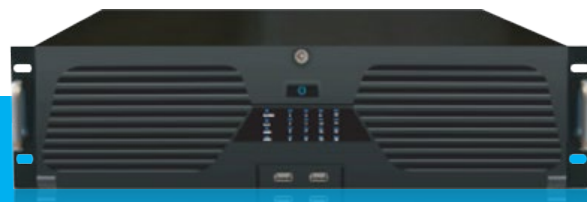# Network Video Recorder

UHN6400-H16S

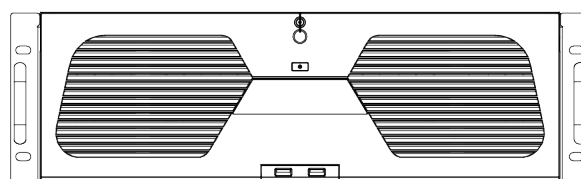**NVR | 64CH | 4K UHD | HDD 16bay | Hotswap**

Key Features
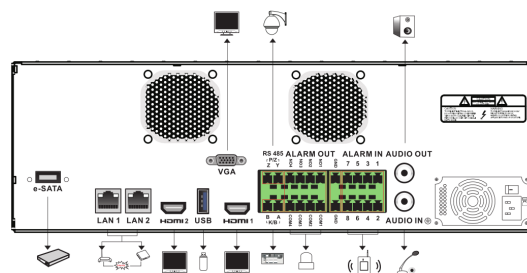
(* Marks- to be supported)

- · 64ch real-time recording & playback simultaneously
- · 320Mbps recording bandwidth
- · Max. 4K UHD input / output(HDMI)
- · Max. 3 monitor output / Spot monitor feature*
- · Support ONVIF Profile S
- · Support H.264, H.265* Dual Codec
- · Support 10TB HDD, 16 internal SATA HDDs, 1 eSATA*
- · Max. 128TB(SATA, eSATA), 256TB(UHS04R) recording capacity
- · Support Hotswap
- · Removable front panel structure
- · Support Camera auto detection and simple registration
  (Add Camera Wizard)
- · Integrated with specialized solutions
  (Alarm bell, Home Network, etc.)
- · Support wire-wireless USB keyboard connection
- · Support Remote DVR (Remote DVR/NVR control)
- · Industry-first HTML5 Web viewer

Dimension

(437×483×143mm)

<Font View>

<Rear View>

Tech Note

Onvif

- Support the latest version of standard ONVIF protocol, which makes it compatible with 3rd party's software and system.
- Complete compatibility test with more than 100 models from 40 manufacturers around the world. Support free integration for new models.

4K UHD

- Support 4M QHD (2x greater than Full-HD) and 4KUHD (4x greater than Full-HD) recording.
- Provide the best resolution image through 4K UHD(HDMI) output to 4K monitor.

Hotswap

- Hotswap NVR can open the front panel to add or replace HDD. Quick action for trouble shooting by adding or replacing HDD without shutting down the system.

Support HDD 16bay

- Max. 16 internal SATA HDDs provide sufficient storage capacity and efficient data management.
- Support external storage (UHS04R) to expand storage capacity up to 256TB and to configure RAID function.

Network Video Recorder

UHN6400-H16S

VIDEO INPUT

	Channel	64CH IP video input
Video input	Protocol	WESP, Onvif Profile S
	Format	H264, H265*
	Resolution	1st stream: 720p~4K 2nd stream: Max 960×540
	Performance	320Mbps
	Stream	RTSP over TCP, RTSP over HTTP
	PoE	Not supported

VIDEO OUTPUT

	Port	2HDMI, 1VGA
Video output	Format	HDMI1: 4K/1080p / HDMI2 : same as VGA VGA : 1920×1080, 1280×1024, 1024×768, 800×600
	Modes	Duplicate : HDMI1, HDMI2, VGA main Spot* : HDMI1 main, HDMI2 / VGA spot Main only : HDMI1 main, HDMI2 / VGA off
	Display	Main : 1, 4, 6, 9, 10, 13, 16, 25, 36, 64 split-screen Spot* : 1, 4, 9, 16 split-screen

RECORDING

Compression	H.264 / H.265*
Resolution	1st stream: 720p~4K 2nd stream: Max 960×540
Rate	Total 1920 fps, Max 30fps/ch @ 4K
Bitrate	1st stream : Max. 8Mbps 2nd stream : Max. 2Mbps
Mode	Manual&Event / Schedule&Event / Emergency
Schedule	24hrs / 7days

PLAYBACK

Mode	Instant Playback / Search
Speed	1x, 2x, 4x, 8x, 16x, 32x, 64x
Search type	Time/Calender, Event, Thumbnail(Time, Motion), Text
Block playback	1day ~ 99days

EVENT & ALARM

Event source	Motion detection, Sensor input, Video Loss, Text input, System
Event check Schedule	24hrs / 7days
Event action	Relay, Buzzer, E-mail, FTP, Video pop-up, Camera Preset, Mobile Alarm Push, System alarm
Text input	POS/ATM support, AVE VSI Pro/Hydra support

SYSTEM ALARM

Event source	HDD fail. HDD almost full, Password fail, WRS/DDNS fail, Recording Fail
Event action	Pop-up Message, Buzzer, E-mail, Relay, Mobile Alarm Push

AUDIO

Input/output	1 input(RCA Jack, Line-in, 1Vpp) / 1 output(HDMI1 & RCA)
Compression	G.711
Direction	Both

PTZ

Protocols	IP Camera with Onvif protocol & WESP protocol

NETWORK

Interface	2 Gigabit Ethernet RJ-45 port (10/100/1000Mbps)
Protocol	WESP, HTTP, RTSP/RTP, (Onvif), UPnP, RADIUS, TCP/IP, UDP, ARP, ICMP, DHCP, PPPoE, SMTP, SNMP, SNTP, TLS
DDNS	WNS, DynDNS, NoIP, WRS
TX Performance	100Mbps
NTP	Mode : Server / Clinet / Both Server : Public / Private
Users	10 Monitoring, 4 Playback, 1 Configuration tool
Service Streaming	Remote DVR

SECURITY

User level	1 admin, 10 users
User privilege	Menu, PTZ, Relay, Playback, Power off, Copy, Network MIC, Camera Setup
IP filtering	10 IP address ranges

STORAGE & BACKUP

Storage devices	16 SATA, eSATA HDDs(TBD)
RAID Level	External storage including network storage UHS04R (Level 1/5/10)
File system	Proprietary file system, Data-loss protection against power-failure
Capacity	Max. 128TB with eSATA, Max. 256TB with cascaded UHS04R 10TB HDD Supported (Recommended to use more than 3TB capacity HDDs)
Backup type	Multi-channel exe file, Single channel avi file, JPEG(Capture)
Backup device	2 USB 2.0 drive (front), 1 USB 3.0 drive (rear) FAT32(Max 32GB), NTFS
S.M.A.R.T.	Health checking and alarm, Reallocation sector monitoring and alarm

SERIAL & I/O

Serial port	1 RS-485
Sensor input	8 Dry-contacts + sensor of IP camera
Relay output	4 Relays

CONTROLLER

Device	Joystick Keyboard(option), Mouse

SOFTWARE

HTML5 Webviewer	Monitoring / Event / PTZ / Playback for browser supporting HTML5
ActiveX Webviewer	Monitoring / Event / PTZ / Playback for IE
Smart Phone App.	Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android
CMS	Control Center, Max. 1024 Units
SDK	ActiveX(COM) SDK

ENVIRONMENTAL & PHYSICAL

Dimension	437(W)×483(D)×143(H)mm
Weight	10.06kg (No HDD)
Operating Temperature	-10℃ ~ 55℃ (14°F ~ 141°F)
Operating Humidity	80% below, free of condensation
Power	AC 100~240V, 50/60Hz
Power Consumption	Max. 30W without HDD
Approval	KC, FCC, CE, RoHS

(* Marks- to be supported)

* Specifications are subject to change without notice for product improvement.