









CESSORY

# **Network Video Recorder**

# UHN3616P-H4

NVR I 36CH I PoE I 4K UHD I HDD 4bay



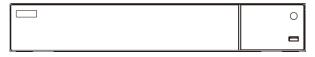
## **Key Features**

(\* Marks- to be supported)

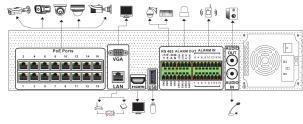
- $\cdot$  36ch real-time recording & playback simultaneously
- · 16 PoE Ports
- · 320Mbps recording bandwidth
- · Max. 4K UHD input / output(HDMI)
- · Support ONVIF Profile S
- · Support H.264, H.265\* Dual Codec
- · Support 10TB HDD, 4 internal SATA HDDs
- · Max. 128TB(SATA), 256TB(UHS04R) recording capacity
- · 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

(440×390×70mm)



<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.

#### **Auto IP / PoE**

- Support Auto IP feature that automatically adds IPC to NVR. Simply connect IPC to NVR's PoE port without any complicated network set up.
- Easy to install with embedded PoE switch that provides power to IPC through Ethernet cable.

#### Remote DVR Full control of remote DVR/NVR -Patent Application

- Share DVR/NVR's main output on PC and real-time remote control from DVR/NVR's OSD menu on PC.

# WEBGATE





CAMERA





SOFTWARE

**ACCESSORY** 

# Network Video Recorder



VIDEO INPUT		
Video input	Channel	36CH IP video input
	Protocol	WESP, Onvif Profile S
	Format	H264, H265*
	Resolution	1st stream: 720p~4K 2nd stream: Max. 720p
	Performance	320Mbps
	Stream	RTSP over TCP, RTSP over HTTP
	PoE	16 PoE ports (Max 12.95W/port, Total 150W)
VIDEO OUTPUT		
Video output	Port	1HDMI, 1VGA
	Format	HDMI: 4K/1080p VGA: 1920×1080, 1280×1024, 1024×768, 800×600
	Modes	Duplicate : HDMI, VGA main Spot* : HDMI main, VGA spot Main only : HDMI main, VGA off
	Display	Main: 1, 4, 6, 9, 10, 13, 16, 25, 36 split-screen Spot* : 1, 4, 9, 16 split-screen
RECORDING		
Compression	H.264 / H.265*	
Resolution	1st stream: 720p~4K 2nd stream: Max 720p	
Rate	Total 1080 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 & ALARN		
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	1	
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(HDMI & RCA)	
Compression	G.711	
Direction	Both	
PTZ		
Protocols	IP Camera with Onvif protocol & WESP protocol	

NETWORK   Interface			
Protocol UDP, ARP, ICMP, DHCP, PPPOE, SMTP, SNMP, STP, 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 Charles Streaming 10 IP address ranges  STORAGE & BACKUP  Storage devices 4 SATA HDDS  External storage including network storage UHS04R (Level 1/5/10)  File system Proprietary file system, Data-loss protection against power-failure  Proprietary file system, Data-loss protection against power-failure  Max. 128TB with SATA, Max. 256TB with cascaded UHS04R (10 HDD Supported (Recommended to use more than 3TB capacity HDDs)  Backup type Multi-channel exe file, Single channel avi file, JPEG(Capture)  1 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 Monitoring / Event / PTZ / Playback for browser supporting HTML5  Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android  CMS Control Center, Max. 1024 Units  SDK ActiveX (MolV)×390(D)×70(H)mm  Weight 4,7kg (No HDD)  Operating Hower Act 200-240V, 50/60Hz  Power AC 100-240V, 50/60Hz  Power Consumption Max. 30W without HDD	NETWORK		
DDNS WNS, DynDNS, NoIP, WRS TX Performance 100Mbps NTP Mode : Server / Clinet / Both Service Streaming Remote DVR 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 4 SATA HDDS RAID Level 1/5/10) File system Proprietary file system, Data-loss protection against power-failure  Max. 128TB with SATA, Max. 256TB with cascaded UHS04R (1018 HDD Supported (Recommended to use more than 3TB capacity HDDs) Backup type Multi-channel eve file, Single channel avi file, PPEG(Capture) Backup device 1 USB 2.0 drive (front), 1 USB 3.0 drive (rear) FAT32(Max. 326B), NTES 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 Monitoring / Event / PTZ / Playback for browser supporting HTML5 ActiveX Webviewer Monitoring / Event / PTZ / Playback for IE Smart Phone Amdroid CMS Control Center, Max. 1024 Units SDK ActiveX(COM) SDK ENVIRONMENTAL & PHYSICAL Dimension 440(W)×390(D)×70(H)mm  Weight 4,7kg (No HDD) Operating Hower Consumption Max. 30W without HDD	Interface	1 Gigabit Ethernet RJ-45 port (10/100/1000Mbps)	
TX Performance 100Mbps NTP	Protocol	WESP, HTTP, RTSP/RTP, (Onvif), UPnP, RADIUS, TCP/IP,	
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 4 SATA HDDs  RAID Level 1/5/10)  File system Proprietary file system, Data-loss protection against power-failure  Max. 128TB with SATA, Max. 256TB with cascaded UHSO4R (10TB HDD Supported (Recommended to use more than 3TB capacity HDDs)  Backup type Multi-channel exe file, Single channel avi file, JPEG(Capture)  1 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 8 Dry-contacts + sensor of IP camera  Relay output 4 Relays  CONTROLLER  Device Joystick Keyboard(option), Mouse  SOFTWARE  HTML5 Monitoring / Event / PTZ / Playback for browser supporting HTML5  ActiveX Wonitoring / Event / PTZ / Playback for lE  Smart Phone Android  CMS Control Center, Max. 1024 Units  SDK ActiveX (COM) SDK  ENVIRONMENTAL & PHYSICAL  Dimension 440(W)×390(D)×70(H)mm  Weight 4,7kg (No HDD)  Operating Humidity 80% below, free of condensation  Max. 30W without HDD	DDNS		
Users 10 Monitoring, 4 Playback, 1 Configuration tool Service Streaming Remote DVR  SECURITY User level 1 admin, 10 users  Menu, PTZ, Relay, Playback, Power off, Copy, Network MIC, Camera Setup IP filtering 10 IP address ranges  STORAGE & BACKUP  Storage devices 4 SATA HDDs  RAID Level 7/5/10)  File system Proprietary file system, Data-loss protection against power-failure Max. 128TB with SATA, Max. 256TB with cascaded UHSO4R (Recommended to use more than 3TB capacity HDDs)  Backup type Multi-channel exe file, Single channel avi file, JPEG(Capture)  Backup device 1 USB 2.0 drive (front), 1 USB 3.0 drive (rear) FAT32(Max 32GB), NTFS  S.M.A.R.T. Halth checking and alarm, Reallocation sector monitoring and alarm  SERIAL & I/O  Serial port 8 Dry-contacts + sensor of IP camera Relay output 4 Relays  CONTROLLER  Device Joystick Keyboard(option), Mouse  SOFTWARE  HTML5 Monitoring / Event / PTZ / Playback for browser supporting HTML5  ActiveX Webviewer Monitoring / Event / PTZ / Playback for IE  Smart Phone Monitoring / Event / PTZ / Playback for IE  Smart Phone Android  CMS Control Center, Max. 1024 Units  SDK  ActiveX(COM) SDK  ENVIRONMENTAL & PHYSICAL  Dimension 440(W)×390(D)×70(H)mm  Weight 4,7kg (No HDD)  Operating Humidity 80% below, free of condensation  Max. 30W without HDD	TX Performance	100Mbps	
Service Streaming 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 4 SATA HDDS RAID Level External storage including network storage UHS04R (Level 1/5/10) File system Proprietary file system, Data-loss protection against power-failure Max. 128TB with SATA, 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 1 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 4 Relay output 4 Relays CONTROLLER Device Joystick Keyboard(option), Mouse SOFTWARE HTML5 HMOIstoring / Event / PTZ / Playback for browser supporting HTML5 Webviewer Monitoring / Event / PTZ / Playback for IE Smart Phone Monitoring / Event / PTZ / Playback for IE Smart Phone With iPhone & Android CMS Control Center, Max. 1024 Units SDK ActiveX(COM) SDK ENVIRONMENTAL & PHYSICAL Dimension 440(W)×390(D)×70(H)mm Weight A,7kg (No HDD) Operating Humidity Power AC 100~240V, 50/60Hz Power Consumption Max. 30W without HDD	NTP		
Streaming 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 4 SATA HDDs  RAID Level 1/5/10) File system Proprietary file system, Data-loss protection against power-failure Max. 128TB with SATA, Max. 256TB with cascaded UHS04R (Recommended to use more than 3TB capacity HDDs) Backup type Multi-channel exe file, Single channel avi file, JPEG(Capture) Backup device 1 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 Monitoring / Event / PTZ / Playback for browser supporting Webviewer HTML5 Monitoring / Event / PTZ / Playback for IE Smart Phone Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android CMS Control Center, Max. 1024 Units SDK ActiveX (COM) SDK ENVIRONMENTAL & PHYSICAL Dimension 440(W)×390(D)×70(H)mm Weight 4.7kg (No HDD) Operating Humidity Power AC 100~240V, 50/60Hz Power Consumption Max. 30W without HDD	Users	10 Monitoring, 4 Playback, 1 Configuration tool	
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Description   Camera Setup     Pfiltering   10 IP address ranges	User level	1 admin, 10 users	
STORAGE & BACKUP  Storage devices   A SATA HDDs  RAID Level	User privilege		
Storage devices   RAID Level	IP filtering	10 IP address ranges	
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File system  Proprietary file system, Data-loss protection against power-failure  Max. 128TB with SATA, 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  1 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  Monitoring / Event / PTZ / Playback for browser supporting HTML5  ActiveX  Webviewer  Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android  CMS  Control Center, Max. 1024 Units  SDK  ActiveX(COM) SDK  ENVIRONMENTAL & PHYSICAL  Dimension  440(W)×390(D)×70(H)mm  Weight  4.7kg (No HDD)  Operating Temperature  Operating Humidity  80% below, free of condensation  Max. 30W without HDD	Storage devices	4 SATA HDDs	
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Backup device    1 USB 2.0 drive (front), 1 USB 3.0 drive (rear) FAT32(Max 32GB), NTFS   5.M.A.R.T.	Capacity	10TB HDD Supported	
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Sensor input 8 Dry-contacts + sensor of IP camera  Relay output 4 Relays  CONTROLLER  Device Joystick Keyboard(option), Mouse  SOFTWARE  HTML5 Monitoring / Event / PTZ / Playback for browser supporting HTML5  ActiveX Webviewer Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android  CMS Control Center, Max. 1024 Units  SDK ActiveX(COM) SDK  ENVIRONMENTAL & PHYSICAL  Dimension 440(W)×390(D)×70(H)mm  Weight 4.7kg (No HDD)  Operating Temperature 5°C ~ 45°C (41°F ~ 113°F)  Operating Humidity 80% below, free of condensation  Power AC 100~240V, 50/60Hz  Power Consumption Max. 30W without HDD	SERIAL & I/O		
Relay output 4 Relays  CONTROLLER  Device Joystick Keyboard(option), Mouse  SOFTWARE  HTML5 Monitoring / Event / PTZ / Playback for browser supporting Webviewer 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 440(W)×390(D)×70(H)mm  Weight 4.7kg (No HDD)  Operating Temperature 5°C ~ 45°C (41°F ~ 113°F)  Operating Humidity 80% below, free of condensation  Power AC 100~240V, 50/60Hz  Power Consumption Max. 30W without HDD	Serial port	1 RS-485	
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SOFTWARE  HTML5  Monitoring / Event / PTZ / Playback for browser supporting Webviewer  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  440(W)×390(D)×70(H)mm  Weight  4.7kg (No HDD)  Operating Temperature  Operating Humidity  Power  AC 100~240V, 50/60Hz  Power Consumption  Max. 30W without HDD	CONTROLLER		
Webviewer 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 440(W)×390(D)×70(H)mm  Weight 4.7kg (No HDD)  Operating Temperature 5°C ~ 45°C (41°F ~ 113°F)  Operating Humidity 80% below, free of condensation  Power AC 100~240V, 50/60Hz  Power Consumption Max. 30W without HDD		Joystick Keyboard(option), Mouse	
Webviewer  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  440(W)×390(D)×70(H)mm  Weight  4.7kg (No HDD)  Operating Temperature  Operating Humidity  Power  AC 100~240V, 50/60Hz  Power Consumption  Monitoring / Event / P12 / Playback for IE  Monitoring / Event / P12 / Playback for IE  Monitoring / Event / P12 / Playback for IE  Monitoring / Event / P12 / Playback for IE  Monitoring / Event / P12 / Playback for IE  Monitoring / Event / P12 / Playback for IE  Monitoring / Event / P12 / Playback for IE  Monitoring for In  Monitoring / Playback for II  Monitoring for In  Monitoring for II  Monitoring			
App. with iPhone & Android  CMS Control Center, Max. 1024 Units  SDK ActiveX(COM) SDK  ENVIRONMENTAL & PHYSICAL  Dimension 440(W)×390(D)×70(H)mm  Weight 4.7kg (No HDD)  Operating Temperature 5°C ~ 45°C (41°F ~ 113°F)  Operating Humidity 80% below, free of condensation  Power AC 100~240V, 50/60Hz  Power Consumption Max. 30W without HDD		Monitoring / Event / PTZ / Playback for IE	
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Humidity  Power  AC 100~240V, 50/60Hz  Power  Consumption  AC 30W without HDD	1 3	5°C ~ 45°C (41°F ~ 113°F)	
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Approval KC, FCC, CE, RoHS		Max. 30W without HDD	
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(\* Marks- to be supported)



<sup>\*</sup> Specifications are subject to change without notice for product improvement.