# XRN-3220RB2

32CH NVR with 12th gen. Intel® Processor

## Key Features

- 32CH, 32MP resolution
- SATA 8 HDD Bays (up to 80TB)
- Up to 520Mbps recording / transmission bandwidth
- Easy Channel/Event/Alarm configuration
- Virtual Channel View
- Dynamic layout
- Built-in Support for Web Management (up to 100)
- Compatible with Wisenet Viewer, Wisenet mobile
- NDAA compliant and TPM integrated
- Manual event support

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## Specifications

### Display

| | | |
|---|---|---|
| **Network camera** | Inputs | Max. 32CH |
| | Resolution | 32MP ~ CIF |
| | Protocols | SUNAPI, ONVIF |
| **Decoding** | Local Display | [Dual Display] HDMI 1: 3840 x 2160 (30Hz) HDMI 2: 1920x1080 (60Hz) |
| | Multi Screen Display | [Local Monitor] - Dynamic layout,<br>Virtual channel view - Clone Mode : Up to 64 Division - Expand Mode : HDMI1 up to 32 Div. HDMI2 up to 32 Div. [Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9 |
| | Resolution | 32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(4ch@30fps), 1080p(16ch@30fps), 720P(32ch@30fps), D1(48ch@30fps) |

### Performance

| | | |
|---|---|---|
| **Operating System** | Embedded | Linux |
| **Record** | Compression | H.265, H.264, MJPEG |
| | Recording Bandwidth | Distributed mode : Up to 520 Mbps Normal mode : Up to 300 Mbps [RAID mode] Normal : Up to 520 Mbps Degrade/ Rebuild : Up to 520 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 |
| **Search & Play** | Playback Bandwidth | Up to 200Mbps(32CH simultaneously) |
| | 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 | Time/Event/Text/ARB/Bookmark/Smart search |
| | Resolution | CIF ~ 32MP (Up to H.264 9MP, H.265 32MP) |
| | Playback Control | Fast/Slow Forward / Backward, Move one step Up / Down |

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## Performance

| | | |
|---|---|---|
| **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 | Recorder/SEC/AVI/JPG(Local), AVI/PNG(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, RTCP, 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. 520Mbps |
| **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, TLS, Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware, TPM support |
| **Web viewer** | Supported OS | Windows10 or higher, macOS 13.5.2 or higher |
| | 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) 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-2000/2001 |
| | Preset | 300 Presets |
| **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) |

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## Interface

| | | |
|---|---|---|
| **Front** | Indicator | HDD, Alarm, Power, Record, Backup, Network |
| **Storage** | | Yes |
| **Reset** | | Power button |
| **HDMI** | | 2EA ( Playback/Setup → HDMI1) HDMI1 : 3840x2160 30Hz 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(include wireless), Keyboard(include wireless), Web, Controller (SPC-2000/2001) |
| **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, 1.7A(Single SMPS) |
| **Power Consumption** | Max. 162W (553BTU with 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** | 8.8Kg (19.4lb, Except HDD) |

## Intelligent Analysis

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

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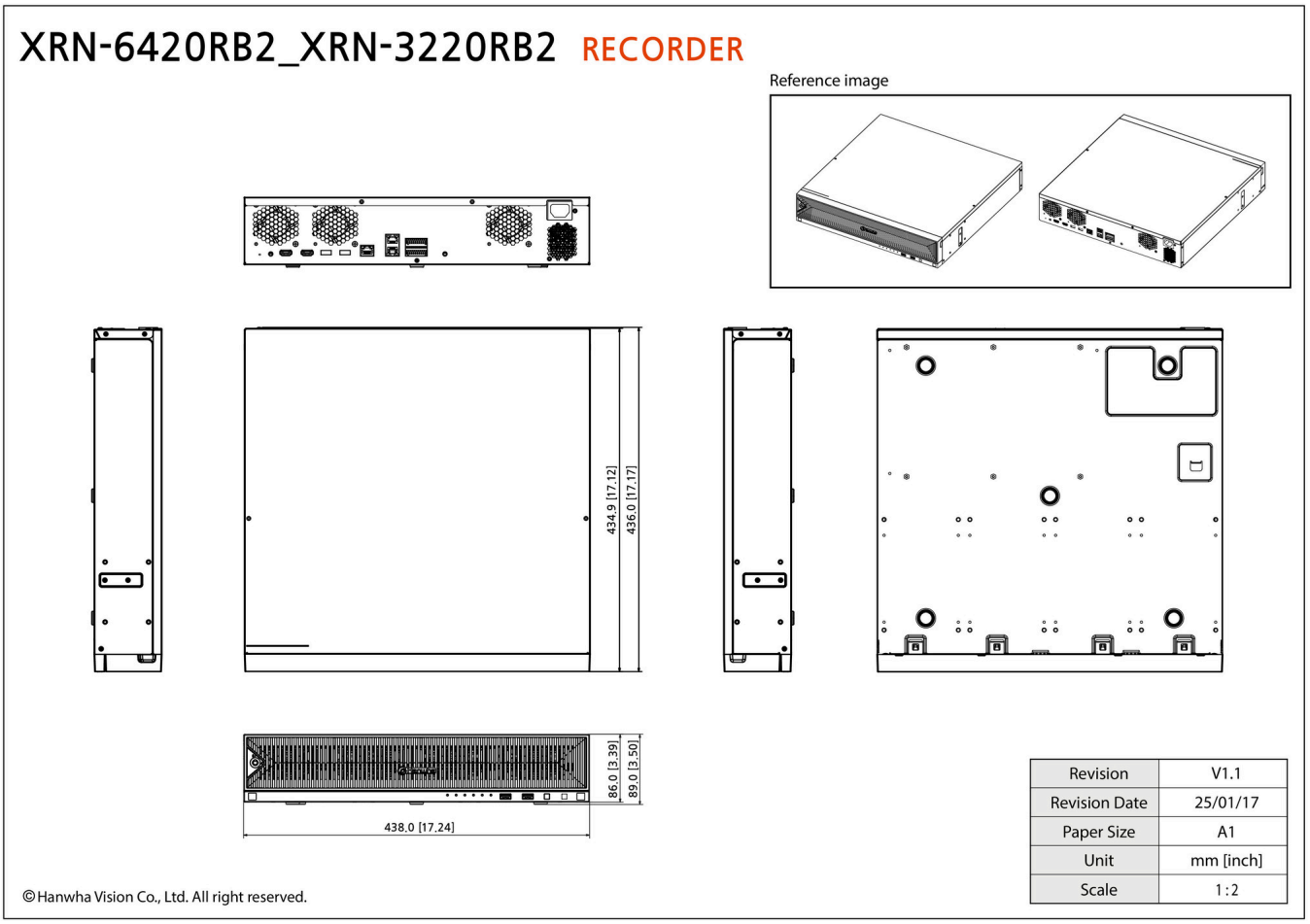
## CAD

**Unit:** mm [inch]

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