



# XRN-3210B4

32CH 32MP 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 16ea (Up to 160TB)
- RAID 5/6 support



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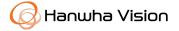
### **Specifications**

| Display          |                       |   |
|------------------|-----------------------|---|
|                  | Inputs                | Max. 32CH   |
| Network camera   | 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),<br>8.3M(120fps), 1080p(480fps), 720P(960fps), D1(1920fps)   |
| Performance      |                       |   |
| Operating System | Embedded              | Linux   |
|                  | 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  |
| Record           | Mode                  | Normal, Dual Stream, Schedule(Continuous/Event), Event<br>(Pre/Post), Bookmark  |
|                  | Event Trigger         | Alarm Input, Video Loss, Camera Event(Sensor, MD, Video<br>Analytics, Defocus, Audio), Dynamic Event, User Event  |
|                  | Event Action          | e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer,<br>Monitor Out, FTP,<br>SUNAPI Command, Shutdown   |
| 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<br>Search   |
|                  | Resolution            | CIF ~ 32MP (Up to H.264 9MP, H.265 32MP)  |
|                  | Playback Control      | Fast/Slow Forward / Backward, Move one step Up / Down   |
|                  | Supported HDD         | Up to 10TB  |
| Storage          | HDD Slot              | SATA 16ea(Max. 160TB, Non-RAID mode), Hot swap  |
|                  | External              | iSCSI storage   |
|                  | RAID                  | RAID-5/6(Array Size : 8 HDDs x 2 Array)   |

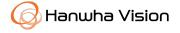


| Backup                 | File backup  | BU/Exe/AVI(GUI), JPG/AVI(Network)   |
|------------------------|--|---|
|                        | Function   | Multi channel(Up to 16CH) Play, Date-Time/Title display   |
|                        |  |   |
| Network                |  |   |
| Protocol               | 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   |   |
|                        | GUI  | 32 CH(network)  |
| Audio                  | Web  | 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<br>Device certificate(Hanwha Techwin Root CA), Signed firmware   |   |
| Webviewer              | Supported OS   | Windows 10, macOS 10.13   |
| Web viewer             | Supported browser  | Google Chrome, Microsoft Edge, Mac Safari   |
| Viewer Software        | SSM, Webviewer, Smart Viewer, Wisenet mobile<br>Support CGI(SUNAPI) for integration to 3'rd party VMS  |   |
| Functions              |  |   |
|                        | Register   | Auto, Manual  |
| Camera Setup           | ltem   | IP address, Add profile edit, Bitrate, Compression, GOP,<br>Quality, Camera MD setup (4, 8 point polygon)<br>Camera video setup (Simple focus, Brightness/Contrast,<br>Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS),<br>Fisheye Dewarping Mode, Hallway View Setup, Camera<br>Webpage |
| PTZ                    | Control  | Via GUI, Webviewer, SPC-2000  |
|                        | Preset   | 300 Presets   |
|                        | Support Model  | iOS, Android  |
| Constructions          | Protocol Support   | RTP, RTSP, HTTP, CGI(SUNAPI)  |
| Smart phone            | 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                | ОК   |   |
| Reset                  | Power button   |   |
| HDD Key Lock           | ОК   |   |
| 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 USI  | B 3.0)  |
|                        |  |   |

#### 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,<br>Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai,<br>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%; 50/60 Hz, 2.7A (Single SMPS)   |   |  |
| Power Consumption     | Max. 265W (904.2 BTU with HDD 16ea)   |   |  |
| Mechanical            |   |   |  |
| Color / Material      | Black / Metal   |   |  |
| Dimension (WxHxD)     | 440.0 x 132.0 x 571.1mm   |   |  |
| Weight                | Approx. 13.4Kg(29.6 lb, HDD not included)   |   |  |
| Intelligent Analysis  |   |   |  |
| Al Search             | Object Attribute  | Compatible for Wisenet AI Camera          |  |



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CAD

Unit:mm [inch]

