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		
Analog camera	Inputs	16CH(1Vp-p 75ohm, BNC)
	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)
Network camera	Inputs	Additional 2CH (Max. 18CH)
	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
Record	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
	Recording Bandwidth	Max. 100Mbps
	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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Search & Play	User	Max. 4 users (Set 1, Remote 3)
	Simultaneous playback	18CH(Local Monitor),18Ch (CMS), 4Ch (Wisenet Mobile), 1Ch(Web)
	Fisheye Dewarping	WEB / CMS
	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
Storage	Supported HDD	Up to 6TB
	HDD Slot	SATA 2ea(Max 12TB)
Backup	File backup	BU, EXE(Include Player), AVI
	Function	Max. 18 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 Bandwidth	Max. 100Mbps	
Audio	Input/Output	4 Line in / 1 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)	
Web viewer	Supported OS	Windows 10, Mac OS 11 Big Sur and later
	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
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	Install wizard support	
Coaxial Control	CVBS(Pelco-C)/AHD/CVI/TVI	

Interface

Front	Indicator	LED(Status indicator) : Power(1), Record(1), Network(1), HDD(1), Backup(1), Alarm(1)

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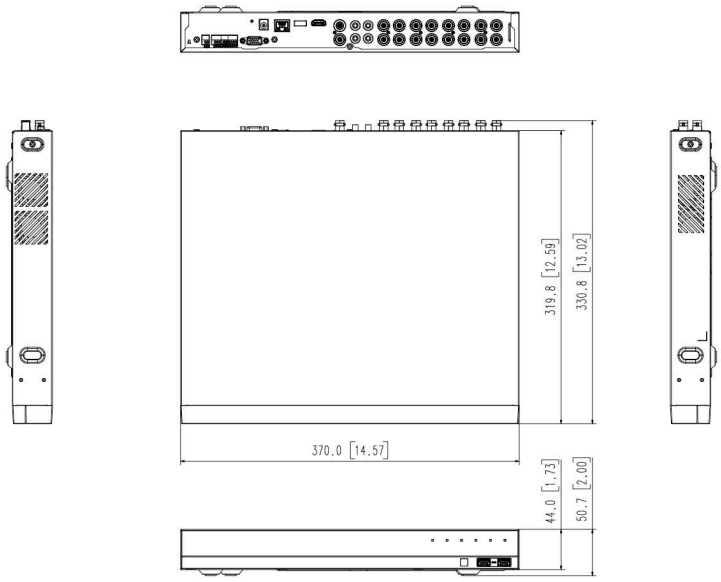
Reset	Switch(1EA)
HDMI	1EA
VGA	1EA
BNC	16CH In / 1CH Out(Spot Output)
Audio	Out(1EA, RCA, Line)
Ethernet	RJ-45(10/100/1000BASE-T)
Alarm	NoneIn 4EA, Out 1EA - Relay Out1(NO/NC/COM)
USB	3EA(Front/Rear USB2.0)
Serial(Protocols)	RS-485 (Samsung-T/Pelco-D/Pelco-p) * for PTZ
Power inlet	1EA DC Input Jack

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	
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	DC12V
Power Consumption	Max. 40.8W (6T HDD 2ea)

Mechanical	
Color / Material	Black / Metal
Dimension (WxHxD)	370.0x 44.0 x 320mm(14.57” x 1.73” x 12.6”)
Weight	Approx. 2.4Kg (5.3 lb, without HDD)



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