

# QRN-830S

8CH NVR

## Key Features

- Up to 8CH, 8MP camera supported
- H.265, H.264, MJPEG codec
- 80Mbps network camera recording
- Plug & play by 8PoE(LAN, 10/100), 1PoE(WAN, 1Gbps)
- SATA 1ea(up to 6TB)
- ARB supported
- P2P service (QR code connect) supported

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8CH NVR



## Specifications

### Display

| | | |
|---|---|---|
| **Network camera** | Inputs | Max. 8CH |
| | Resolution | 8MP ~ CIF |
| | Protocols | SUNAPI, ONVIF |
| **Decoding** | Local Display | HDMI1: 3840x2160(30Hz),<br>HDMI2: 1920x1080(60Hz) |
| | Multi Screen Display | [Single Monitor] Dynamic layout<br>[Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9 |
| | Resolution | [Local Monitor] 8M(2ch@30fps), 1080p(8ch@30fps), 720p(16ch@30fps), D1(32ch@30fps) |

### Performance

| | | |
|---|---|---|
| **Operating System** | Embedded | Linux |
| **Record** | Compression | H.265, H.264, MJPEG |
| | Recording Bandwidth | Max. 80Mbps |
| | 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, User Event |
| | Event Action | e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown |
| **Search & Play** | Playback Bandwidth | Max. 32Mbps |
| | User | Max. 4 Users (Local 1, Remote 3) |
| | Simultaneous playback | Max. 32CH(Local 8CH, Remote 8CH 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/AVI(GUI), JPG/AVI(Network) |
| | Function | Multi channel(Up to 8CH) Play, Date-Time/Title display |

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## 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. 80Mbps |
| **Audio** | Input/Output | 8 CH(network) |
| | 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 Device certificate(Hanwha Techwin Root CA), Signed firmware |
| **Web viewer** | Supported OS | Windows 10, macOS 11 |
| | Supported browser | Google Chrome, Microsoft Edge, Mac Safari |
| **Viewer Software** | | WAVE, SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS |

## Function

| | | |
|---|---|---|
| **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, SSDR, 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: Multi-Profile Support, Multi Channel Playback |
| | 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 |
| **Ethernet** | | PoE+ RJ-45 8EA (LAN, 10/100), RJ-45 2ea (LAN/WAN 1Gbps) |
| **USB** | | 2EA(Front 2 x USB2.0) |
| **Power inlet** | | DC Adaptor |

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## System

| | | |
|---|---|---|
| **Log** | Log List | Max. 100,000 (System Log, Event Log each) |
| **System Control** | | Mouse, Keyboard, Web |
| **Language** | | English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, 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** | 54VDC/1.55A |
| **Power Consumption** | Max. 84W(287 BTU with 1HDD, PoE ON) |
| **PoE Budget** | 65W |

## Mechanical

| | |
|---|---|
| **Color / Material** | Black / Metal |
| **Dimension** | 300.0 x 47.6 x 238.9 mm (11.81 x 1.87 x 9.41 inch) |
| **Weight** | 1.32Kg(2.91lb) |

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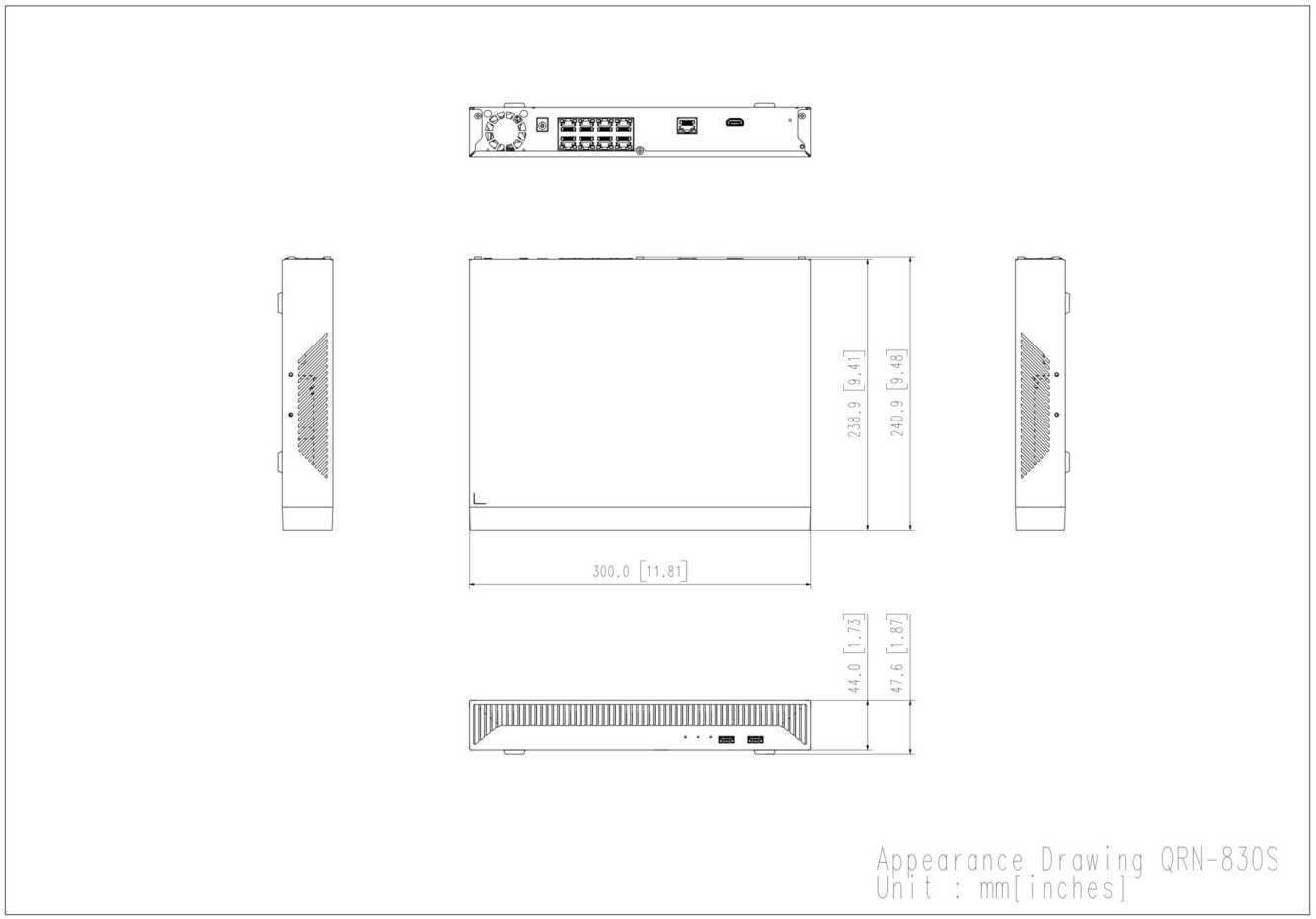
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## CAD

**Unit:** mm [inch]




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