

# XRN-420S

4CH NVR



## Key Features

- Up to 4CH, 8MP camera supported
- H.265, H.264, MJPEG codec
- AI Search: Object Attribute (When integrated with Wisenet AI Camera)
- 50Mbps network camera recording
- Plug & play by 4 PoE (LAN, 10/100), 1 PoE (WAN, 1Gbps)
- Max. 1HDD (Max. 6TB)
- HDMI / VGA local monitor
- ARB supported
- P2P service (QR code connect) support

| Display                |                       |                                                                                                                                                                                          |
|------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network camera         | Inputs                | Max. 4CH                                                                                                                                                                                 |
|                        | Resolution            | 8MP ~ CIF                                                                                                                                                                                |
|                        | Protocols             | SUNAPI, ONVIF                                                                                                                                                                            |
| Decoding               | Local Display         | HDMI, VGA                                                                                                                                                                                |
|                        | Multi Screen Display  | [Dual Monitor] 1/ 2V/ 2H/ 3V/ 4/ Sequence<br>[Web] 1/ 2V/ 2H/ 3V/ 4                                                                                                                      |
|                        | Resolution            | [Local Monitor]<br>8M(30fps), 1080p(120fps), 720P(120fps), D1(120fps)                                                                                                                    |
| Performance            |                       |                                                                                                                                                                                          |
| Operating System       | Embedded              | Linux                                                                                                                                                                                    |
| Record                 | Compression           | H.265, H.264, MJPEG                                                                                                                                                                      |
|                        | Recording Bandwidth   | Max. 50Mbps                                                                                                                                                                              |
|                        | Resolution            | 8MP ~ CIF                                                                                                                                                                                |
|                        | Mode                  | Normal, Dual Stream, Schedule(Continuous/Event), Event (Pre/Post), Bookmark                                                                                                              |
|                        | Event Trigger         | Alarm Input, Video Loss, Camera Event(Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event                                                                                        |
|                        | Event Action          | e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out                                                                                                                           |
| Search & Play          | Playback Bandwidth    | Max. 32Mbps                                                                                                                                                                              |
|                        | User                  | Max. 4 Users (Local 1, Remote 3)                                                                                                                                                         |
|                        | Simultaneous playback | Max. 16CH(Local 4CH, Remote 4CH per user)                                                                                                                                                |
|                        | Fisheye Dewarping     | CMS                                                                                                                                                                                      |
|                        | Mode                  | Date & Time(Calendar), Event list, Text Search, Smart Search                                                                                                                             |
|                        | Resolution            | CIF ~ 8MP                                                                                                                                                                                |
|                        | Playback Control      | Fast/Slow Forward / Backward, Move one step Up / Down                                                                                                                                    |
| Storage                | Supported HDD         | Up to 6TB                                                                                                                                                                                |
|                        | HDD Slot              | SATA 1ea(Max. 6TB)                                                                                                                                                                       |
| Backup                 | File backup           | BU/Exe(GUI), JPG/AVI(Network)                                                                                                                                                            |
|                        | Function              | Multi channel(Up to 4CH) Play, Date-Time/Title display                                                                                                                                   |
| Network                |                       |                                                                                                                                                                                          |
| Protocol               |                       | IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client) |
| DDNS                   |                       | Hanwha DDNS                                                                                                                                                                              |
| Transmission Bandwidth |                       | Max. 64Mbps                                                                                                                                                                              |
| Audio                  | Input/Output          | 4CH (network)/output (Set)                                                                                                                                                               |
|                        | Compression           | G.711, G.726, AAC(16/48KHz)                                                                                                                                                              |
|                        | Audio Communication   | 2-Way                                                                                                                                                                                    |

|                  |                   |                                                                                                                          |
|------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------|
| Max Remote Users |                   | Search(3), Live Unicast(10), Multicast(20)                                                                               |
| Security         |                   | IP address filtering, User access Log, 802.1x, Encryption<br>Device certificate(Hanwha Techwin Root CA), Signed firmware |
| Web viewer       | Supported OS      | Windows 10, macOS 10.13                                                                                                  |
|                  | Supported browser | Google Chrome, Microsoft Edge, Mac Safari                                                                                |
| Viewer Software  |                   | WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile<br>Support CGI(SUNAPI) for integration to 3'rd party VMS              |

## Functions

|                    |                   |                                                                                                                                                                                                                                                                                      |
|--------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Setup       | Register          | Auto, Manual                                                                                                                                                                                                                                                                         |
|                    | Item              | IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup (4, 8 point polygon)<br>Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage |
| PTZ                | Control           | Via GUI, Webviewer                                                                                                                                                                                                                                                                   |
|                    | Preset            | 300 Presets                                                                                                                                                                                                                                                                          |
| Smart phone        | Support Model     | iOS, Android                                                                                                                                                                                                                                                                         |
|                    | Protocol Support  | RTP, RTSP, HTTP, CGI(SUNAPI)                                                                                                                                                                                                                                                         |
|                    | Control           | Live 4CH(Multi-Profile Support), Playback 4CH                                                                                                                                                                                                                                        |
|                    | Max. Remote Users | Search(3), Live Unicast(10)                                                                                                                                                                                                                                                          |
| Redundancy         | Failover          | N+1                                                                                                                                                                                                                                                                                  |
|                    | ARB               | Support                                                                                                                                                                                                                                                                              |
| Easy configuration |                   | P2P(QR code)                                                                                                                                                                                                                                                                         |

## Interface

|             |           |                                                     |
|-------------|-----------|-----------------------------------------------------|
| Front       | Indicator | Power, Record, Network                              |
| Storage     |           | OK                                                  |
| Reset       |           | Support                                             |
| HDMI        |           | 1EA 3840x2160 30Hz                                  |
| VGA         |           | 1EA 1920x1080 30Hz                                  |
| Audio       |           | Out 1EA                                             |
| Ethernet    |           | PoE RJ-45(LAN, 10/100) 4 ea ,RJ-45 1ea (WAN, 1Gbps) |
| Alarm       |           | In 4EA, Out 2EA                                     |
| USB         |           | 2EA(Front 1 x USB 2.0, Rear 1 x USB 2.0)            |
| Power inlet |           | DC Adaptor                                          |

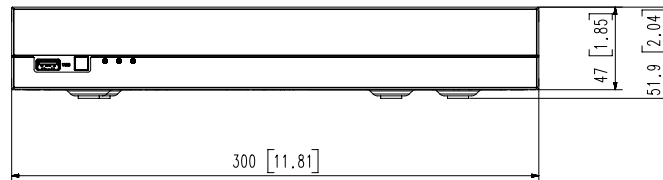
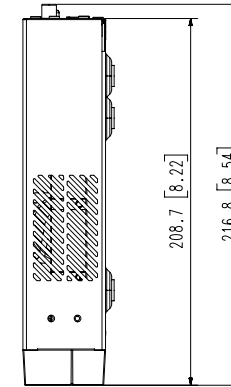
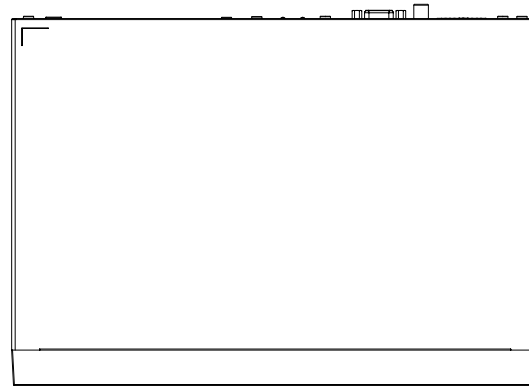
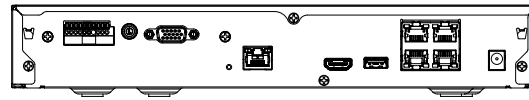
## System

|                |          |                                                                                                                                                                                                                                |
|----------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Log            | Log List | Max. 100,000 (System Log, Event Log each)                                                                                                                                                                                      |
| System Control |          | Mouse, Web                                                                                                                                                                                                                     |
| Language       |          | English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese |

## Environmental

|                       |                  |                                                    |  |
|-----------------------|------------------|----------------------------------------------------|--|
| Operating Temperature |                  | 0°C to +40°C(32°F to 104°F)                        |  |
| Operating Humidity    |                  | 20% ~ 85% RH                                       |  |
| Electrical            |                  |                                                    |  |
| Power Input           |                  | 100 ~ 240 VAC ± 10%; 50/60 Hz                      |  |
| Power Consumption     |                  | Max 67W(1HDD, PoE On)                              |  |
| PoE Budget            |                  | 50W                                                |  |
| Mechanical            |                  |                                                    |  |
| Color / Material      |                  | Black / Metal                                      |  |
| Dimension (WxHxD)     |                  | 300.0 x 47.1 x 208.4 mm (11.81 x 1.85 x 8.20 inch) |  |
| Weight                |                  | 1.06Kg (2.33lb)                                    |  |
| Intelligent Analysis  |                  |                                                    |  |
| AI Search             | Object Attribute | Compatible for Wisenet AI Camera                   |  |

- The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.



|                |            |           |
|----------------|------------|-----------|
| 3              |            |           |
| 2              |            |           |
| 1              | XRN-420S   | '21.06.01 |
| No.            | MODEL NAME | DATE      |
| Unit:mm[inch]  |            | SCALE:1/2 |
| Hanwha Techwin |            |           |

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