



## XRN-3220B2

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, 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   |
|                  | 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   |
| Storage          | Supported HDD         | Up to 10TB  |
|                  | HDD Slot              | SATA 8ea(Max. 80TB)   |
|                  | External              | iSCSI storage   |

## Performance

|        |             |   |
|--------|-------------|---|
| 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, SDDR, 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)   |

## 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 |

## Interface

|             |  |
|-------------|--|
| 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 $\pm$ 10%; 50/60Hz, 1.5A(Single SMPS) |
| Power Consumption | Max. 143W (488BTU 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           | 7.3Kg (16.1lb, Except HDD)                          |

## Intelligent Analysis

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

# XRN-3220B2

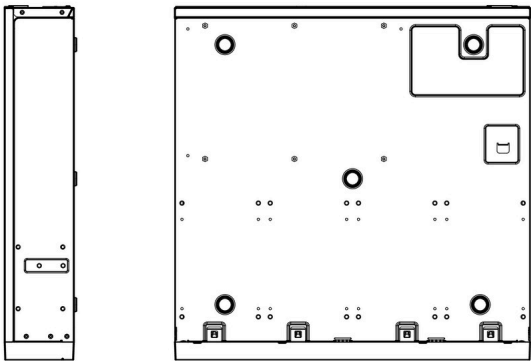
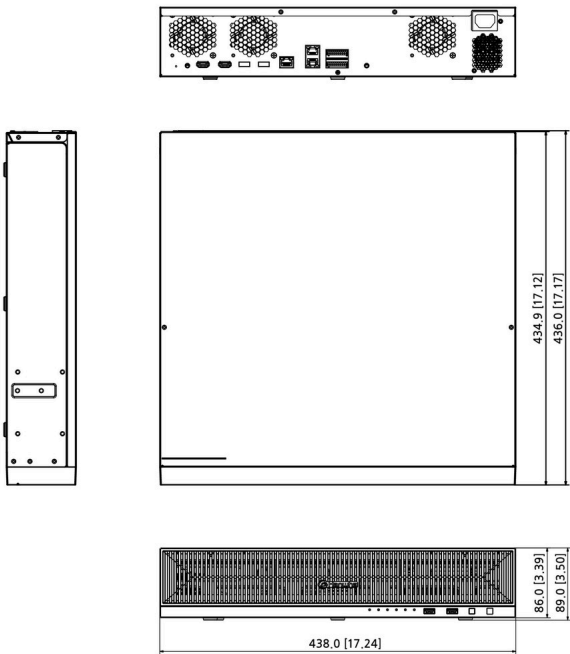
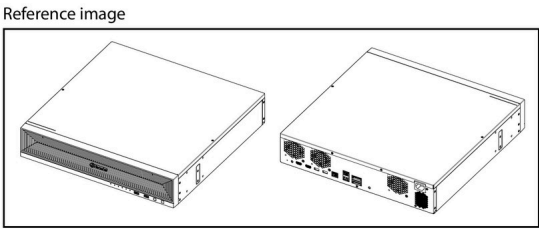
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CAD

Unit: mm [inch]

## XRN-6420B2\_XRN-3220B2 RECORDER



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

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