



# HRX-421

4CH Pentabrid DVR



## Key Features

- 5-in-1 4CH Pentabrid DVR
- AHD/HDTVI/HDCVI/CVBS/IP inputs
- Max. Analog 4CH + NW 2CH(Max. 6CH), up to 8MP
- 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)

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4CH Pentabrid DVR



## 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(5MP, 4MP, 1080p, 720p) CVBS(NTSC/PAL)
Network camera	Inputs	Max. 6CH
	Resolution	8MP ~ CIF
	Protocols	SUNAPI(Wisenet), ONVIF
Live	Local Display	HDMI: 3840 x 2160, 1920x1080, 1280x720 VGA: 1920x1080, 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)	Analog Camera(NTSC/PAL) (Main Stream) 8MP 8/8fps CH, 5M 12/12fps CH, 4M 15/12fps CH, 2M 30/25fps CH, 720p 30/25fps/CH, SD 30/25fps/CH (Sub Stream) 720p or higher : 640x360 full fps/CH, SD signal : upto SD full fps/CH * The maximum recording frame rate depends on the frame rate of the input camera.
	Recording Bandwidth	Max. 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	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 2ea(Max 12TB)

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 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	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 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	Max. 28W (6T HDD 2ea)	
Mechanical		
Color / Material	Black / Metal	
Dimension (WxHxD)	370.0x 44.0 x 320mm(14.57" x 1.73" x 12.6")	
Weight	Approx. 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	

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com)

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Transmission speed	Analog Camera(NTSC/PAL) (Main Stream) 8MP 8/8fps CH, 5M 12/12fps CH, 4M 15/12fps CH, 2M 30/25fps CH, 720p 30/25fps/CH, SD 30/25fps/CH, 720p 30/25fps/CH, SD 30/25fps/CH (Sub Stream) 720p or higher : 640x360 full fps/CH, SD signal : upto SD full fps/CH * The maximum recording frame rate depends on the frame rate of the input camera.	
Transmission Bandwidth	Max. 15Mbps	
Audio	Input/Output	4 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) Device Certificate(Hanwha Techwin Root CA)	
Viewer Software	SSM, Webviewer, Smart Viewer, Wisenet mobile Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS	