IDVACO

Ni22-04009H4 / Ni22-04016H4 / Ni22-04032H4
4K AI-Powered Network Video Recorder (4-Bay)

High Geared and Large Capaciy

Up to 32 channels

High decoding capability for
4 x 4K @ 30fps /
16 x 1080p @ 30fps

High-speed inbound and
outbound bandwidth

Simultaneous access up to
16 users

Storage capacity up to 32TB

Easy Installation

Built-in DHCP server with
self-organizing network

High Reliability with In-Depth Analysis

Linux embedded system

RAID 0/1/5/6/10

Automatic Network
Replenishment (ANR)

Loss Packet Recovery

Integrated with machine
learning algorithms

Real time multiple face
detection and recognition

Face image searching
function (up to 50,000 face
images database)

Other Highlights

HDMI / VGA output
simultaneously with different
content

E-Map, bi-directional audio,
broadcasting, Network
Address Translation (NAT)

Event trigger, response and
notification

ID Station, supports 128
NVR simultaneously

Simultaneous
multi-screening
(4 x Live viewing,
1 x E-Map)

TECHNICAL SPECIFICATIONS

VIDEO RECORDING AND INPUT

IP Camera Input	Model & Supported Channels: • Ni22-04009H4 – 9 channels • Ni22-04016H4 – 16 channels • Ni22-04032H4 – 32 channels
Inbound Bandwidth	Model & Bandwidth: • Ni22-04009H4 – 90Mbps • Ni22-04016H4 – 160Mbps • Ni22-04032H4 – 320Mbps
Resolutions	8MP(4K), 6MP, 5MP, 4MP, 3MP, 1080p, UXGA, 960p, 720p, XGA, SVGA, D1, CIF, QCIF
Compression	H.265, H.264
Compatibility	Onvif, RTSP
Bit rate	64kbps - 16384kbps
Recording Mode	Manual, Continuous, Schedule, Pre & Post Event
Supported Features	Event Trigger, Tagging, Automatic Network Replenishment (ANR)

LIVE STREAMING

Local Display	1 x HDMI, 1 x VGA, simultaneously output with different content
Local Display Layout Mode (Main / Sub)	• **Ni22-04009H4** 1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9 • **Ni22-04016H4 & Ni22-04032H4** 1/1, 4/4, 1+5/1+5, 1+7/1+7, 9/9, 16/16
PC Client Multi-Screen Display	Up to 4 screens simultaneously: 1 - 64 x multiple layouts
E-Map	Live viewing on E-Map (ID Station)
Live View Control	E-PTZ / Scheme (ID Station)

SEARCH AND PLAYBACK

Recording Search	Search by date, time and event
Playback & Synchronized Playback (PC Client)	4 streams x 4K at 30fps / 16 streams x 1080p at 30fps
Playback & Synchronized Playback (Web Client)	Up to 16 streams x 4K at 30fps
Playback Control	Slow forward / fast forward / loop / frame-by-frame / E-PTZ / time slice

RECORDING STORAGE

Internal	Max. 4 x 3.5" HDD Max. capacity per HDD: 8TB RAID: Supported RAID 0/1/5/6/10
External (Optional)	Max. 10 x IP SAN (iSCSI) Max. capacity: 100TB
Function	Disk group / disk quota / disk dormancy / database of face images

AUDIO

Audio Capability	Compression: G.711a/ G.711u/ ADPCM/ G.722/ AAC-LC/ G.722.1c Bitrate: 32kbps - 64kbps Audio Streaming: bi-directional / mute and dumb / broadcasting

ALERT AND NOTIFICATION

Service Alarm Triggers	Input alarm / video lost / motion detection / tamper detection / guardline and guard area detection/ defocus detection / suspicious incident (object left/ missing object)/ scene change detection/ crowd detection / audio surge / face matching
System Alarm Triggers	Device disconnected / network disconnected / no disk space / low disk space for recording and snapshot / disk read error / IP and MAC address conflict detected / low bandwidth
Event Triggers	Snapshot / recording / PTZ preset / buzzer / email / connect to client / alarm caption / live view pop-up / connect to video wall / connect second monitor/ full screen mode

VIDEO ANALYTICS

Face Tracking	Real-time / post-event import
Search Mode	Search by date and time / search by camera / face images database searching & matching
People Counter	Supported

SYSTEM

Operating System	Linux Embedded
User Account Management	Admin / User
User Access Management	User login / user activity log / alarm / backup / update
Application Programming	ID Station SDK
Max. Number of AI Camera	4 channels of AI cameras
Face Images Database	Up to 32 libraries with 50,000 pictures

NETWORK

Supported Protocols	IPv4, IPv6, TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, SNTP, VSIP, UPNP, SMTP
Operating Software	CMS (ID Station) / Web Browser/ iOS app / Android app
Max. User Access	16 Users
Outbound Bandwidth	256Mbps
Function	Network Address Translation / Multiple Network Access Point / Lost Packet Recovery / Self-Organizing Networks
Network Test	Supported

CONNECTORS

Network Connectivity	RJ-45 Connector with 3 x Gigabit network port
Video Out	1 x HDMI (up to 3840 x 2160 at 60Hz)
	1 x VGA (up to 1920 x 1080 at 60Hz)

CONNECTORS

Audio In / Out	1 x RCA input 1 x RCA output
Control	1 x RS485 1 x RS232
USB	2 x USB2.0 2 x USB3.0

GENERAL

Operating Conditions	Temperature: -10°C ~ 55°C / 14°F ~ 131°F Humidity: 10% to 85%
Power	100 - 240V AC, 50 - 60Hz, Max 25W (HDD not included)
Weight	13kg / 28.66lb (GWT)
Dimensions	443 x 461 x 88mm / 17.44'' x 18.15'' x 3.46''