# Network Video Recorder

# UHN1616P-H2-V3

**NVR** l **16CH** l **PoE** l **4K UHD** l **HDD 2bay**
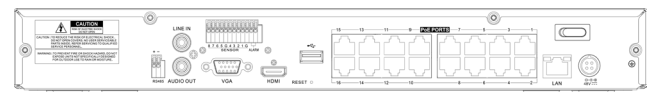
## Key Features

(* Marks- Scheduled to be supported)

· 16ch real-time recording & playback simultaneously
· 16 PoE Ports
· 96Mbps(*) recording bandwidth
· Max. 4K UHD input / output(HDMI)
· Support ONVIF Profile S
· Support H.264, H.265 Dual Codec
· Support 12TB HDD, 2 internal SATA HDDs
· 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

(380×340×50mm)

<Front 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.

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## VIDEO INPUT

| | | |
|---|---|---|
| Video input | Channel | 16CH IP video input |
| | Protocol | WESP, Onvif Profile S |
| | Format | H.264, H.265 |
| | Resolution | 1st stream: 720p~4K<br>2nd stream: Max D1 |
| | Performance | 96Mbps (TBD) |
| | Stream | RTSP over TCP, RTSP over HTTP |
| | PoE | 16 PoE ports (Max 15.4W/port, Total 156 W) |
| | PoE Mode | midspan |

## VIDEO OUTPUT

| | | |
|---|---|---|
| Video output | Port | 1HDMI, 1VGA |
| | Format | HDMI : 4K, 1080p<br>VGA : 1920×1080, 1280×1024, 1024×768 |
| | Modes | Duplicate : HDMI, VGA main |
| | Display | Main: 1, 4, 6, 9, 10, 13, 16 split-screen |

## RECORDING

| | |
|---|---|
| Compression | H.264 / H.265 |
| Resolution | 1st stream: 720p~4K<br>2nd stream: Max D1 |
| Rate | Total 480 fps, Max 30fps/ch @ 4K |
| Bitrate | 1st stream : Max. 8Mbps<br>2nd stream : Max. 2Mbps |
| Mode | Manual&Event / Schedule&Event / Emergency |
| Schedule | 24hrs / 7days |

## PLAYBACK

| | |
|---|---|
| Mode | Instant Playback / Search |
| Speed | 1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x, 32x, 64x |
| Search type | Time/Calender, Event, Thumbnail(Time, Motion), Text |
| Block playback | 1day ~ 365days |

## EVENT & ALARM

| | |
|---|---|
| Event source | Motion detection, Sensor input, Video Loss, Text input, AI, System |
| Event check Schedule | 24hrs / 7days |
| Event action | 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, Mobile Alarm Push |

## AUDIO

| | |
|---|---|
| Input/output | 1 RCA (1 Vpp) input / HDMI & RCA output |
| Compression | G.711 |
| Direction | Both |

## PTZ

| | |
|---|---|
| Protocols | IP Camera with Onvif protocol & WESP protocol |

## NETWORK

| | |
|---|---|
| Interface | 1 Gigabit Ethernet RJ-45 port (10/100/1000Mbps) |
| Protocol | WESP, HTTP, RTSP/RTP, (Onvif), UPnP, TCP/IP, UDP, ARP, ICMP, DHCP, SMTP, SNMP, SNTP, TLS |
| DDNS | WNS, DynDNS, NoIP, WRS |
| TX Performance | 78Mbps |
| NTP | Mode : Server / Clinet / Both<br>Server : Public / Private |
| Users | 10 Monitoring, 4 Playback, 1 Configuration tool |
| TLS | Supported |
| Service Streaming | Remote DVR |

## SECURITY

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

## STORAGE & BACKUP

| | |
|---|---|
| Storage devices | 2 SATA HDDs |
| RAID Level | Not supported |
| File system | High-performance proprietary file system<br>Data-loss protection against power interrupt |
| Capacity | 12TB HDD Supported per SATA Port |
| Backup type | Multi-channel exe file, Single channel avi file, JPEG(Capture) |
| Backup device | 2 USB 2.0 drive (1 front, 1 rear)<br>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 | 1 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 | 380(W)×340(D)×50(H)mm |
| Weight | 2.3kg (No HDD) |
| Operating Temperature | 0℃ ~ 40℃ (32°F ~ 104°F) |
| Operating Humidity | 90% below, free of condensation |
| Power | DC48V 3.75A, 50/60Hz |
| IPFR | Not supported |
| Power Consumption | Max 8W without HDD (TBD) |
| Approval(*) | KC, FCC, CE |