



## ARD-1610

A series DVR



## **Key Features**

• AHD/TVI/CVI 16ch, 5MP(Half, Actual 2.5MP), 4MP(Half, Actual 2MP), 1080p(2MP) Camera input

- IP up to 5MP Input
- H.265, H.264, MJPEG
- 100Mbps IP camera recording
- 1RJ-45(WAN, 1Gbps)
- 2 SATA HDD(1 SATA up to 6TB)
- 4K HDMI Monitor output
- P2P service(QR code connect) support

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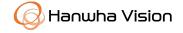


## **Specifications**

Display		
	Inputs	16CH(1Vp-p 75ohm, BNC)
Analog camera	Signal Type	AHD(5MP Half, 4MP Half, 1080p) HD TVI(5MP Half, 4MP Half, 1080p) HD CVI(5MP Half, 4MP Half, 1080p) CVBS(NTSC/PAL)
	Inputs	Additional 2CH (Max. 18CH)
Network camera	Resolution	5MP ~ CIF
	Protocols	SUNAPI(Wisenet), ONVIF
Live	Local Display	1x HDMI, 1x VGA [Single Mode] - HDMI: 3840 x 2160, 2560x1440, 1920x1080, 1280x1024, 1280x720
		[Dual Mode] Clone - HDMI: 1920x1080, 1280x1024, 1280x720 - VGA: 1920x1080, 1280x1024, 1280x720
	Multi Screen Display	[Local monitor] - Dynamic layout, Virtual channel view - up to 20 division [Web] 1 / 2 / 3 / 4 / 6 / 1+5 / 1+ 7 / 9
	Resolution	[Analog Camera(NTSC/PAL)] 5MP(Half), 4MP(Half), 2MP
		[Network Camera] - Typ. 2MP(240fps)
Performance		
Operating System	Embedded	Linux
	Compression	H.265, H.264, MJPEG
	Record Rate(Analog)	[Analog Camera(NTSC/PAL)] 5MP(5M Half 12fps/12fps) 4MP(4M Half 15fps/12fps) 2MP(2M 15fps/12fps)
		* Half : Horizontal resolution 1/2 * Resolution higher than 2MP will only record half of the resolution, 4MP will only record 2MP, and 5MP will only record 2.5MP
Descal	Recording Bandwidth	Max. 100Mbps
Record	Resolution	5MP ~ 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, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, SUNAPI Command, FTP, Shutdown

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	User	Max. 4 users (Set 1, Remote 3)	
	Simultaneous playback	18CH(Local Monitor),18Ch (CMS), 4Ch (Wisenet Mobile), 1Ch(Web)	
	Fisheye Dewarping	WEB / CMS	
Search & Play	Mode	Date & Time (Calendar) / Event log list / Text search (POS), Back up, Motion, Smart search (Virtual Line w/ direction, Enter / Exit) * All Search Included Preview Function ARB search	
	Resolution	5MP ~ 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	
Channel	Supported HDD	Up to 6TB	
Storage	HDD Slot	SATA 2ea(Max 12TB)	
5 4	File backup	BU, EXE(Include Player), AVI	
Backup	Function	Max. 18 CH play, Date-time/title display	
Network			
Protocol		P), RTSP, NTP, HTTP, DHCP (Server, Client), PPPoE, SMTP, ICMP, S, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)	
DDNS	Wisenet DDNS		
Transmission Bandwidth	Max. 100Mbps		
	Input/Output	4 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), Multica	st(20)	
Security	Transmission, Backup)	IP address filtering, User access log, 802.1x Authentication, Encryption (ID/PW, Recording, Transmission, Backup) Device Certificate(Hanwha Techwin Root CA)	
Web viewer	Supported OS	Windows 10, Mac OS 11 Big Sur and later	
web viewei	Supported browser	Chromeor, Edge , Safari	
Viewer Software		SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS	
Functions			
Camera Setup	Register	Auto, Manual	
PTZ	Control	Via GUI, Webviewer, SSM, Wisenet Viewer, Wisenet Mobile Viewer, System Controller	
	Preset	300 presets	
	Support Model	iOS, Android	
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)	
Smart phone	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	Install wizard support		
Coaxial Control	CVBS(Pelco-C)/AHD/CVI/TVI		
Interface			
interface		LED(Status indicator) :	
Front	Indicator	Power(1), Record(1), Network(1), HDD(1), Backup(1), Alarm(1)	

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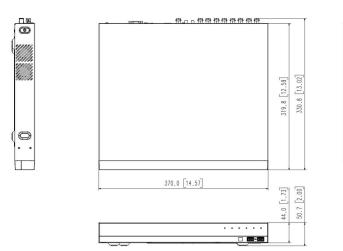
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Reset	Switch(1EA)	
HDMI	1EA	
VGA	1EA	
BNC	16CH In / 1CH Out(Spot Output)	
Audio	Out(1EA, RCA, Line)	
Ethernet	RJ-45(10/100/1000BASE-T)	
Alarm	NoneIn 4EA, Out 1EA - Relay Out1(NO/NC/COM)	
USB	3EA(Front/Rear USB2.0)	
Serial (Protocols)	RS-485 (Samsung-T/Pelco-D/Pelco-p) * for PTZ	
Power inlet	1EA DC Input Jack	
System		
Log	Log List Max. 100,000 (System Log, Event Log each)	
System Control	Mouse, Webviewer, System Controller(SPC-7000, SPC-6000, SPC-2000)	
Language	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese	
Environmental		
Environmental Operating Temperature	0°C to +40°C(+32°F to +104°F)	
	0°C to +40°C(+32°F to +104°F) 20% ~ 85% RH	
Operating Temperature		
Operating Temperature Operating Humidity	20% ~ 85% RH	
Operating Temperature Operating Humidity Certification	20% ~ 85% RH	
Operating Temperature Operating Humidity Certification Electrical	20% ~ 85% RH UL, CE, FCC, KC	
Operating Temperature Operating Humidity Certification Electrical Power Input	20% ~ 85% RH UL, CE, FCC, KC DC12V	
Operating Temperature Operating Humidity Certification Electrical Power Input Power Consumption	20% ~ 85% RH UL, CE, FCC, KC DC12V	
Operating Temperature Operating Humidity Certification Electrical Power Input Power Consumption Mechanical	20% ~ 85% RH UL, CE, FCC, KC DC12V Max. 40.8W (6T HDD 2ea)	

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