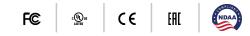


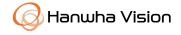


4CH Pentabrid DVR



Key Features

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



4CH Pentabrid DVR



Specifications

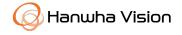
Display		
Analog camera	Inputs	4CH(1Vp-p 75ohm, BNC)
	Signal Type	AHD(8MP, 5MP, 4MP, 1080p, 720p) HDTVI(8MP, 5MP, 4MP, 1080p, 720p) HDCVI(5MP, 4MP, 1080p, 720p) CVBS(NTSC/PAL)
Network camera	Inputs	Max. 6CH
	Resolution	8MP ~ CIF
	Protocols	SUNAPI(Wisenet), ONVIF
Live	Local Display	1x HDMI, 1x VGA (simultaneous output) HDMI: 3840 x 2160, 2560x1440, 1920x1080, 1280x1024, 1280x720 VGA: 1920x1080, 1280x1024, 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(120fps)
Performance		
	Compression	H.265, H.264, MJPEG
Record	Record Rate(Analog)	Analog Camera) (Main Stream) 8MP 8/8fps, 5M 12/12fps, 4M 15/12fps, 2M 30/25fps, 720p 30/25fps, 960H/640H 30/25fps (NTSC/PAL per 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.
	Recording Bandwidth	Max. 30Mbps
	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, Dynamic camera event
	Event Action	E-mail, PTZ preset, Alarm out, Buzzer, Monitor out
	Playback Bandwidth	Max. 32Mbps (6CH simultaneously)
Search & Play	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	6CH(Local Monitor), 4CH(CMS, Wisenet Mobile) 1CH(Web)
	Fisheye Dewarping	WEB / CMS



Storage HDD Stot SATA LeadMas of B) Backup But Deskup BUL EXEInclude Player). Aut/Webviewer only) Function Max. 6 CH play. Date-time/title display Functions Via GUL Webviewer. SSM. SmartWewer, Wisenet Mobile PTZ Control Via GUL Webviewer. SSM. SmartWewer, Wisenet Mobile Support Model IOS. Android Protocol Support Frinctions Environmental Protocol Support RTP. RTS. HTTP. CON/SUNAPI) Smart phone Export Model IOS. Android Protocol Support Redundancy ARB mote Users Support Support Redundancy ARB mote Users Support Support Easy configuration Setup Wizard (Language Date/Time.Password. Network. Auto Camera Configuration), P2P (QR code) Control VGA IEA IEA IEA IEA Nota IEA		Supported HDD	Up to 6TB	
File backup BU, EXELINCIDE Protection Max. 6 CH play, Date-time/title display Function Max. 6 CH play, Date-time/title display Functions Viewer, System Control PTZ Control Viewer, System Control Support Model IOS, Android Protecol Support RTP, RTSP, HTTP, Col(SUMAPI) Max. 6 Protecol Support RTP, RTSP, HTTP, Col(SUMAPI) Max. 6 Protecol Support Search(3), Live Unicast(10) Redundancy AB Support Bary configuration Setup Waraf (Language Dates) Search(3), Live Unicast(10) Control CVBS/Pelco-C)/AHD/CV/TVI Search (3), Live Unicast(10) Interface UNITERFORMER Support Interface UNITERFORMER Support Interface UNITERFORMER Support Interface IEA Support Support Interface IEA Support Support Support IEA Support Support Interface IEA Support Support Support IEA Support	Storage		•	
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Functions Functions PTZ Control Via GUI, Webviewer, SSM, SmartViewer, Wisenet Mobile PTZ Support Model IOS, Android Protocol Support PTP, PTSP, PTTP, Coll (SUNAPP) Protocol Support PTP, PTSP, PTTP, Coll (SUNAPP) Mar. Remote Users Search(3), Live Unicast(10) Redundancy ABB Support Redundancy ABB Support Coavail Control CVBS/Pelco-Cl/AHD/CV/TVI Coavail Control Coavail Control CVBS/Pelco-Cl/AHD/CV/TVI Coavail Control Interface IEA Search(3), Live Unicast(10) Interface IEA Search(3), Live Unicast(10) Audio Out(1EA RCA, Line) IEA Social (Protocols) Out (1EA Search(3), Live Unicast(10) Audio Out (1EA Felay Out(1NO/NCCOM) User - Relay Out(1NO/NCCOM) Search(3), Live Unicast, Protocols) System Control Kouse, Webviewer, System Controller(SPC-7000, SPC-6000, SPC-2000) System Control Mouse, Webviewer, System Controller(SPC-7000, SPC-6000, SPC-2000) <	Backup			
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Control Playback/4Ch Mulii Playback, Max 2MP) Event push Max. Remote Users Search(3), Live Unicast(10) Redundancy ARB Support Easy configuration Setup Witzard (Language Date/Time, Password, Network, Auto Camera Configuration), P2P (QR code) Coaxial Control VCWS(Pelco-C)/AHD/CV/TVI Interface Interface HOM EA VGA IEA Audio Out1(2A CA Line) Ethernet RI-4S(10/100 BASE-T) Alam -Rels(0) Out1(BA RCA Line) Serial[Protocols) RS-485 (Samsung-T)/Pelco-D/Pelco-p)* for PTZ Serial[Protocols) RS-485 (Samsung-T)/Pelco-D/Pelco-p)* for PTZ System Serial[Protocols] System Control RS-485 (Samsung-T)/Pelco-D/Pelco-p)* for PTZ System Control Mouse, Webviewer, System Controller (SPC -7000, SPC -6000, SPC -2000) System Control Mouse, Webviewer, System Controller (SPC -7000, SPC -6000, SPC -2000) Language Splish, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portugese, Daparese. Thai Control U. CE, FCC, KC Serial (CT user)		Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)	
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	Smart phone	Control	Playback(4Ch Multi Playback, Max 2MP)	
Easy configuration Setup Wizard (Language Date/Time, Password, Network, Auto Camera Configuration), P2P (QR code) Coaxial Control CVBS(Pelco-C)/AHD/CV/TVI Interface		Max. Remote Users	Search(3), Live Unicast(10)	
Coasial Control VBS[Pelco-C]/AHD/CVI/TVI Interface Interface HDMI 1EA SKC 4CH In / 1CH Out(Spot Output) Audio Out(1EA RCA Line) Ethernet RJ-45(10/100 BASE-T) Alarm In 4EA OUTEA BVE EAPlay Out(1NO/NC/COM) USB 2EA(Front/Rear USB2.0) Serial(Protocols) RS-485 (Samsung-T/Pelco-D/Pelco-p) * for PTZ Power inlet 1EAD Clinput Jack System System System Control Mouse, Webviewer, System Controller(SPC-7000, SPC-2000) Englagh, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Janguage Operating Temperature 0'C to +40°C(+32'F to +104'F) Operating Temperature 0'C to +40°C(+32'F to +104'F) Operating Humidity 20% - 85% RH Cettrification U. CE, FCC, KC Power Input DC12V Power Input DC12V Power Input DC12V Power Input Max. 22W (GT HDD 1ea) Mechanical Color / Material	Redundancy	ARB	Support	
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Power inlet 1EA DC Input Jack System System Control 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 0°C to +40°C(+32°F to +104°F) Operating Temperature 0°C to +40°C(+32°F to +104°F) Operating Humidity 20% ~ 85% RH Certification UL, CE, FCC, KC Hertrical V Power Input DC12V Power Consumption Max. 22W (6T HDD 1ea) Mechanical U Color / Material Black / Metal	USB	2EA(Front/Rear USB2.0)		
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Operating Humidity 20% ~ 85% RH Certification UL, CE, FCC, KC Electrical Power Input DC12V Power Consumption Max. 22W (6T HDD 1ea) Mechanical Color / Material Black / Metal	Environmental			
Certification UL, CE, FCC, KC Electrical DC12V Power Input DC12V (6T HDD 1ea) Mechanical UL Solor / Material Black / Metal	Operating Temperature	0°C to +40°C(+32°F to +104°F)		
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Power Input DC12V Power Consumption Max. 22W (6T HDD 1ea) Mechanical	Certification	UL, CE, FCC, KC		
Power Consumption Max. 22W (6T HDD 1ea) Mechanical Image: Color / Material Color / Material Black / Metal	Electrical			
Power Consumption Max. 22W (6T HDD 1ea) Mechanical Ketal	Power Input	DC12V		
Color / Material Black / Metal		Max. 22W (6T HDD 1ea)		
	Mechanical			
	Color / Material	Black / Metal		
	Dimension (WxHxD)			

Weight	Approx. 1.5Kg (3.30 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 8/8fps, 5M 12/12fps, 4M 15/12fps, 2M 30/25fps, 720p 30/25fps, 960H/640H 30/25fps (NTSC/PAL per 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.		
Transmission Bandwidth	Max. 32Mbps		
	Input/Output	1 Line in / 1 Line out	
Audio	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, Smart Viewer, Wisenet mobile Support SDK/CGI(SUNAPI) for integration to 3'rd party VMS		

Hanwha Vision



4CH Pentabrid DVR

CAD

Unit:mm [inch]

