HRX-420

4 Channel Pentabrid DVR

Key Features

- 5-in-1 4 Channel 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(Network camera)
- 1 SATA HDD(6TB)
- HDMI/VGA
- P2P service(QR code connect)

Display

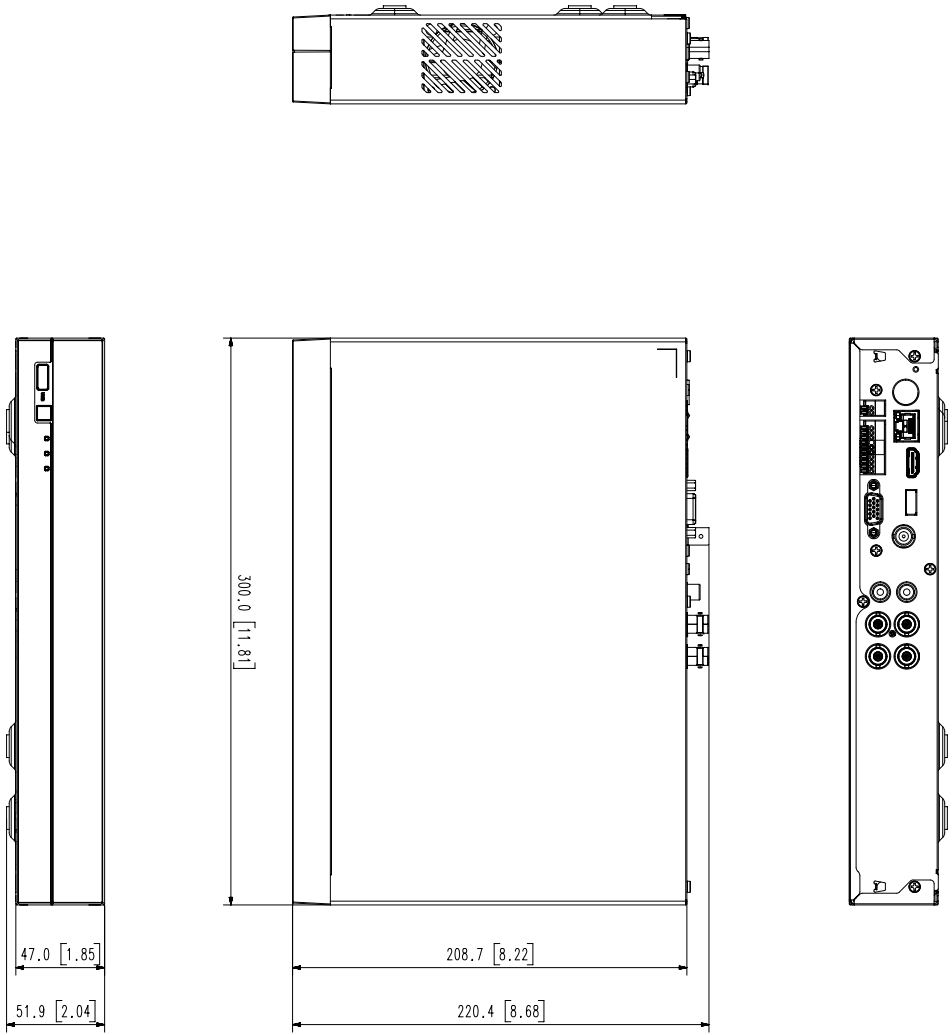|		
Analog Camera	Inputs	4CH(1Vp-p 75ohm, BNC)
	Signal Type	AHD(8MP, 5MP, 4MP, 1080p, 720p) HDTVI(8MP, 5MP, 4MP, 1080p, 720p) HDCVI(5MP, 4MP, 1080p, 720p) CVBS
Network Camera	Inputs	Maximum 6CH (2 channels available when all 4 analog channels are in use)
	Resolution	8MP ~ CIF
	Protocols	SUNAPI(Wisenet), 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(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 signal : 30/fps/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)
	Users	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 1ea(Maximum 6TB)
Backup	File Backup	BU, EXE(Include Player), AVI(Webviewer only)
	Function	Maximum 6 CH play, Date-time/title display

Functions

PTZ	Control	Via GUI, Webviewer, Wisenet WAVE, SSM, SmartViewer, Wisenet Mobile Viewer, System Controller
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 1EA - 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, 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 14W (6T HDD

Mechanical

	1ea)
Color / Material	Black / Metal
Dimension (WxHxD)	300 x 47 x 208.7mm (11.85" x 1.89" x 8.22")
Weight	Approximately 1.5Kg (3.3 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 (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 full fps/CH, SD signal : SD 30fps/CH * The maximum recording frame rate depends on the frame rate of the input camera.
Transmission Bandwidth		Maximum 15Mbps
Audio	Input/Output	1 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, SmartViewer, Wisenet mobile. Supports SDK/CGI(SUNAPI) for integration to 3rd party VMS

- The lastest 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.

47.0 [1.85]

51.9 [2.04]

300.0 [11.81]

208.7 [8.22]

220.4 [8.68]

Appearance drawing HRX-420
Unit : mm[inches]

Hanwha Techwin