



## XRN-6420RB2

64CH NVR with 12th gen. Intel® Processor



### Key Features

- 64CH, 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. 64CH   |
|                  | 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 36 Div. HDMI2 up to 32 Div.<br>[Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9 |
|                  | Resolution            | 32M(15fps, H.265 Only), 12M(30fps, H.265 Only),<br>8.3M(4ch@30fps), 1080p(16ch@30fps),<br>720P(32ch@30fps), D1(64ch@30fps)  |
| Performance      |                       |   |
| Operating System | Embedded              | Linux   |
| Record           | Compression           | H.265, H.264, MJPEG   |
|                  | Recording Bandwidth   | Distributed mode : Up to 520 Mbps<br>Normal mode : Up to 300 Mbps<br>{RAID mode}<br>Normal : Up to 520 Mbps<br>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   |
| Search & Play    | Event Action          | e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown   |
|                  | Playback Bandwidth    | Up to 200Mbps(64CH simultaneously)  |
|                  | User                  | Max. 4 Users (Local 1, Remote 3)  |
|                  | Simultaneous playback | Max. 112CH(Local 64CH, 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)  |
| Storage          | Playback Control      | Fast/Slow Forward / Backward, Move one step Up / Down   |
|                  | Supported HDD         | Up to 10TB  |
|                  | HDD Slot              | SATA 8ea(Max. 80TB, Non-RAID mode), Hot swap  |
|                  | External              | iSCSI storage   |
|                  | RAID                  | RAID-5/6(Array Size : 8 HDDs x 1 Array)   |

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com).

Hanwha Vision is formerly known as Hanwha Techwin.

|        |             |   |
|--------|-------------|---|
| Backup | File backup | Recorder/SEC/AVI/JPG(Local), AVI/PNG(Network)           |
|        | Function    | Multi channel(Up to 16CH) Play, Date-Time/Title display |

|                        |  |   |
|------------------------|--|---|
| <b>Network</b>         |  |   |
| 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   | 64 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<br>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        | SSM, Webviewer, Wisenet Viewer, Wisenet mobile<br>Support CGI(SUNAPI) for integration to 3'rd party VMS  |   |

|                    |                   |  |
|--------------------|-------------------|--|
| <b>Functions</b>   |                   |  |
| 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, SSSR, DIS),<br>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)      |  |

|                  |   |  |
|------------------|---|--|
| <b>Interface</b> |   |  |
| Front            | Indicator   | HDD, Alarm, Power, Record, Backup, Network, RAID |
| Storage          | Yes   |  |
| Reset            | Power button  |  |
| HDD Key Lock     | Yes   |  |
| 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 USB 2.0, Rear 2 x USB 3.0)  |  |
| Power inlet      | AC 1EA  |  |

**System**  
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**XRN-6420RB2**

|                             |   |   |
|-----------------------------|---|---|
| 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, Romanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese |   |
| <b>Environmental</b>        |   |   |
| Operating Temperature       | 0°C to +40°C(32°F to 104°F)   |   |
| Operating Humidity          | 20% ~ 85% RH  |   |
| <b>Electrical</b>           |   |   |
| Power Input                 | 100 ~ 240 VAC ±10%; 50/60 Hz, 1.7A  |   |
| Power Consumption           | Max. 162W (553BTU with HDD 8ea)   |   |
| <b>Mechanical</b>           |   |   |
| Color / Material            | Black / Metal   |   |
| Dimension (WxHxD)           | 438 x 86 x 434.9 mm   |   |
| Weight                      | 8.8Kg (19.4lb, Except HDD)  |   |
| <b>Intelligent Analysis</b> |   |   |
| AI Search                   | Object Attribute  | Compatible with Hanwha AI Cameras         |

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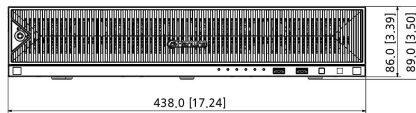
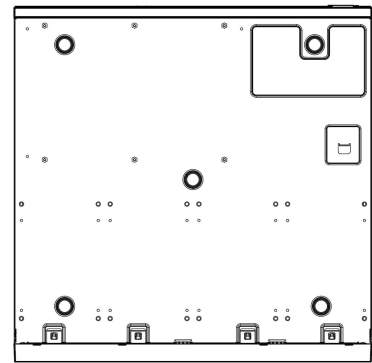
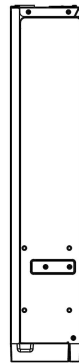
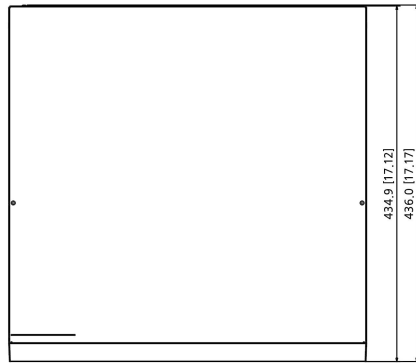
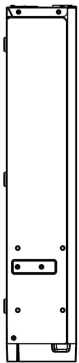
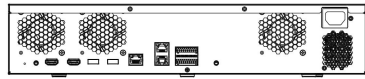
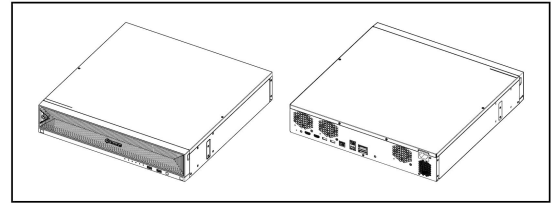


CAD

Unit:mm [inch]

## XRN-6420RB2\_XRN-3220RB2 RECORDER

Reference image



|               |           |
|---------------|-----------|
| Revision      | V1.1      |
| Revision Date | 25/01/17  |
| Paper Size    | A1        |
| Unit          | mm [inch] |
| Scale         | 1:2       |

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