

# XRN-3210RB2

32CH NVR

## Key Features

- Up to 32CH, 32MP Resolution
- Max. 400Mbps network camera recording
- HDMI out
- User friendly UI / UX
- AI search support when working with Wisenet AI camera
- Dynamic Event support

- New event function of cameras is available without software update

- Bookmark management (Up to 100 set)
- H.265, H.264, MJPEG compression support
- SATA 8ea (Up to 80TB, Non-RAID mode)
- RAID 5/6 support

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## Specifications

### Display

| | | |
|---|---|---|
| **Network camera** | Inputs | Max. 32CH |
| | Resolution | 32MP ~ CIF |
| | Protocols | SUNAPI, ONVIF |
| **Decoding** | Local Display | [Dual Display]<br>HDMI 1: 3840 x 2160 (30Hz)<br>HDMI 2: 1920x1080 (60Hz) |
| | Multi Screen Display | [Local Monitor]<br>- Dynamic layout, Virtual channel view<br>- Clone Mode : Up to 64 Division<br>- Expand Mode : HDMI1 up to 32 Div. HDMI2 up to 16 Div.<br>[Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9 |
| | Resolution | 32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(120fps), 1080p(480fps), 720P(960fps), D1(1920fps) |

### Performance

| | | |
|---|---|---|
| **Operating System** | Embedded | Linux |
| **Record** | Compression | H.265, H.264, MJPEG |
| | Recording Bandwidth | Distributed mode : Up to 400 Mbps<br>Normal mode : Up to 150 Mbps<br>[RAID mode]<br>Normal : Up to 400 Mbps<br>Degrade/ Rebuild : Up to 320 Mbps |
| | Resolution | 32MP ~ 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 |

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## Performance

| | | |
|---|---|---|
| **Search & Play** | Playback Bandwidth | RAID Mode : Max. 64Mbps(32CH simultaneously)<br>Non-RAID Mode : Max. 32Mbps |
| | User | Max. 4 Users (Local 1, Remote 3) |
| | Simultaneous playback | Max. 80CH(Local 32CH, Remote 16CH per user) |
| | Fisheye Dewarping | Support (Local 1CH), CMS |
| | Mode | Date & Time(Calendar), Event list, Text Search, Smart Search |
| | Resolution | CIF ~ 32MP (Up to H.264 9MP, H.265 32MP) |
| | Playback Control | Fast/Slow Forward / Backward, Move one step Up / Down |
| **Storage** | Supported HDD | Up to 10TB |
| | HDD Slot | SATA 8ea(Max. 80TB, Non-RAID mode), Hot swap |
| | External | iSCSI storage |
| | RAID | RAID-5/6(Single, 1 Array) |
| **Backup** | File backup | BU/Exe/AVI(GUI), JPG/AVI(Network) |
| | Function | Multi channel(Up to 16CH) 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. 400Mbps |
| **Audio** | Input/Output | 32 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 10.13 |
| | Supported browser | Google Chrome, Microsoft Edge, Mac Safari |
| **Viewer Software** | | WAVE, SSM, Webviewer, Smart 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, SPC-2000 |
| | Preset | 300 Presets |

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## Function

| | | |
|---|---|---|
| **Smart phone** | Support Model | iOS, Android |
| | Protocol Support | RTP, RTSP, HTTP, CGI(SUNAPI) |
| | Control | Live 16CH(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 | HDD, Alarm, Power, Record, Backup, Network, RAID |
| **Storage** | | OK |
| **Reset** | | OK |
| **HDD Keylock** | | OK |
| **HDMI** | | 2EA ( Playback/Setup → HDMI1)<br>HDMI1 : 3840x2160 30Hz<br>HDMI2 : 1920x1080 60Hz |
| **Audio** | | Out 1EA (3.5mm Audio Jack) |
| **Ethernet** | | RJ-45 3EA (LAN/WAN, 1Gbps) |
| **Alarm** | | In 8EA, Out 4EA |
| **USB** | | 4EA(Front 2 x USB2.0 + Rear 2 x USB 3.0) |
| **Power inlet** | | AC 1EA |

## System

| | | |
|---|---|---|
| **Log** | Log List | Max. 100,000 (System Log, Event Log each) |
| **System Control** | | Mouse, Keyboard, Web, Controller (SPC-2000) |
| **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** | 100 ~ 240 VAC ±10%; 50/60Hz, 2.7A(Single SMPS) |
| **Power Consumption** | Max. 160W(with 10TB HDD 8EA) |

## Mechanical

| | |
|---|---|
| **Color / Material** | Black / Metal |
| **Dimension** | 438.0 x 86.0 x 434.9 mm (17.47 x 3.39 x 17.12 inch) |
| **Weight** | 9.1Kg(20.1lb, Except HDD) |

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## Intelligent Analysis

| | | |
|---|---|---|
| **AI Search** | Object Attribute | Compatible with Hanwha AI Cameras |

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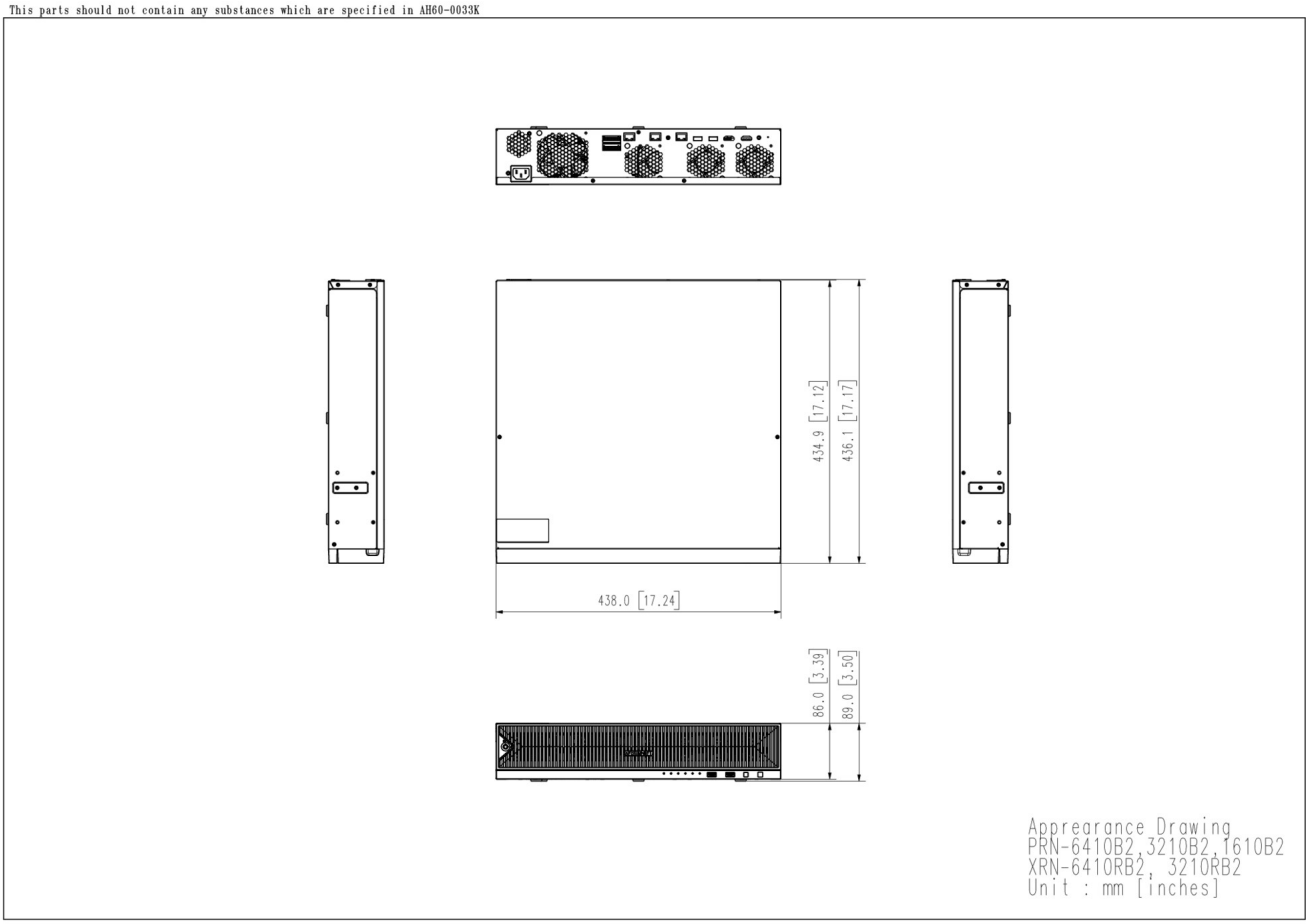
32CH NVR





## CAD

**Unit:** mm [inch]




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