
Operating Humidity	10%–90%
Storage Humidity	30%–85%
Operating Altitude	5000 m (16404 ft)
Installation	Desktop mounting

Dimensions (mm[inch])