



# ARD-810

A series DVR



## Key Features

- AHD/TVI/CVI 8ch, 5MP(Half, Actual 2.5MP), 4MP(Half, Actual 2MP), 1080p(2MP) Camera input
- IP up to 5MP Input
- H.265, H.264, MJPEG
- 40Mbps IP camera recording
- 1RJ-45(WAN, 10/100)
- 1 SATA HDD up to 6TB
- 4K HDMI Monitor output
- P2P service(QR code connect) support

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## Specifications

### Display

Analog camera	Inputs	8CH(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 (Up to 10CH)
	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 12 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(120fps)

### 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 2.5M
	Recording Bandwidth	Max. 40Mbps
	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, FTP, SUNAPI Command, Shutdown

## Performance

<b>Search &amp; Play</b>	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	10CH(Local Monitor),10Ch (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
<b>Storage</b>	Supported HDD	Up to 6TB
	HDD Slot	SATA 1ea(Max 6TB)
<b>Backup</b>	File backup	BU, EXE(Include Player), AVI
	Function	Max. 10 CH play, Date-time/title display

## Function

<b>Camera Setup</b>	Register	Auto, Manual
<b>PTZ</b>	Control	Via GUI, Webviewer, SSM, Wisenet Viewer, Wisenet Mobile Viewer, System Controller
	Preset	300 presets
<b>Smart phone</b>	Support Model	iOS, Android
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live(10ch) : Multi-Profile Support Playback(4Ch Multi Playback, Max 2MP) Event push
	Max, Remote Users	Search(3), Live Unicast(10)
<b>Redundancy</b>	ARB	Support
<b>Easy configuration</b>		Install wizard support
<b>Coaxial Control</b>		CVBS(Pelco-C)/AHD/CVI/TVI

## Interface

<b>Front</b>	Indicator	LED(Status indicator) : Power(1), Record(1), Network(1)
<b>Reset</b>		Switch(1EA)
<b>HDMI</b>		1 EA
<b>VGA</b>		1 EA
<b>BNC</b>		8CH In / 1CH Out(Spot Output)
<b>Audio</b>		Out(1EA, RCA, Line)
<b>Ethernet</b>		RJ-45(10/100 BASE-T)
<b>Alarm</b>		In 4EA, Out 1EA - Relay Out1(NO/NC/COM)
<b>USB</b>		2EA(Front/Rear USB2.0)
<b>Serial(Protocols)</b>		RS-485 (Samsung-T/Pelco-D/Pelco-p) * for PTZ
<b>Power inlet</b>		1EA DC Input Jack

## System

<b>Log</b>	Log List	Max. 100,000 (System Log, Event Log each)
<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, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese

## Environmental

<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

## Electrical

<b>Power Input</b>	DC12V
<b>Power Consumption</b>	Max. 20.4W (6TB HDD 1ea)

## Mechanical

<b>Color / Material</b>	Black / Metal
<b>Dimension</b>	300.0x 47.0 x 208.7 mm (11.85 x 1.89 x 8.22 inch)
<b>Weight</b>	Approx. 1.1Kg (2.4 lb, without HDD)

## Network

<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>	Hanwha DDNS	
<b>Transmission Bandwidth</b>	Max. 40Mbps	
<b>Audio</b>	Input/Output	1 Line in / 1 Line out
	Compression	G.711 (N/W Camera G.711, 726)
	Audio Communication	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 Vision Root CA)	
<b>Web viewer</b>	Supported OS	Windows 10, Mac OS 11 Big Sur and later
	Supported browser	Chrome, Edge , Safari
<b>Viewer Software</b>	SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS	

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## CAD

Unit: mm [inch]

