

HRX-421

4 Channel Pentabrid DVR



Key Features

- 5-in-1 4CH Pentabrid DVR
- AHD/HDTVI/HDCVI/CVBS/IP inputs
- Maximum 4 channel Analog + 2 channel Network (Maximum 6CH), up to 8MP resolution
- Migrate analog channels to IP channels
- H.265, H.264, MJPEG
- 8fps@8MP, 12fps@5MP, 30fps@2MP recording
- Coaxial control
- Smart search(only Network camera)
- Up to 2 SATA HDDs(6TB/HDD)
- HDMI/VGA monitor
- P2P service(QR code connect)

Display

Analog Camera	Inputs	4CH(1Vp-p 75ohm, BNC)
	Signal Type	AHD(8MP, 5MP, 4MP, 1080p, 720p) HDTVI(8MP, 5MP, 4MP, 1080p, 720p) HDCVI(5MP, 4MP, 1080p, 720p) CVBS
Network Camera	Inputs	Maximum 6CH (2 channels available when all 4 analog channels are in use)
	Resolution	8MP ~ CIF
	Protocols	SUNAPI(Wisenet), ONVIF
Live	Local Display	HDMI: 3840 x 2160, 1920x1080, 1280x720 VGA: 1920x1080, 1280x720
	Resolution	[Analog Camera] - 8MP(15fps), 5MP(20fps), 4MP(30fps), 2MP(30fps), 1MP(30fps), 960H/720H(30fps) *per CH [Network Camera] - Typical 2MP(120fps)

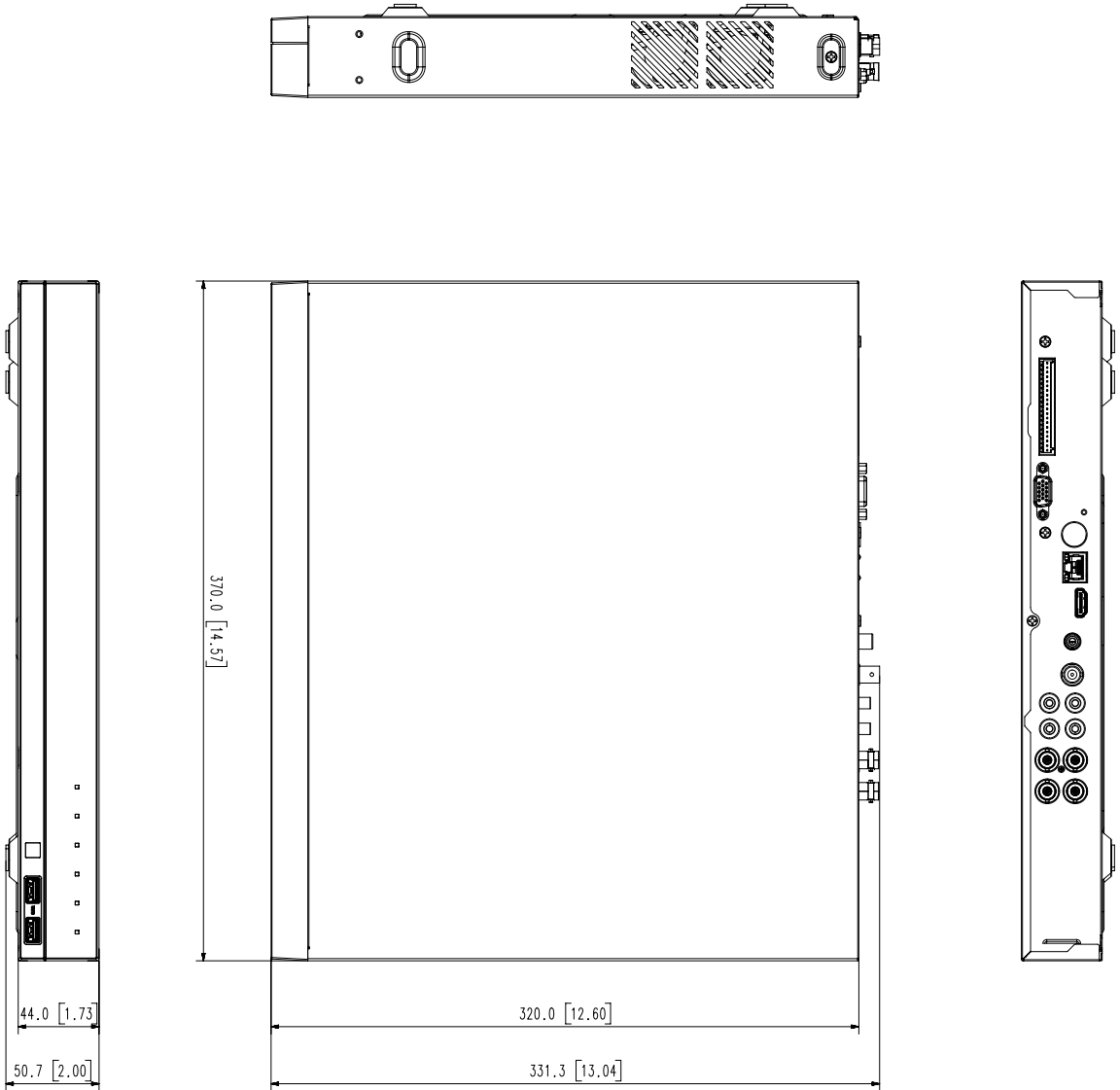
Performance

Record	Compression	H.265, H.264, MJPEG
	Record Rate(Analog)	Analog Camera (Main Stream) 8MP 8fps/CH, 5MP 12fps/CH, 4MP 15fps/CH, 2MP 30fps/CH, 720p 30fps/CH, SD 30fps/CH (Sub Stream) 720p or higher : 640x360 30fps/CH, SD : 30fps/CH * The maximum recording frame rate depends on the frame rate of the input camera. 8MP only supported on 1 channel.
	Recording Bandwidth	Maximum 25Mbps (Analog Camera only) ~ 17Mbps (Network Camera only)
	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
	Event Action	E-mail, PTZ preset, Alarm out, Buzzer, Monitor out
Search & Play	Playback Bandwidth	Maximum 32Mbps (6CH simultaneously)
	User	Maximum 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 2ea(Maximum 12TB)
Backup	File Backup	BU, EXE(Include Player), AVI(Webviewer only)
	Function	Maximum 6 CH play, Date-time/title display
Functions		
PTZ	Control	Via GUI, Wisenet WAVE, Webviewer, SSM, SmartViewer, Wisenet Mobile Viewer, System System
Smart Phone	Supported OS	iOS, Android

	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live(4CH) : Multi-Profile Support Playback(4CH Multi-Playback, Maximum 2MP) Event push
	Maximum 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(10/100/1000BASE-T)
	Alarm	In 4EA, Out 2EA - Relay Out1(NO/NC/COM) - Relay Out2(NO/COM)
	USB	2EA(Front/Rear 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, IR Remocon, 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	Maximum 28W (6T HDD)
Mechanical		
	Color / Material	Black / Metal
	Dimension (WxHxD)	370.0x 44.0 x 320mm(14.57" x 1.73" x 12.6")
	Weight	Approximately 2.3Kg (5.1 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(NTSC/PAL) (Main Stream) 8MP 8fps/CH, 5MP 12fps/CH, 4MP 15fps/CH, 2MP 30fps/CH, 720p 30fps/CH, SD 30fps/CH (Sub Stream) 720p or higher : 640x360 30fps/CH, SD : 30fps/CH * The maximum recording frame rate depends on the frame rate of the input camera.
Transmission Bandwidth		Maximum 15Mbps
Audio	Input/Output	4 Line in / 1 Line out
	Compression	G.711 (N/W Cam G.711, 726)
	Audio Communication	2-Way
Maximum 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) Device Certificate(Hanwha Techwin Root CA)
Viewer Software		Wisenet WAVE, SSM, Webviewer, Smart Viewer, Wisenet mobile, supports SDK/CGI(SUNAPI) for integration to 3rd party VMS

- The latest product information / specification can be found at hanwhasecurity.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 HRX-421
Unit : mm[inches]