Hanwha Vision

# HRX-434

4CH Pentabrid DVR

FC | c UL us LISTED | CE | EHC | NDAA COMPLIANT

## Key Features

- 5-in-1 4CH Pentabrid DVR
- AHD/HDTVI/HDCVI/CVBS/IP inputs
- Total 6CH (Analog Max. 4CH and Network Max. 6CH supported), up to 8MP
- H.265, H.264, MJPEG codec
- 8/8fps@8MP, 12/12fps@5MP recording
- Coaxial control
- Up to 1 SATA HDDs(6TB/HDD)
- HDMI/VGA Dual monitor
- P2P service (QR code connect)

# HRX-434

4CH Pentabrid DVR

## Specifications

### Display

| Analog camera | Inputs | 4CH(1Vp-p 75ohm, BNC) |
|---|---|---|
| | Signal Type | AHD(8MP, 5MP, 4MP, 1080p, 720p)<br>HDTVI(8MP, 5MP, 4MP, 1080p, 720p)<br>HDCVI(5MP, 4MP, 1080p, 720p)<br>CVBS(NTSC/PAL) |
| Network camera | Inputs | Max. 6CH |
| | Resolution | 8MP ~ CIF |
| | Protocols | SUNAPI(Wisenet), ONVIF |
| Live | Local Display | 1x HDMI, 1x VGA (simultaneous output)<br>HDMI: 3840 x 2160, 2560x1440, 1920x1080, 1280x1024, 1280x720<br>VGA: 1920x1080, 1280x1024, 1280x720 |
| | Resolution | [Analog Camera(NTSC/PAL)]<br>- 8MP(15/12fps), 5MP(20/12fps), 4MP(30/25fps), 2MP(30/25fps),1MP(30/25fps), 960H(or 720H)(30/25fps)<br>* per CH<br>[Network Camera]<br>- Typ. 2MP(120fps) |

### Performance

| Record | Compression | H.265, H.264, MJPEG |
|---|---|---|
| | Record Rate(Analog) | Analog Camera)<br>(Main Stream) 8MP 8/8fps, 5M 12/12fps, 4M 15/12fps, 2M 30/25fps, 720p 30/25fps, 960H/640H 30/25fps (NTSC/PAL per CH)<br>(Sub Stream) 720p or higher : 640x368 full fps/CH, SD signal : upto CIF full fps/CH<br>* The maximum recording frame rate depends on the frame rate of the input camera. |
| | Recording Bandwidth | Max. 30Mbps |
| | Resolution | 8MP ~ CIF |
| | Mode | Manual, Schedule (Continuous/Event), Event(Pre/Post), Dual Track |
| | Event Trigger | Alarm Input<br>Analog Camera : Video Loss, Motion Detection,Tampering<br>Network Camera : Camera Event (Sensor, MD, Video analytics), VA event (Tampering, Enter / Exit, Passing, Virtual- line, (Dis)Appear, Face Detection, Audio detection), Defocus camera event, Dynamic camera event |
| | Event Action | E-mail, PTZ preset, Alarm out, Buzzer, Monitor out |
| Search & Play | Playback Bandwidth | Max. 32Mbps (6CH simultaneously) |
| | User | Max. 4 Users (Local 1, Remote 3) |
| | Simultaneous playback | 6CH(Local Monitor), 4CH(CMS, Wisenet Mobile) 1CH(Web) |
| | Fisheye Dewarping | WEB / CMS |

| Storage | Supported HDD | Up to 6TB |
|---|---|---|
| | HDD Slot | SATA 1ea(Max 6TB) |
| Backup | File backup | BU, EXE(Include Player), AVI(Webviewer only) |
| | Function | Max. 6 CH play, Date-time/title display |

## Functions

| PTZ | Control | Via GUI, Webviewer, SSM, SmartViewer, Wisenet Mobile Viewer, System Controller |
|---|---|---|
| Smart phone | Support Model | iOS, Android |
| | Protocol Support | RTP, RTSP, HTTP, CGI(SUNAPI) |
| | Control | Live(4ch) : Multi-Profile Support<br>Playback(4Ch Multi Playback, Max 2MP)<br>Event push |
| | Max. Remote Users | Search(3), Live Unicast(10) |
| Redundancy | ARB | Support |
| Easy configuration | Setup Wizard (Language Date/Time, Password, Network, Auto Camera Configuration), P2P (QR code) | |
| Coaxial Control | CVBS(Pelco-C)/AHD/CVI/TVI | |

## Interface

| HDMI | 1EA |
|---|---|
| VGA | 1EA |
| BNC | 4CH In / 1CH Out(Spot Output) |
| Audio | Out(1EA, RCA, Line) |
| Ethernet | RJ-45(10/100 BASE-T) |
| Alarm | In 4EA, Out 1EA<br>- Relay Out1(NO/NC/COM) |
| USB | 2EA(Front/Rear USB2.0) |
| Serial(Protocols) | RS-485 (Samsung-T/Pelco-D/Pelco-p) * for PTZ |
| Power inlet | 1EA DC Input Jack |

## System

| System Control | Mouse, Webviewer, System Controller(SPC-7000, SPC-6000, 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 |

## Environmental

| Operating Temperature | 0°C to +40°C(+32°F to +104°F) |
|---|---|
| Operating Humidity | 20% ~ 85% RH |
| Certification | UL, CE, FCC, KC |

## Electrical

| Power Input | DC12V |
|---|---|
| Power Consumption | Max. 22W (6T HDD 1ea) |

## Mechanical

| Color / Material | Black / Metal |
|---|---|
| Dimension (WxHxD) | 300 x 47 x 208.7mm (11.85" x 1.89" x 8.22") |

| Weight | Approx. 1.5Kg (3.30 lb, 4TB HDD 1ea) |
|---|---|

**Network**

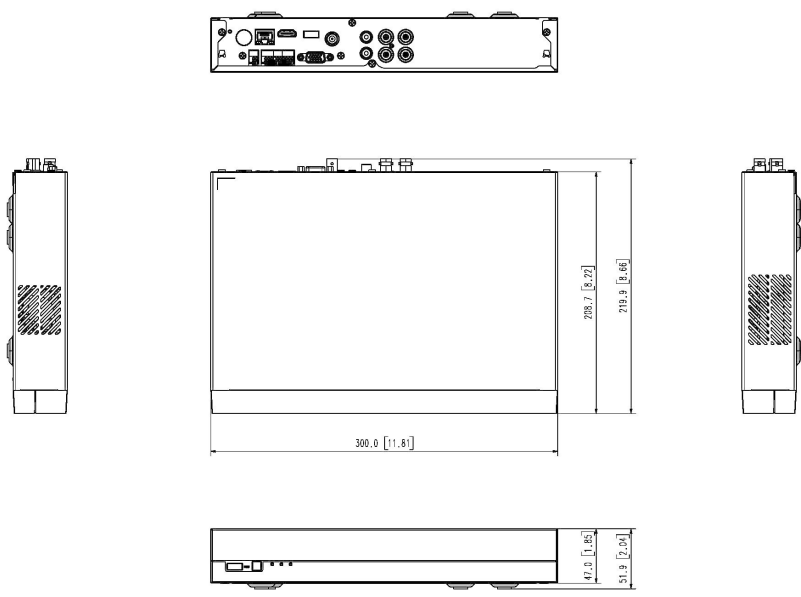| Protocol | TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client) | |
|---|---|---|
| DDNS | Wisenet DDNS | |
| Transmission speed | Analog Camera)<br>(Main Stream) 8MP 8/8fps, 5M 12/12fps, 4M 15/12fps, 2M 30/25fps, 720p 30/25fps, 960H/640H 30/25fps (NTSC/PAL per CH)<br>(Sub Stream) 720p or higher : 640x368 full fps/CH, SD signal : upto CIF full fps/CH<br>* The maximum recording frame rate depends on the frame rate of the input camera. | |
| Transmission Bandwidth | Max. 32Mbps | |
| Audio | Input/Output | 1 Line in / 1 Line out |
| | Compression | G.711 (N/W Cam G.711, 726) |
| | Audio Communication | 2-Way |
| Max Remote Users | Search(3), Live Unicast(10), Multicast(20) | |
| Security | IP address filtering, User access log, 802.1x Authentication, Encryption (ID/PW, Recording, Transmission, Backup)<br>Device Certificate(Hanwha Techwin Root CA) | |
| Viewer Software | SSM, Webviewer, Smart Viewer, Wisenet mobile<br>Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS | |

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## CAD

This parts should not contain any substances which are specified in AH60-0033K



208.7 [8.22]
219.9 [8.66]
300.0 [11.81]
47.0 [1.85]
51.9 [2.04]

Appearance drawing HRX-434
Unit : mm[inches]