



# 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

<b>Analog camera</b>	<b>Inputs</b>	16CH(1Vp-p 75ohm, BNC)
	<b>Signal Type</b>	- AHD(8MP, 5MP, 4MP, 1080p, 720p) - HDTVI(8MP, 5MP, 4MP, 1080p, 720p) - HDCVI(8MP, 5MP, 4MP, 1080p, 720p) - NTSC/PAL
<b>Network camera</b>	<b>Inputs</b>	2CH (Up to 18CH)
	<b>Resolution</b>	8MP ~ CIF
	<b>Protocols</b>	SUNAPI(Wisenet), ONVIF
<b>Live</b>	<b>Local Display</b>	1x HDMI, 1x VGA (Dual monitor) HDMI: 3840 x 2160, 2560x1440, 1920x1080, 1280x1024, 1280x720 VGA: 1920x1080, 1280x1024, 1280x720, 1024x768
	<b>Resolution</b>	[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

<b>Record</b>	<b>Compression</b>	H.265, H.264, MJPEG
	<b>Record Rate(Analog)</b>	(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 : upto SD Full fps * The maximum recording frame rate depends on the frame rate of the input camera.
	<b>Recording Bandwidth</b>	Max. 128Mbps (HRX-1635)
	<b>Resolution</b>	8MP ~ CIF
	<b>Mode</b>	Normal, Dual Stream, Schedule(Continuous/Event), Event (Pre/Post), Bookmark
	<b>Event Trigger</b>	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
<b>Search &amp; Play</b>	<b>Event Action</b>	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown
	<b>Playback Bandwidth</b>	Max. 32Mbps (18CH simultaneously)
	<b>User</b>	Max. 4 users (Set 1, Remote 3)
	<b>Simultaneous playback</b>	18CH(Local Monitor), 18Ch (CMS), 4Ch (Wisenet Mobile), 1Ch(Web)
<b>Storage</b>	<b>Fisheye Dewarping</b>	CMS (only N/W Camera)
	<b>Supported HDD</b>	Up to 6TB
<b>Backup</b>	<b>HDD Slot</b>	SATA 8ea(Max. 48TB)
	<b>File backup</b>	Set : Recorder, SEC, AVI Webviewer : AVI
	<b>Function</b>	Max. 16 CH play, Date-time/title display

### Functions

<b>PTZ</b>	<b>Control</b>	Via GUI, Webviewer, SSM, SmartViewer, Wisenet Mobile Viewer, System Controller
<b>Smart phone</b>	<b>Support Model</b>	iOS, Android
	<b>Protocol Support</b>	RTP, RTSP, HTTP, CGI(SUNAPI)
	<b>Control</b>	Live(16ch) : 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>		16CH 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-485/422 (Samsung-T/Pelco-D/Pelco-p) * for PTZ
<b>Power inlet</b>		1EA AC ( AC100V)
<b>System</b>		
<b>System Control</b>		Mouse, 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, UKCA
<b>Electrical</b>		
<b>Power Input</b>		100~240 VAC±10%, 50/60 Hz
<b>Power Consumption</b>		Max. 200W (6T HDD 8ea)
<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. 7.70Kg (17 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 (Sub Stream) 720p or higher : 640x368 full fps/CH, SD signal : upto CIF full fps/CH * The maximum recording frame rate depends on the frame rate of the input camera.
<b>Transmission Bandwidth</b>		Max. 100Mbps
<b>Audio</b>	<b>Input/Output</b>	16 Lline in (RCA 4 Line, Option : Audio Extension Cable) / 1Line line out
	<b>Compression</b>	G.711 (N/W Camera 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, SmartViewer, Wisenet Mobile Viewer, Wisenet Viewer Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS

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CAD

Unit: mm [inch]

