



## XRN-3220B4

32CH NVR with 12th gen. Intel® Processor



### Key Features

- 32CH, 32MP resolution
- SATA 16 HDD Bays (up to 160TB)
- 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 32 Division - Expand Mode : HDMI1 up to 32 Div. HDMI2 up to 16 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 Degraded/ 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                                                                                 |

## Performance

|                |               |                                                         |
|----------------|---------------|---------------------------------------------------------|
| <b>Storage</b> | Supported HDD | Up to 10TB                                              |
|                | 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)                 |
| <b>Backup</b>  | File backup   | Recorder/SEC/AVI/JPG(Local), AVI/PNG(Network)           |
|                | Function      | Multi channel(Up to 16CH) Play, Date-Time/Title display |

## Network

|                               |                     |                                                                                                                                                                                                |
|-------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protocol</b>               |                     | 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) |
| <b>DDNS</b>                   |                     | Hanwha DDNS                                                                                                                                                                                    |
| <b>Transmission Bandwidth</b> |                     | Max. 520Mbps                                                                                                                                                                                   |
| <b>Audio</b>                  | Input/Output        | 32 CH(network)                                                                                                                                                                                 |
|                               | Compression         | G.711, G.726, AAC(16/48KHz)                                                                                                                                                                    |
|                               | Audio Communication | 2-Way                                                                                                                                                                                          |
| <b>Max Remote Users</b>       |                     | Search(3), Live Unicast(10), Multicast(20)                                                                                                                                                     |
| <b>Security</b>               |                     | IP address filtering, User access Log, 802.1x, TLS, Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware, TPM support                                                        |
| <b>Web viewer</b>             | Supported OS        | Windows10 or higher, macOS 13.5.2 or higher                                                                                                                                                    |
|                               | Supported browser   | Google Chrome, Microsoft Edge, Mac Safari                                                                                                                                                      |
| <b>Viewer Software</b>        |                     | WAVE, SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS                                                                                     |

## Function

|                           |                   |                                                                                                                                                                                                                                                                                  |
|---------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Camera Setup</b>       | 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 |
| <b>PTZ</b>                | Control           | Via GUI, Webviewer, SPC-2000/2001                                                                                                                                                                                                                                                |
|                           | Preset            | 300 Presets                                                                                                                                                                                                                                                                      |
| <b>Smart phone</b>        | 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)                                                                                                                                                                                                                                                      |
| <b>Redundancy</b>         | Failover          | N+1                                                                                                                                                                                                                                                                              |
|                           | ARB               | Support                                                                                                                                                                                                                                                                          |
| <b>Easy configuration</b> |                   | P2P(QR code)                                                                                                                                                                                                                                                                     |

## Interface

|             |           |                                                                             |
|-------------|-----------|-----------------------------------------------------------------------------|
| Front       | Indicator | HDD, Alarm, Power, Record, Backup, Network, RAID                            |
| Storage     |           | Yes                                                                         |
| Reset       |           | Power button                                                                |
| HDD Keylock |           | Yes                                                                         |
| 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, 2.7A(Single SMPS) |
| Power Consumption | Max. 265W(904.2 BTU with HDD 16ea)             |

## Mechanical

|                  |                                                      |
|------------------|------------------------------------------------------|
| Color / Material | Black / Metal                                        |
| Dimension        | 440.0 x 132.0 x 571.1 mm (17.32 x 5.20 x 22.48 inch) |
| Weight           | Approx. 14Kg(30.9lb, HDD not included)               |

## Intelligent Analysis

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

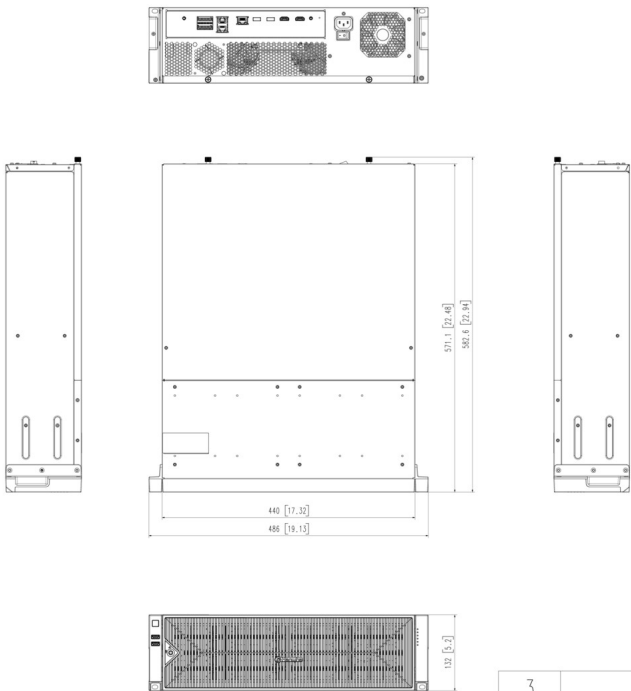
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## CAD

Unit: mm [inch]



|                         |            |                                                                                                     |
|-------------------------|------------|-----------------------------------------------------------------------------------------------------|
| 3                       | MODEL 2    |                                                                                                     |
| 2                       | XRN-3220B4 | '23.08.22                                                                                           |
| 1                       | XRN-6420B4 | '23.08.22                                                                                           |
| No.                     | MODEL NAME | DATE                                                                                                |
| Unit:mm[inch] SCALE:1/2 |            |  Hanwha Vision |

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