

# PRN-6410B4

64CH AI NVR



## Key Features

- Up to 8K (32MP) Resolution
- AI search (BestShot, Attribute)
- Object detection and classification (Person, Face, Vehicle)
- SATA 16ea (Up to 160TB)
- Easy Channel/Event/Alarm configuration
- Video preview support
- Dynamic Event support
- Bookmark management (Up to 100 set)
- Simple connection with mobile phone through QR code and QR

FC |  | CE | EAC

| Display                |                       |                                                                                                                                                                                                 |
|------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network camera         | Inputs                | Max. 64CH                                                                                                                                                                                       |
|                        | Resolution            | 32MP ~ CIF                                                                                                                                                                                      |
|                        | Protocols             | Wisenet, ONVIF                                                                                                                                                                                  |
| Decoding               | Local Display         | [Dual Display]<br>HDMI 1: 3840 x 2160 (30Hz)<br>HDMI 2: 1920x1080 (60Hz)                                                                                                                        |
|                        | Multi Screen Display  | [Local Monitor] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9/ 13/ 16/ 25/ 36/ 64/ Sequence<br>[Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9                                                                                      |
|                        | Resolution            | 32M(15fps, H.265 Only), 12M(30fps, H.265 Only), 8.3M(120fps), 1080p(480fps), 720P(960fps), D1(1920fps)                                                                                          |
| Performance            |                       |                                                                                                                                                                                                 |
| Operating System       | Embedded              | Linux                                                                                                                                                                                           |
| Record                 | Compression           | H.265, H.264, MJPEG, WiseStream(H.265, H.264)                                                                                                                                                   |
|                        | Recording Bandwidth   | Max. 400Mbps                                                                                                                                                                                    |
|                        | 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. 64Mbps(64CH simultaneously)                                                                                                                                                                |
|                        | User                  | Max. 4 Users (Local 1, Remote 3)                                                                                                                                                                |
|                        | Simultaneous playback | Max. 112CH(Local 64CH, Remote 16CH per user)                                                                                                                                                    |
|                        | Fisheye Dewarping     | CMS                                                                                                                                                                                             |
|                        | Mode                  | Date & Time(Calendar), Event list, Text Search, 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 16ea (Max. 160TB, Non-RAID mode), Hot swap                                                                                                                                                 |
|                        | External              | iSCSI storage                                                                                                                                                                                   |
|                        | RAID                  | RAID-5/6(Array Size : 8 HDD x 2 Array)                                                                                                                                                          |
| 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), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client) |
| DDNS                   |                       | Hanwha DDNS                                                                                                                                                                                     |
| Transmission Bandwidth |                       | Max. 400Mbps                                                                                                                                                                                    |
| Audio                  | Input/Output          | 64 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  |                     | SSM, Webviewer, Smart Viewer, Wisenet mobile<br>Support SDK/CGI(SUNAPI) for integration to 3'rd 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

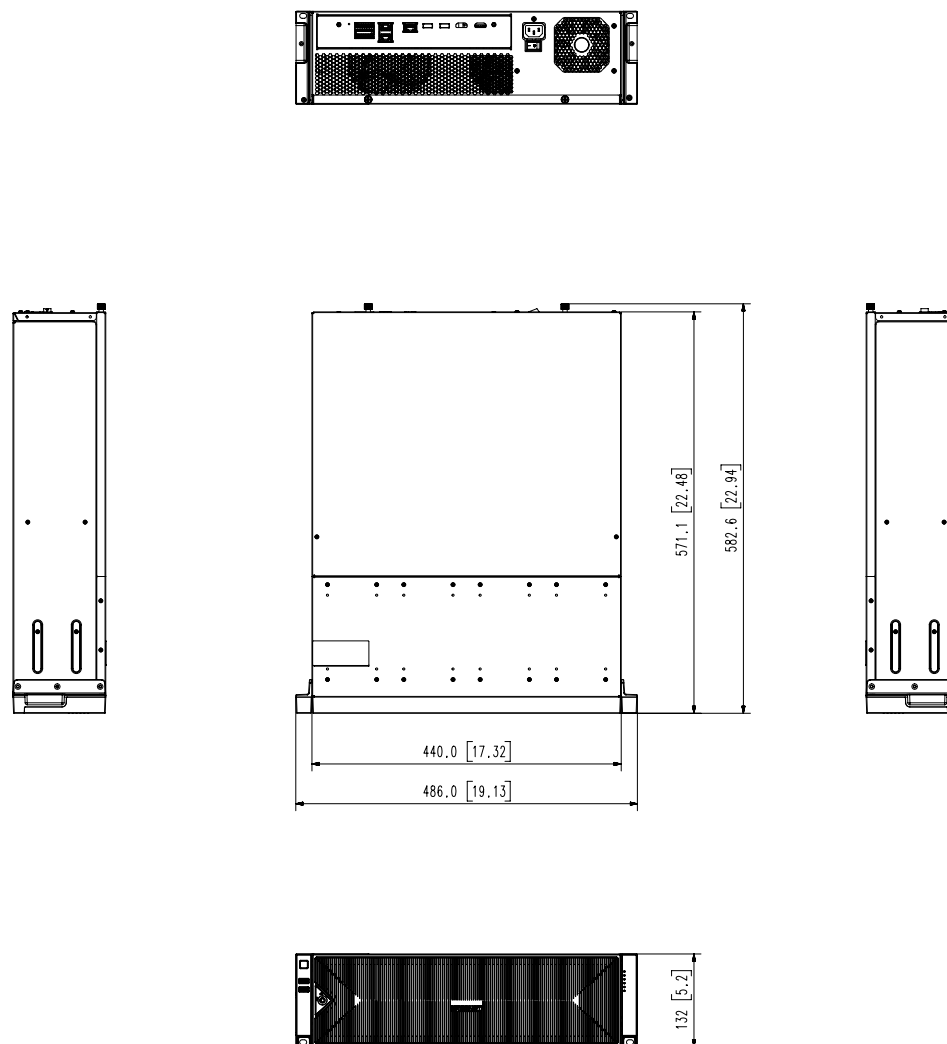
|              |           |                                            |
|--------------|-----------|--------------------------------------------|
| Front        | Indicator | HDD, Alarm, Power, Record, Backup, Network |
| Storage      |           | OK                                         |
| Reset        |           | Power button                               |
| HDD Key Lock |           | OK                                         |
| HDMI         |           | 2EA                                        |
| Audio        |           | Out 1EA                                    |
| Ethernet     |           | RJ-45 3EA (LAN/WAN, 1Gbps)                 |
| Alarm        |           | In 8EA, Out 4EA                            |
| USB          |           | 4EA(Front 2 x USB 2.0, 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, Web, Controller (SPC-2000)         |

|                       |                  |                                                                                                                                                                                                                             |
|-----------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Language              |                  | English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnam |
| 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     |                  | Max. 285W (972.5 BTU with HDD 16ea)                                                                                                                                                                                         |
| Mechanical            |                  |                                                                                                                                                                                                                             |
| Color / Material      |                  | Black / Metal                                                                                                                                                                                                               |
| Dimension (WxHxD)     |                  | 440.0 x 132.0 x 571.1mm                                                                                                                                                                                                     |
| Weight                |                  | Approx. 13.6Kg (30 lb, HDD not included)                                                                                                                                                                                    |
| Intelligent Analysis  |                  |                                                                                                                                                                                                                             |
| AI Search             | Object Attribute | Person, Face (with Wisenet AI camera), Vehicle, Licence plate                                                                                                                                                               |
|                       | Face Recognition | Support 100,000 Library (with Wisenet AI Camera)                                                                                                                                                                            |
|                       | LPR              | English, Number (Wisenet AI, P/X 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.



Appearance Drawing  
 PRN-6410B4, PRN-3210B4, XRN-6410B4, XRN-3210B4  
 Unit : mm[inches]