



# HRX-435

4CH Pentabrid DVR



## 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 2 SATA HDDs(6TB/HDD)
- HDMI/VGA Dual monitor
- P2P service (QR code connect)

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## Specifications

| Display        |                       |                                                                                                                                                                                                                                                                                        |
|----------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analog camera  | Inputs                | 4CH(1Vp-p 75ohm, BNC)                                                                                                                                                                                                                                                                  |
|                | Signal Type           | AHD(8MP, 5MP, 4MP, 1080p, 720p) HDTVI(8MP, 5MP, 4MP, 1080p, 720p) HDCVI(8MP, 5MP, 4MP, 1080p, 720p) CVBS(NTSC/PAL)                                                                                                                                                                     |
| Network camera | Inputs                | Additional 2CH (Up to 6CH)                                                                                                                                                                                                                                                             |
|                | Resolution            | 8MP ~ CIF                                                                                                                                                                                                                                                                              |
|                | Protocols             | SUNAPI(Wisenet), ONVIF                                                                                                                                                                                                                                                                 |
| Live           | Local Display         | 1x HDMI,<br>1x VGA (simultaneous output) HDMI: 3840 x 2160,2560x1440,1920x1080,1280x1024, 1280x720 VGA: 1920x1080,1280x1024,1280x720                                                                                                                                                   |
|                | Resolution            | [Analog Camera(NTSC/PAL)] - 8MP(15/12fps), 5MP(20/12fps), 4MP(30/25fps), 2MP(30/25fps),1MP(30/25fps), 960H(or 720H)(30/25fps) * per CH [Network Camera] - Typ. 2MP(120fps)                                                                                                             |
| Performance    |                       |                                                                                                                                                                                                                                                                                        |
| Record         | Compression           | H.265, H.264, MJPEG                                                                                                                                                                                                                                                                    |
|                | Record Rate(Analog)   | (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) (Sub Stream) 720p or higher : 640x368 full fps/CH, SD signal : upto CIF full fps/CH,* 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 Analog Camera : Video Loss,Motion Detection,Tampering, 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),6Ch (CMS), 4Ch (Wisenet Mobile), 1Ch(Web)                                                                                                                                                                                                                           |
|                | Fisheye Dewarping     | WEB/CMS                                                                                                                                                                                                                                                                                |
| Storage        | Supported HDD         | Up to 6TB                                                                                                                                                                                                                                                                              |
|                | HDD Slot              | SATA 2ea(Max 12TB)                                                                                                                                                                                                                                                                     |

## Performance

|        |             |                                              |
|--------|-------------|----------------------------------------------|
| Backup | File backup | BU, EXE(Include Player), AVI(Webviewer only) |
|        | Function    | Max. 6 CH play, Date-time/title display      |

## Function

|                    |                   |                                                                                                |
|--------------------|-------------------|------------------------------------------------------------------------------------------------|
| 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 Playback(4Ch Multi Playback, Max 2MP) 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              | 1 EA                                                         |
| VGA               | 1 EA                                                         |
| BNC               | 4CH In / 1CH Out(Spot Output)                                |
| Audio             | Out(1EA, RCA, Line)                                          |
| Ethernet          | RJ-45(10/100 BASE-T)                                         |
| Alarm             | In 4EA, Out 2EA - Relay Out1(NO/NC/COM) - Relay Out2(NO/COM) |
| USB               | 2EA(Front USB2.0)                                            |
| Serial(Protocols) | RS-485/422 (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, Romanian, 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. 40W (6TB HDD 2ea) |

## Mechanical

|                  |               |
|------------------|---------------|
| Color / Material | Black / Metal |
|------------------|---------------|

## Mechanical

|                  |                                                    |
|------------------|----------------------------------------------------|
| <b>Dimension</b> | 370.0 x 44.0 x 320.0 mm (14.57 x 1.73 x 12.6 inch) |
| <b>Weight</b>    | Approx. 2.3Kg (5.07 lb, 4TB HDD 1ea)               |

## Network

|                               |                                                                                                                                                                                                                                                                                                       |                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>Protocol</b>               | 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)                                                                                                                   |                               |
| <b>DDNS</b>                   | Hanwha DDNS                                                                                                                                                                                                                                                                                           |                               |
| <b>Transmission speed</b>     | Analog Camera) (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) (Sub Stream) 720p or higher : 640x368 full fps/CH, SD signal : upto CIF full fps/CH,* The maximum recording frame rate depends on the frame rate of the input camera. |                               |
| <b>Transmission Bandwidth</b> | Max. 32Mbps                                                                                                                                                                                                                                                                                           |                               |
| <b>Audio</b>                  | <b>Input/Output</b>                                                                                                                                                                                                                                                                                   | 4 Lline in / 1 Line out       |
|                               | <b>Compression</b>                                                                                                                                                                                                                                                                                    | G.711 (N/W Camera G.711, 726) |
|                               | <b>Audio Communication</b>                                                                                                                                                                                                                                                                            | 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 Authentication, Encryption (ID/PW, Recording, Transmission, Backup) Device Certificate(Hanwha Vision Root CA)                                                                                                                                           |                               |
| <b>Viewer Software</b>        | SSM, Webviewer, Smart Viewer, Wisenet mobile                                                                                                                                                                                                                                                          |                               |

# HRX-435

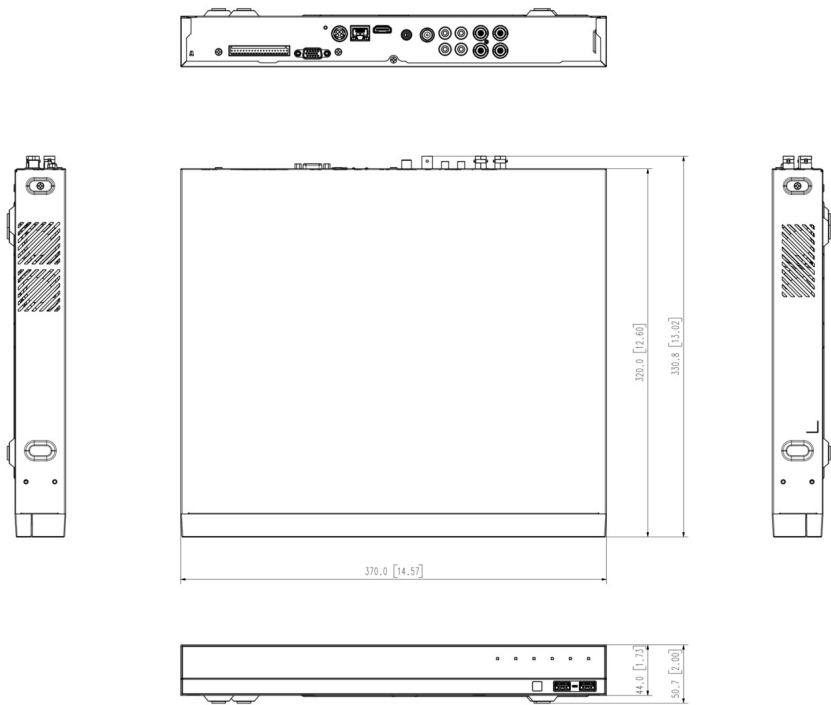
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## CAD

Unit: mm [inch]

This parts should not contain any substances which are specified in AB60-0033K



Appearance drawing HRX-435  
Unit : mm[inches]