



# XRN-1620B2

16CH NVR



## Key Features

- Up to 16CH 32MP supported
- Max. 140Mbps 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
- H.265, H.264, MJPEG codec supported
- Bookmark management (Up to 100 set)
- SATA 8ea (Up to 80TB)

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## Specifications

|                      |                       |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display              |                       |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Network camera       | Inputs                | Max. 16CH                                                                                                                                                                                                                                                                                                                                                                                                       |
|                      | Resolution            | 32MP ~ CIF                                                                                                                                                                                                                                                                                                                                                                                                      |
|                      | Protocols             | SUNAPI, ONVIF                                                                                                                                                                                                                                                                                                                                                                                                   |
| Decoding             | Local Display         | FHD : HDMI & VGA Dual monitor<br>UHD : HDMI Single monitor                                                                                                                                                                                                                                                                                                                                                      |
|                      | Multi Screen Display  | [Local Monitor]<br>- Dynamic layout, Virtual channel view<br>- Clone mode : Up to 16 Division<br>- Expand mode : Up to 9 Division<br>[Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9                                                                                                                                                                                                                                            |
|                      | Resolution            | [Local Monitor]<br>FHD Clone mode : 32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(50fps, 1080p(240fps), D1(480fps)<br>UHD Single mode : 32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(50fps, 1080p(240fps), D1(270fps)<br>FHD Expand mode: 32M(12fps, H.265 Only), 12M(25fps, H.265 Only), 8.3M(30fps, 1080p(90fps), D1(200fps)<br>Clone/Single mode : Up to 25fps when displaying more than 10CH |
| Intelligent Analysis |                       |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AI Search            | Object Attribute      | Compatible for Wisenet AI Camera                                                                                                                                                                                                                                                                                                                                                                                |
| Performance          |                       |                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating System     | Embedded              | Linux                                                                                                                                                                                                                                                                                                                                                                                                           |
| Record               | Compression           | H.265, H.264, MJPEG                                                                                                                                                                                                                                                                                                                                                                                             |
|                      | Recording Bandwidth   | Max. 140Mbps                                                                                                                                                                                                                                                                                                                                                                                                    |
|                      | 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    | Max. 32Mbps                                                                                                                                                                                                                                                                                                                                                                                                     |
|                      | User                  | Max. 4 Users (Local 1, Remote 3)                                                                                                                                                                                                                                                                                                                                                                                |
|                      | Simultaneous playback | Max. 64CH(Local 16CH, Remote 16CH per user)                                                                                                                                                                                                                                                                                                                                                                     |
|                      | Fisheye Dewarping     | CMS                                                                                                                                                                                                                                                                                                                                                                                                             |
|                      | Mode                  | Date & Time(Calendar), Event list, Text Search, Smart Search                                                                                                                                                                                                                                                                                                                                                    |
|                      | Resolution            | CIF ~ 32MP (Up to H.264 8.3MP, 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)                                     |
| 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. 140Mbps                                                                                                                                                                             |                                           |
| Audio                  | Input/Output                                                                                                                                                                             | 16 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, Encryption<br>Device certificate(Hanwha Techwin Root CA), Signed firmware                                                                 |                                           |
| Web viewer             | Supported OS                                                                                                                                                                             | Windows 10, macOS 10.13                   |
|                        | Supported browser                                                                                                                                                                        | Google Chrome, Microsoft Edge, Mac Safari |
| Viewer Software        | WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile<br>Support CGI(SUNAPI) for integration to 3'd party VMS                                                                               |                                           |

|                    |                   |                                                                                                                                                                                                                                                                                     |
|--------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Functions          |                   |                                                                                                                                                                                                                                                                                     |
| 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, SSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage |
|                    |                   |                                                                                                                                                                                                                                                                                     |
| PTZ                | Control           | Via GUI, Webviewer, SPC-2000                                                                                                                                                                                                                                                        |
|                    | 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     | OK                                       |                                            |
| HDMI        | 1EA 3840x2160 30Hz                       |                                            |
| VGA         | 1EA 1920x1080 60Hz                       |                                            |
| Audio       | Out 1EA (3.5mm Audio Jack)               |                                            |
| Ethernet    | RJ-45 2EA (LAN/WAN, 1Gbps)               |                                            |
| Alarm       | In 4EA, Out 2EA                          |                                            |
| USB         | 3EA(Front 2 x USB 2.0, Rear 1 x USB 3.0) |                                            |
| Power inlet | AC 1EA                                   |                                            |

## System

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.

|                       |                                                                                                                                                                                                                       |                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 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, 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%; 50/60 Hz                                                                                                                                                                                         |                                           |
| Power Consumption     | 130W                                                                                                                                                                                                                  |                                           |
| Mechanical            |                                                                                                                                                                                                                       |                                           |
| Color / Material      | Black / Metal                                                                                                                                                                                                         |                                           |
| Dimension (WxHxD)     | 440 x 89.8 x 428.4 mm (17.32 x 3.54 x16.87 inch)                                                                                                                                                                      |                                           |
| Weight                | 5.71Kg (12.59lb)                                                                                                                                                                                                      |                                           |