Dahua TECHNOLOGY

DHI-NVR4204-P-4KS2/L

4 Channel 1U 4PoE 4K&H.265 Lite Network Video Recorder

- New UI interface with more easier operation experience
- Smart H.265+/ Smart H.264+
- P2P remote surveillance, video play on mobile device
- 4–ch@4MP(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.

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.

SMD by Camera

SMD refers to Smart Motion Detection. With Deep-Learning Algorithm, Dahua SMD Plus filters the motion detection alarm triggered by non-concerned target and recognize human and vehicle effectively, sending alarms when human and vehicle intrudes. Extract and classify human and vehicles from massive video data, easy for end users to trace historical information and analyze. Human & Vehicle optional for playback to achieve quick target search, saving event retrieval time.

Security Center

Security Center provides a whole picture of device security and helps protect the NVR with security scan, attack defense, certificate management, audio and video encryption and security settings. Security warnings will be sent trough many ways such as email, message, voice prompts.

4K Resolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

Intelligent Video System

Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels. The NVR records standard intelligence at-the-edge features, as well as premium IVS features that detect abandoned or missing objects, Tripwire violations, and intrusion violations. The NVR is also capable of recording business analysis data Facial Detection, People Counting, and Heat Map from IP cameras with built-in Intelligent Business Analytics.

Application

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

Technical Specification

System

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

Video

Access Channel	4 channels
Network Bandwidth	128 Mbps for access, 128 Mbps for storage and 64 Mbps for forwarding
Resolution	8MP/5MP/4MP/3MP/1080P/720P/D1/CIF
Decoding Capability	4–ch@4MP(30FPS)
Video Output	1 VGA/1 HDMI simultaneous video output, maximum resolution 4K
Multi-screen Display	1/4
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 4 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

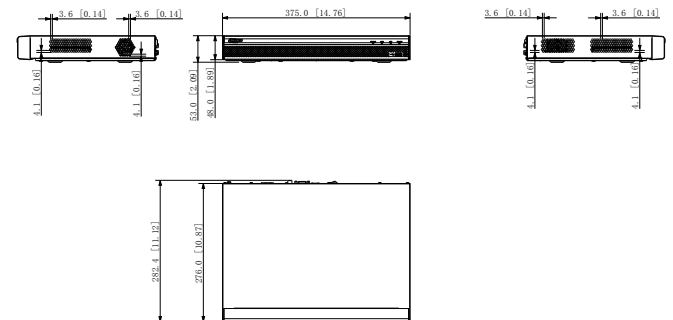### External Port

HDD	2 SATA ports, up to 8 TB for a single HDD. The maximum HDD capacity varies with environment temperature.
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), 4 RJ–45 ports with PoE power supply (10/100 Mbps)

General Parameter

Power Supply	DC48V/53V,1.5A/1.36A
Power Consumption	Total output of NVR is ≤ 10W (without HDD) Total output power of PoE is 36W, the maximum output power of a single port is 25.5W
Net Weight	1.58kg (3.48 lb) (without HDD)
Gross weight	2.93kg (6.46 lb) (without HDD)
Dimensions	375mm × 275mm × 52mm (W × L × H) 14.76 inch × 10.83 inch × 2.05 inch (W × L × H)
Packaging Dimensions	141mm × 433mm × 366mm (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	3000 m (9843 ft)
Installation	Desktop mounting
Certification	CE/FCC/UL

Dimensions (mm[inch])

Rear Panel