



HRX-1635

16CH Pentabrid DVR



Key Features

- 5-in-1 16CH Pentabrid DVR
- AHD/HDTVI/HDCVI/CVBS/IP inputs
- Total 18CH(Analog Maximum 16CH and Network Maximum 18CH), up to 8MP
- H.265, H.264, MJPEG
- 8fps@8MP, 12fps@5MP, 15/12fps@4MP, 30/25fps@2MP recording
- Coaxial control
- Smart search(only Network camera)
- Up to 8 SATA HDDs(6TB/HDD)
- HDMI/VGA Dual monitor (Expand mode)
- P2P service(QR code connect)

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Specifications

Display		
Analog camera	Inputs	16CH(1Vp-p 75ohm, BNC)
	Signal Type	- AHD(8MP, 5MP, 4MP, 1080p, 720p) - HDTVI(8MP, 5MP, 4MP, 1080p, 720p) - HDCVI(8MP, 5MP, 4MP, 1080p, 720p) - NTSC/PAL
Network camera	Inputs	2CH (Up to 18CH)
	Resolution	8MP ~ CIF
	Protocols	SUNAPI(Wisenet), ONVIF
Live	Local Display	1x HDMI, 1x VGA (Dual monitor) HDMI: 3840 x 2160, 2560x1440, 1920x1080, 1280x1024, 1280x720 VGA: 1920x1080, 1280x1024, 1280x720, 1024x768
	Multi Screen Display	[Local monitor] Dynamic layout/Sequence, [Web] 1/2V/2H /3V/4/6/1+5/1+7/9/sequence
	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] - 2MP(up to 30fps/CH)
Performance		
Operating System	Embedded	Linux
Record	Compression	H.265, H.264, MJPEG
	Record Rate(Analog)	(Main Stream, NT/PAL) 8M 8/8fps, 5M 12/12fps, 4M 15/12fps, 2M 30/25fps, 720p 30/25fps, Under 960H 30/25fps/CH (Sub Stream) 720p/CH or Higher : 640x368 Full fps, SD : up to SD Full fps * The maximum recording frame rate depends on the frame rate of the input camera.
	Recording Bandwidth	Max. 128Mbps
	Resolution	8MP ~ CIF
	Mode	Normal, Dual Stream, Schedule(Continuous/Event), Event (Pre/Post), Bookmark
	Event Trigger	Alarm Input, Video Loss Analog Camera : Video Loss, Motion Detection, Tampering Network Camera : Camera Event(Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event
	Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown

Search & Play	Playback Bandwidth	Max. 32Mbps (18CH simultaneously)
	User	Max. 4 users (Set 1, Remote 3)
	Simultaneous playback	18CH(Local Monitor),18Ch (CMS), 4Ch (Wisenet Mobile), 1Ch(Web)
	Fisheye Dewarping	CMS (only N/W Camera)
	Mode	Date & Time (Calendar) / Event log list / Text search (POS), Export, Smart search (Virtual Line w/ direction, Enter / Exit), ARB search, Bookmark search
	Resolution	8MP ~ CIF
	Playback Control	Fast Forward/Backward (x2,x4,x8,x16,x32,x64, x128, x256) Slow Forward/Backward (x1/2,x1/4,x1/8) ※Move one step up/down
Storage	Supported HDD	Up to 6TB
	HDD Slot	SATA 8ea(Max. 48TB)
Backup	File backup	Set : Recorder, SEC, AVI Webviewer : AVI
	Function	Max. 16 CH play, Date-time/title display

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 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 : 640x368 full fps/CH, SD signal : up to CIF full fps/CH * The maximum recording frame rate depends on the frame rate of the input camera.	
Transmission Bandwidth	Max. 100Mbps	
Audio	Input/Output	16 Line in (RCA 4 Line, Option : Audio Extension Cable) / 1Line line out
	Compression	G.711 (N/W Camera 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 Vision Root CA)	
Web viewer	Supported OS	Windows 10, Mac OS 11 Big Sur and later
	Supported browser	Chrome v99 or higher, Edge v99 or higher, Safari v14.0.3 or higher (as of March 2022)
Viewer Software	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer, Wisenet Viewer	

Functions		
Camera Setup	Register	Auto, Manual
PTZ	Control	Via GUI, Webviewer, SSM, SmartViewer, Wisenet Mobile Viewer, System Controller
	Preset	300 presets
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)	

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](https://www.hanwhavision.com)
Hanwha Vision is formerly known as Hanwha Techwin.

Coaxial Control CVBS(Pelco-C)/AHD/CVI/TVI

Interface		
Front	Indicator	LED(Status indicator) : Power(1), HDD Action(1), Alarm(1), Record(1), Network(1), Backup(1)
Reset	Switch(1EA)	
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 (AC100V)	
System		
Log	Log List	Max. 100,000 (System Log, Event Log each), (HRX-1632)
System Control	Mouse, Webviewer, System Controller(SPC-7000, SPC-6000, SPC-2000, SPC-2001)	
Language	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Romanian, 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, UKCA	
Electrical		
Power Input	100~240 VAC± 10%, 50/60 Hz	
Power Consumption	Max. 200W (6T HDD 8ea)	
Mechanical		
Color / Material	Black / Metal	
Dimension (WxHxD)	440 x 88 x 384.8mm(17.32” x 3.46” x 15.15”)	
Weight	Approx. 6.10Kg (13.45 lb, 4TB HDD 1ea)	

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CAD

Unit:mm [inch]

