

# HRX-821

8CH Pentabrid DVR



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## Key Features

- 5-in-1 8CH Pentabrid DVR
- AHD/HDTVI/HDCVI/CVBS/IP inputs
- Max. Analog 8CH + NW 2CH(Max. 10CH), up to 8MP
- H.265, H.264, MJPEG
- 8fps@8MP, 12fps@5MP, 30fps@2MP recording
- Coaxial control
- Smart search(only Network camera)
- Up to 4 SATA HDDs(6TB/HDD)
- HDMI/VGA Dual monitor
- P2P service(QR code connect)

**Display**

Analog camera	Inputs	8CH(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. 10CH
	Resolution	8MP ~ CIF
	Protocols	SUNAPI(Wisenet), ONVIF
Live	Local Display	1x HDMI, 1x VGA (Dual monitor) HDMI: 3840 x 2160, 1920x1080, 1280x720 (1920x1080, Clone mode) 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(480fps)

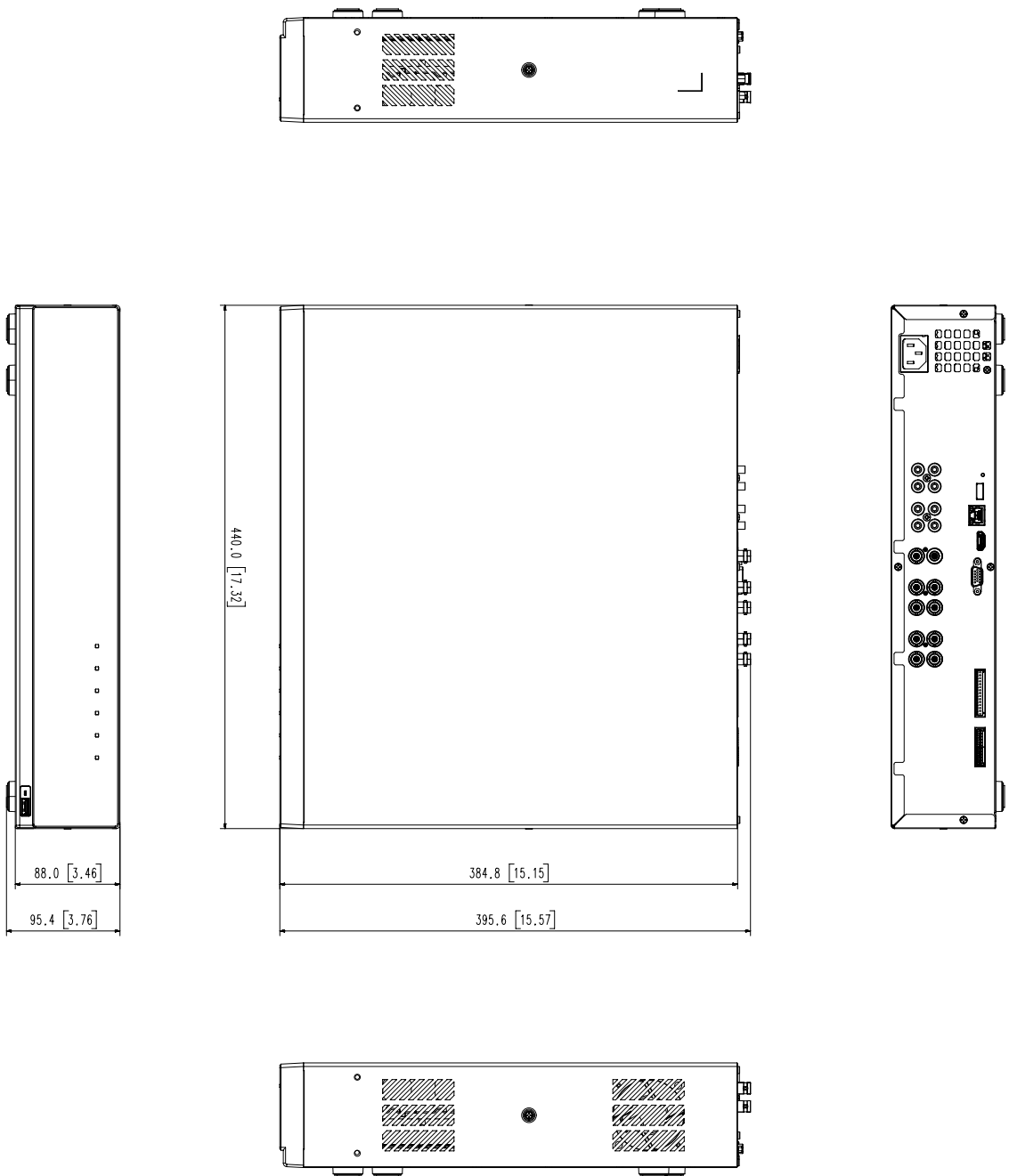
**Performance**

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. 40Mbps (Analog Camera only) ~ 28Mbps (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 (10CH simultaneously)
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	10CH(Local Monitor) 4Ch (CMS, Wisenet Mobile), 1Ch(Web)
	Fisheye Dewarping	WEB / CMS
Storage	Supported HDD	Up to 6TB
	HDD Slot	SATA 4ea(Max 24TB)
Backup	File backup	BU, EXE(Include Player), AVI(Webviewer only)
	Function	Max. 10 CH play, Date-time/title display
<b>Functions</b>		
PTZ	Control	Via GUI, Webviewer, SSM, SmartViewer, Wisenet Mobile Viewer, System Controller
Smart phone	Support Model	iOS, Android

	<b>Protocol Support</b>	RTP, RTSP, HTTP, CGI(SUNAPI)
	<b>Control</b>	Live(8ch) : Multi-Profile Support Playback(4Ch Multi Playback, Max 2MP) Event push
	<b>Max. Remote Users</b>	Search(3), Live Unicast(10)
<b>Redundancy</b>	<b>ARB</b>	Support
<b>Easy configuration</b>		Setup Wizard (Language Date/Time, Password, Network, Auto Camera Configuration), P2P (QR code)
<b>Coaxial Control</b>		CVBS(Pelco-C)/AHD/CVI/TVI
<b>Interface</b>		
	<b>HDMI</b>	1EA
	<b>VGA</b>	1EA
	<b>BNC</b>	8CH In / 1CH Out(Spot Output)
	<b>Audio</b>	Out(1EA, RCA, Line)
	<b>Ethernet</b>	RJ-45(10/100/1000BASE-T)
	<b>Alarm</b>	In 16EA, Out 4EA - Relay Out1(NO/NC/COM) - Relay Out2~4(NO/COM)
	<b>USB</b>	2EA(Front USB2.0, Rear USB 3.0))
	<b>Serial(Protocols)</b>	RS-485 (Samsung-T/Pelco-D/Pelco-p) * for PTZ
	<b>Power inlet</b>	1EA AC
<b>System</b>		
	<b>System Control</b>	Mouse, IR Remocon, Webviewer, System Controller(SPC-7000, SPC-6000, SPC-2000)
	<b>Language</b>	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai
<b>Environmental</b>		
	<b>Operating Temperature</b>	0°C to +40°C(+32°F to +104°F)
	<b>Operating Humidity</b>	20% ~ 85% RH
	<b>Certification</b>	UL, CE, FCC, KC
<b>Electrical</b>		
	<b>Power Input</b>	100~240 VAC±10%, 50/60 Hz
	<b>Power Consumption</b>	Max. 130W (6T HDD 4ea)
<b>Mechanical</b>		
	<b>Color / Material</b>	Black / Metal
	<b>Dimension (WxHxD)</b>	440 x 88 x 384.8mm(17.32" x 3.46" x 15.15")
	<b>Weight</b>	Approx. 4.6Kg (10.2 lb, 4TB HDD 1ea)
<b>Network</b>		
	<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>	Wisenet DDNS

<b>Transmission speed</b>		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.
<b>Transmission Bandwidth</b>		Max. 20Mbps
<b>Audio</b>	<b>Input/Output</b>	8 Line in / 1 Line out
	<b>Compression</b>	G.711 (N/W Cam 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 Techwin Root CA)
<b>Viewer Software</b>		SSM, Webviewer, Smart Viewer, Wisenet mobile Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS

- 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 HRX-821  
Unit : mm [inches]