

# XRN-1620SB1

16CH NVR



FC |  | CE | EAC

## 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
- Plug & play by 16 PoE ports
- Bookmark management (Up to 100 set)
- SATA 4ea (Up to 24TB)

| 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] 1/ 2V/ 2H/ 3V/ 4/ 6/ 8/ 9/ 13/ 16/ Sequence<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 : MAX 15fps when displaying more than 10CH<br>Expand mode : Up to 9 divisions, Max 15fps when displaying more than 8CH |
| 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  |
|                  | Event Action   | e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out   |
| 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 6TB  |
|                  | HDD Slot   | SATA 4ea(Max. 24TB)  |
| Backup           | File backup  | BU/Exe(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, Firefox   |
| Viewer Software        |                     | WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile<br>Support SDK/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, SSSDR, 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)   |
| <b>Interface</b>       |                     |  |
| Front                  | Indicator           | HDD, Alarm, Power, Record, Backup, Network   |
| Storage                |                     | OK   |
| HDMI                   |                     | 1EA 3840x2160 30Hz   |
| VGA                    |                     | 1EA 1920x1080 60Hz   |
| Audio                  |                     | Out 1EA  |
| Ethernet               |                     | PoE RJ-45 16EA (LAN, 10/100), 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   |
| <b>System</b>          |                     |  |
| Log                    | Log List            | Max. 100,000 (System Log, Event Log each)  |
| System Control         |                     | Mouse, Web, Controller (SPC-2000)  |

|                 |  |
|-----------------|--|
| <b>Language</b> | English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese |
|-----------------|--|

|                      |  |
|----------------------|--|
| <b>Environmental</b> |  |
|----------------------|--|

|                              |                              |
|------------------------------|------------------------------|
| <b>Operating Temperature</b> | 0°C to +40°C (32°F to 104°F) |
| <b>Operating Humidity</b>    | 20% ~ 85% RH                 |

|                   |  |
|-------------------|--|
| <b>Electrical</b> |  |
|-------------------|--|

|                          |                               |
|--------------------------|-------------------------------|
| <b>Power Input</b>       | 100 ~ 240 VAC ± 10%; 50/60 Hz |
| <b>Power Consumption</b> | Max. 310W                     |
| <b>PoE Budget</b>        | 200W                          |

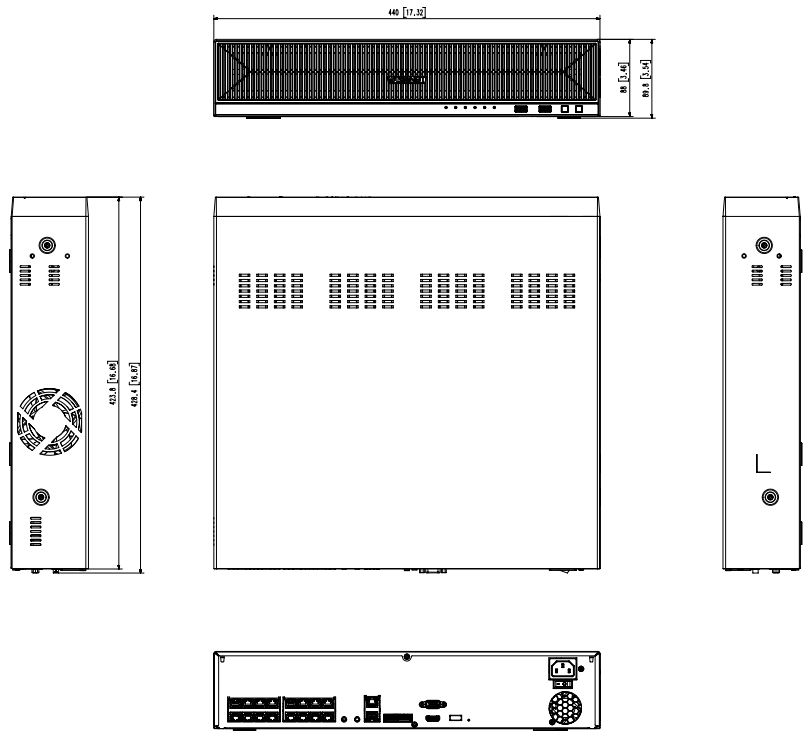
|                   |  |
|-------------------|--|
| <b>Mechanical</b> |  |
|-------------------|--|

|                          |                       |
|--------------------------|-----------------------|
| <b>Color / Material</b>  | Black                 |
| <b>Dimension (WxHxD)</b> | 440 x 89.8 x 428.4 mm |
| <b>Weight</b>            | 5.76Kg                |

|                             |  |  |
|-----------------------------|--|--|
| <b>Intelligent Analysis</b> |  |  |
|-----------------------------|--|--|

|                  |                         |                                  |
|------------------|-------------------------|----------------------------------|
| <b>AI Search</b> | <b>Object Attribute</b> | Compatible for Wisenet AI Camera |
|------------------|-------------------------|----------------------------------|

- The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.



|                |             |           |
|----------------|-------------|-----------|
| 3              |             |           |
| 2              |             |           |
| 1              | XRN-1620SB1 | '20.12.01 |
| No.            | MODEL NAME  | DATE      |
| Unit:mm[inch]  |             | SCALE:1/2 |
| Hanwha Techwin |             |           |