Hanwha Vision

HRX-1632
16CH Pentabrid DVR

FC | UL LISTED | CE | EAC | NDAA COMPLIANT

Key Features

• 5-in-1 16CH Pentabrid DVR
• AHD/HDTVI/HDCVI/CVBS/IP inputs
• Total 16CH (Analog Max. 16CH and Network Max. 8CH supported), up to 4MP
• H.265, H.264, MJPEG codec
• 15/12fps@4MP half, 15/12fps@2MP recording
• Coaxial control
• Up to 4 SATA HDDs(6TB/HDD)
• HDMI/VGA Dual monitor
• P2P service (QR code connect)

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16CH Pentabrid DVR

Specifications

Display

Analog camera	Inputs	16CH(1Vp-p 75ohm, BNC)
	Signal Type	AHD(4MP, 1080p, 720p) HDTVI(4MP, 1080p, 720p) HDCVI(4MP, 1080p, 720p) CVBS(NTSC/PAL)
Network camera	Inputs	Max. 8CH
	Resolution	8MP ~ CIF
	Protocols	SUNAPI(Wisenet), ONVIF
Live	Local Display	1x HDMI, 1x VGA (Dual monitor) HDMI: 1920x1080, 1280x1024, 1280x720 VGA: 1920x1080, 1280x1024,, 1280x720 (Expand 1024*768)
	Resolution	[Analog Camera(NTSC/PAL)] - 4MP(4M Half 1280*1440, 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)4M(4M Half 1280*1440) 15/12fps, 2M 15/12fps, 720p 30/25fps, 960H 30/25fps (NTSC/PAL per CH) (Sub Stream) 720p or higher : 640x368 full fps/CH, SD signal : upto CIF 15/12 fps/CH * The maximum recording frame rate depends on the frame rate of the input camera.
	Recording Bandwidth	Max. 80Mbps
	Resolution	4MP(4M Half 1280*1440) ~ 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 & Playback	Playback Bandwidth	Max. 32Mbps (16CH simultaneously)
	User	Max. 4 users (Set 1, Remote 3)
	Simultaneous playback	16CH(Local Monitor, CMS), 4CH(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. 16 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(16ch) : 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	16CH In / 1CH Out(Spot Output)
Audio	Out(1EA, RCA, Line)
Ethernet	RJ-45(10/100/1000BASE-T)
Alarm	In 16EA, Out 4EA - Relay Out1(NO/NC/COM) - Relay Out2~4(NO/COM)
USB	2EA(Front USB2.0, Rear USB 3.0)
Serial(Protocols)	RS-485/422 (Samsung-T/Pelco-D/Pelco-p) * for PTZ
Power inlet	1EA AC

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, 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	100~240 VAC±10%, 50/60 Hz
Power Consumption	Max. 120W (6T HDD 4ea)

Mechanical

Color / Material	Black / Metal
Dimension (WxHxD)	440 x 88 x 384.8mm(17.32" x 3.46" x 15.15")
Weight	Approx. 4.6Kg (10.14 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)4M(4M Half 1280*1440) 15/12fps, 2M 15/12fps, 720p 30/25fps, 960H 30/25fps (NTSC/PAL per CH) (Sub Stream) 720p or higher : 640x368 full fps/CH, SD signal : upto CIF 15/12 fps/CH * The maximum recording frame rate depends on the frame rate of the input camera.		
Transmission Bandwidth	Max. 100Mbps		
Audio	Input/Output	16 Lline in (Built in 4 Line, Option : Audio Extension Cable) / 1Line 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, SmartViewer, Wisenet Mobile Viewer Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS		