



## Network Video Recorder

# UHN1600-H6R



NVR | 16CH | 4K UHD | HDD 6bay | RAID

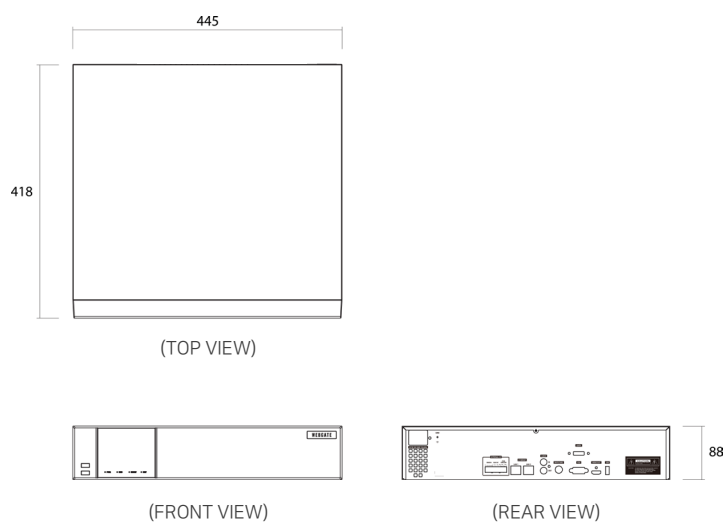
### Key Features

(\* Marks- Scheduled to be supported)

- 16ch 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 12TB HDD, 6 internal SATA HDDs, 1 eSATA
- Support RAID(Level 1/5/10)
- Max. 128TB(SATA, eSATA), 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

(445×418×88mm)



### 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.

#### RAID Improve reliability of record data

- Protect recording data in case of HDD failure by duplicated data storing or/and by processing of pre-assigned parity bits.
- Non RAID NVR also can use RAID function and expand storage capacity together with external storage (UHS04R).

#### 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.



DVR/NVR



CAMERA



ACCESSORY



SOFTWARE

## Network Video Recorder

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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 960×540                                  |
|                      | Performance  | 320Mbps   |
|                      | Stream   | RTSP over TCP, RTSP over HTTP   |
|                      | PoE  | Not supported   |
| PoE Mode             | Not supported  |   |
| VIDEO OUTPUT         |  |   |
| Video output         | Port   | 1 HDMI, 1 VGA, 1 CVBS   |
|                      | Format   | HDMI1: 4K/1080p<br>VGA : 1920×1080, 1280×1024, 1024×768, 800×600                |
|                      | Modes  | Duplicate : HDMI, VGA main<br>Spot : VGA spot, CVBS spot                        |
|                      | Display  | Main : 1, 4, 6, 9, 10, 13, 16split-screen<br>Spot(*) : 1, 4, 9, 16 split-screen |
| RECORDING            |  |   |
| Compression          | H.264 / H.265  |   |
| Resolution           | 1st stream: 720p~4K<br>2nd stream: Max 960×540   |   |
| Rate                 | Total 1920 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/Calendar, 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         | 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 RCA (1 Vpp) input / HDMI & RCA output  |   |
| Compression          | G.711u   |   |
| 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           | 78Mbps  |
| NTP                      | Mode : Server / Client / 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, Relay, Playback, Power off, Copy, Network MIC, Camera Setup  |
| IP filtering             | 10 IP address ranges  |
| STORAGE & BACKUP         |   |
| Storage devices          | 6 SATA, 1 eSATA HDDs  |
| RAID Level               | Level 1/5/10<br>(For internal HDD, max 5 HDDs can be used as RAID)<br>External storage including network storage UHS04R(Level 1/5/10) |
| File system              | High-performance proprietary file system<br>Data-loss protection against power interrupt<br>Safe HDD head parking in power failure    |
| Capacity                 | Max. 128TB with eSATA, Max. 256TB with cascaded UHS04R<br>12TB HDD Supported per SATA Port  |
| Backup type              | Multi-channel exe file, Single channel avi file, JPEG(Capture)  |
| Backup device            | 3 USB 2.0 drive (front 2, rear 1)<br>FAT32(Max 32GB), NTFS  |
| S.M.A.R.T.               | Health checking and alarm, Reallocation sector monitoring and alarm   |
| SERIAL & I/O             |   |
| Serial port              | 2 RS-485  |
| Sensor input             | 4 Dry-contacts + sensor of IP camera  |
| Relay output             | 2 Relays  |
| CONTROLLER               |   |
| Device                   | Joystick Keyboard(option), Mouse, IR remote controller  |
| 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                | 445(W)×418(D)×88(H)mm   |
| Weight                   | 5.46kg (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  |
| IPFR                     | Supports IPFR (Intelligent Power Failure Recovery)  |
| Power Consumption        | Max 13W without Storage   |
| Approval                 | KC  |

QA1.20

(\* Marks- Scheduled to be supported)

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