



# QRN-430S

4CH NVR



## Key Features

- Up to 4CH 8MP resolution
- H.265, H.264, MJPEG codec
- 40Mbps network camera recording
- Plug & play by 4 PoE port
- Max. 1 HDD (Up to 6TB)
- HDMI output
- P2P service (QR code)

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## Specifications

| Display          |                       |                                                                                                   |
|------------------|-----------------------|---------------------------------------------------------------------------------------------------|
| Network camera   | Inputs                | Max. 4CH                                                                                          |
|                  | Resolution            | 8MP ~ CIF                                                                                         |
|                  | Protocols             | SUNAPI, ONVIF                                                                                     |
| Decoding         | Local Display         | HDMI                                                                                              |
|                  | Multi Screen Display  | [Local Monitor] 1/ 2V/ 2H/ 3V/ 4/ Sequence<br>[Web] 1/ 2V/ 2H/ 3V/ 4                              |
|                  | Resolution            | [Local Monitor]<br>8M(30fps), 1080p(4ch@30fps), 720P(4ch@30fps), D1(4ch@30fps)                    |
| Performance      |                       |                                                                                                   |
| Operating System | Embedded              | Linux                                                                                             |
| Record           | Compression           | H.265, H.264, MJPEG                                                                               |
|                  | Recording Bandwidth   | Max. 40Mbps                                                                                       |
|                  | 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

|                         |                     |                                                                                                                                                                                          |
|-------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protocol</b>         |                     | 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) |
| <b>DDNS</b>             |                     | Hanwha DDNS                                                                                                                                                                              |
| <b>Audio</b>            | Input/Output        | 4 CH(network)                                                                                                                                                                            |
|                         | Compression         | G.711, G.726, AAC(16/48KHz)                                                                                                                                                              |
|                         | Audio Communication | 2-Way                                                                                                                                                                                    |
| <b>Max Remote Users</b> |                     | Search(3), Live Unicast(10), Multicast(20)                                                                                                                                               |
| <b>Web viewer</b>       | Supported OS        | Windows 10, macOS 10.13                                                                                                                                                                  |
|                         | Supported browser   | Google Chrome, Microsoft Edge, Mac Safari                                                                                                                                                |
| <b>Viewer Software</b>  |                     | WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS                                                                                 |

## Function

|                           |                   |                                                                                                                                                                                                                                                                                     |
|---------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Camera Setup</b>       | 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, SSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage |
| <b>PTZ</b>                | Control           | Via GUI, Webviewer                                                                                                                                                                                                                                                                  |
|                           | Preset            | 300 Presets                                                                                                                                                                                                                                                                         |
| <b>Smart phone</b>        | 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)                                                                                                                                                                                                                                                         |
| <b>Redundancy</b>         | Failover          | N+1                                                                                                                                                                                                                                                                                 |
|                           | ARB               | Support                                                                                                                                                                                                                                                                             |
| <b>Easy configuration</b> |                   | P2P(QR code)                                                                                                                                                                                                                                                                        |

## Interface

|                    |           |                                                     |
|--------------------|-----------|-----------------------------------------------------|
| <b>Front</b>       | Indicator | Power, Record, Network                              |
| <b>Storage</b>     |           | OK                                                  |
| <b>Reset</b>       |           | Support                                             |
| <b>HDMI</b>        |           | 1EA 3840x2160 30Hz                                  |
| <b>Ethernet</b>    |           | PoE RJ-45(LAN, 10/100) 4ea, RJ-45 1ea (WAN, 10/100) |
| <b>USB</b>         |           | 2EA(Front 1 x USB 2.0, Rear 1 x USB 2.0)            |
| <b>Power inlet</b> |           | DC Adaptor                                          |

## System

|            |          |                                           |
|------------|----------|-------------------------------------------|
| <b>Log</b> | Log List | Max. 100,000 (System Log, Event Log each) |
|------------|----------|-------------------------------------------|

## System

|                |                                                                                                                                                                                                                                |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 $\pm$ 10%, 50/60Hz |
| Power Consumption | Max. 52W(1HDD, PoE On)           |
| PoE Budget        | 35W                              |

## Mechanical

|                  |                                                    |
|------------------|----------------------------------------------------|
| Color / Material | Black / Metal                                      |
| Dimension        | 300.0 x 47.1 x 208.4 mm (11.81 x 1.85 x 8.20 inch) |
| Weight           | 1.03Kg(2.27lb)                                     |

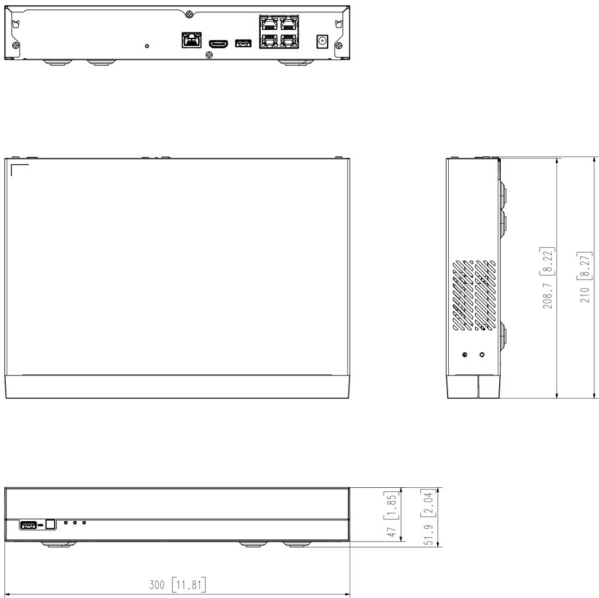
# QRN-430S

4CH NVR



CAD

Unit: mm [inch]



|               |            |                                                                                       |
|---------------|------------|---------------------------------------------------------------------------------------|
| 3             |            |                                                                                       |
| 2             |            |                                                                                       |
| 1             | QRN-430S   | '21.06.01                                                                             |
| No.           | MODEL NAME | DATE                                                                                  |
| Unit:mm[inch] | SCALE:1/2  |  |

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