



ARD-410

A series DVR



Key Features

- AHD/TVI/CVI 4ch, 5MP(Half, Actual 2.5MP), 4MP(Half, Actual 2MP), 1080p(2MP) Camera input
- IP up to 5MP Input
- H.265, H.264, MJPEG
- 30Mbps 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

Signal Type	Display		
Analog camera Signal Type		Inputs	4CH(1Vp-p 75ohm, BNC)
Resolution SMP - CIF Protocols SUNAP/(Wisenet), ONVIF 1x HDM1, 1x VGA Single Mode - HDMI: 3840 x 2160, 2560x1440, 1920x1080, 1280x102 1280x7220 Dual Mode Clone - HDMI: 1920x1080, 1280x1024, 1280x720 Cyda: 1920x1080, 1280x1024, 1280x720 Live Multi Screen Display Local monitor - Dynamic layout, Virtual channel view - up to 6 division Web] 1 / 2 / 3 / 4 / 6 / 1+ 5 / 1+ 7 / 9 Analog Camera(NTSC/PALI) SMP(Half), 4MP(Half), 2MP Resolution Network Camera - Typ. 2MP(120fps) Performance Compression L.265, H.264, MJPEG Analog Camera(NTSC/PALI) SMP(SMP) Half 12fps/12fps) 2MP(MH Half	Analog camera	Signal Type	HD TVI(5MP Half, 4MP Half, 1080p) HD CVI(5MP Half, 4MP Half, 1080p)
Protocols SUNAPI(Wisenet), ONVIF 1+ HDML 1x VCA [Single Mode] 1- HDMI: 8404 x 2160, 2560x1440, 1920x1080, 1280x102 1290x720 [Dual Mode] Clone		Inputs	Additional 2CH (Max. 6CH)
1x HDMI, 1x VGA Single Mode - HDMI: 3840 x 2160, 2560 x1440, 1920x1080, 1280x102 1280x720 1280x720 1280x720 1280x720 1280x1024, 1280x720 - VGA: 1920x1080, 1280x1024, 1280x720 1280x720, 1280x720, 1280x720 1280x720, 1280x720 1280x720, 1280x720 1280x720, 1280x720 1280x720, 128	Network camera	Resolution	5MP ~ CIF
Local Display Single Mode -HDM: 3840 x 2160, 2560x1440, 1920x1080, 1280x102 1280x720 Equal Mode Clone -HDM: 1920x1080, 1280x1024, 1280x720 -VgA: 1920x1080, 1280x1024, 1280x1024 -VgA: 192		Protocols	SUNAPI(Wisenet), ONVIF
Live HDMI: 1920x1080, 1280x1024, 1280x720	Live	Local Display	[Single Mode] - HDMI: 3840 x 2160, 2560x1440, 1920x1080, 1280x102
Multi Screen Display - Oynamic Layout, Virtual channel view - up to 6 division Web] 1/2/3/4/6/1+5/1+7/9 [Analog Camera(NTSC/PAL)] SMP(Half), 4MP(Half), 2MP [Network Camera] - Typ. 2MP(120fps) Performance Operating System Embedded Linux Compression H.265, H.264, MJPEG [Analog Camera(NTSC/PAL)] SMP(SMP Half 12fps/12fps) 4MP(4M Half 15fps/12fps) 4MP(4M Half 12fps/12fps) 4MP(4M Half 12f			- HDMI: 1920x1080, 1280x1024, 1280x720
Resolution Resolution Resolution Resolution Resolution Resolution Resolution Resolution Reprime Bended Linux Compression H.265, H.264, MJPEG [Analog Camera(NTSC/PAL)] 5MP(5M Half 12fps/12fps) 4MP(4M Half 15fps/12fps) 2MP(2M 15fps/12fps) 2MP(2M 15fps/12fps) 2MP(2M 15fps/12fps) 2MP(2M 15fps/12fps) 4MP will only record laff of the resolution, 4MP will only record 2.5h Record Recording Bandwidth Resolution Record Manual, Schedule (Continuous/Event), Event(Pre/Post), Dual Track Alarm Input Analog Camera: Video Loss, Motion Detection, Tamperin 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.		Multi Screen Display	- Dynamic layout, Virtual channel view - up to 6 division
Network Camera - Typ. 2MP(120fps) Performance		Resolution	[Analog Camera(NTSC/PAL)] 5MP(Half), 4MP(Half), 2MP
Operating System Embedded Linux Compression H.265, H.264, MJPEG [Analog Camera(NTSC/PAL)] 5MP(5M Half 12fps/12fps) 4MP(4M Half 15fps/12fps) 2MP(2M 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 Record Record Recording Bandwidth Max. 30Mbps Resolution 5MP ~ CIF Mode Manual, Schedule (Continuous/Event), Event(Pre/Post), Dual Track Alarm Input Analog Camera: Video Loss, Motion Detection, Tamperin 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,			
Compression H.265, H.264, MJPEG [Analog Camera(NTSC/PAL)]	Performance		
[Analog Camera(NTSC/PAL)] 5MP(5M Half 12fps/12fps) 4MP(4M Half 15fps/12fps) 2MP(2M 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 2.5N Record Recording Bandwidth Max. 30Mbps Resolution 5MP ~ CIF Mode Manual, Schedule (Continuous/Event), Event(Pre/Post), Dual Track Alarm Input Analog Camera : Video Loss, Motion Detection, Tamperin Network 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,	Operating System	Embedded	Linux
SMP(5M Half 12fps/12fps) 4MP(4M Half 15fps/12fps) 2MP(2M 15fps/12fps) 2MP(2M 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 Record Record Resolution Max. 30Mbps Resolution 5MP ~ CIF Manual, Schedule (Continuous/Event), Event(Pre/Post), Dual Track Alarm Input Analog Camera : Video Loss, Motion Detection, Tamperin 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 Event Action Event Action Event Push, PTZ Preset, Alarm Out, Buzzer,		Compression	H.265, H.264, MJPEG
* Resolution higher than 2MP will only record half of the resolution, 4MP will only record 2MP, and 5MP will only record 2.5M Record Resolution 5MP ~ CIF Mode Manual, Schedule (Continuous/Event), Event(Pre/Post), Dual Track Alarm Input Analog Camera: Video Loss, Motion Detection, Tamperin 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,	Record	Record Rate(Analog)	5MP(5M Half 12fps/12fps) 4MP(4M Half 15fps/12fps) 2MP(2M 15fps/12fps)
Resolution 5MP ~ CIF Mode Manual, Schedule (Continuous/Event), Event(Pre/Post), Dual Track Alarm Input Analog Camera: Video Loss, Motion Detection, Tamperin 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 E-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer,			* Resolution higher than 2MP will only record half of the
Mode Manual, Schedule (Continuous/Event), Event(Pre/Post), Dual Track Alarm Input Analog Camera: Video Loss, Motion Detection, Tamperin 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 E-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer,		Recording Bandwidth	Max. 30Mbps
Dual Track Alarm Input Analog Camera: Video Loss, Motion Detection, Tamperin 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 E-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer,		Resolution	5MP ~ CIF
Analog Camera: Video Loss, Motion Detection, Tamperin 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 E-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer,		Mode	Manual, Schedule (Continuous/Event), Event(Pre/Post), Dual Track
		Event Trigger	Analog Camera: Video Loss, Motion Detection, Tamperin Network Camera: Camera Event (Sensor, MD, Video analytics), VA event (Tampering, Enter / Exit, Passing,
		Event Action	





Audio Communication 2-Way Max Remote Users Search(3), Live Unicast(10), Multicast(20) Security Paddress filtering, User access log, 802.1x Authentication, Encryption (ID/PW, Recording, Transmission, Backup)			
Search & Play Fisheye Dewarping WEB / CMS WEL / CMS WEB / CMS WE A LEDIS WE WE / CMS WE A LE		User	Max. 4 users (Set 1, Remote 3)
Search & Play Mode POSS, Base kup, Mothors, Smart search (No. Manual Line Wy Function) Post		Simultaneous playback	
Search & Pilay Mode POSI, Back up, Motion, Smart search (Virtual Line will provise direction, Enter / Exit)* All Search (Virtual Line will provise direction, Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will provise direction). Enter / Exit)* All Search (Virtual Line will be exi		Fisheye Dewarping	WEB / CMS
Playback Control S256/S256/S256/S256/S256/S256/S256/S256/	Search & Play	Mode	(POS), Back up, Motion, Smart search (Virtual Line w/ direction, Enter / Exit) * All Search Included Preview Function
Playback Control X256) Silow Forward/Backward (x1/2x1/4x1/8) Silow Forward/Backward (x1/2x1/4x1/4x1/8) Silow Forward/Backward (x1/2x1/4x1/4x1/4x1/4x1/4x1/4x1/4x1/4x1/4x1/4		Resolution	5MP ~ CIF
Storage HDD Slot SATA Lea(Max 6TB) Backup File backup Function Max. 6 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, SMMP, DNMF (Profile-S), SUNAPI (Server, Client) DDNS Wisenet DDNS Wisenet DDNS Input/Output 1 Line in / 1 Line out Audio Compression Audio Communication 2-Way Max Remote Users Search (3), Live Unicast(10), Multicast(20) Device Certificate (Hamba Techwin Root CA) Web viewer Supported DS Windows 10, Mac OS 11 Big Sur and later Supported Drowser Viewer Software SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CG(ISUNAPI) for integration to 3"rd party VMS Functions Camera Setup Register Auto, Manual Freset Support Model Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Preset Auto, Manual Freset Support Model Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Max. Remote Users Search (3), Live Unicast(10) Max. Remote Users Search (3), Live Unicast(10) Redundancy ARB Support Live (Ceh.): Multi-Profile Support Playback (Ach Multi Playback, Max 2MP) Event push Live (Ceh.): Multi-Profile Support Playback (Ach Multi Playback, Max 2MP) Event push Event push Max. Remote Users Search (3), Live Unicast(10) Redundancy ARB Support Live (Ceh.): Multi-Profile Support Playback (Ach Multi Playback, Max 2MP) Event push Event push Live (Ceh.): Multi-Profile Support Playback (Ach Multi Playback, Max 2MP) Event push Event push Live (Ceh.): Multi-Profile Support Playback (Ach Multi Playback, Max 2MP) Event push Event push Live (Ceh.): Multi-Profile Support Playback (Ach Multi Playback, Max 2MP) Event push Event push Live (Ceh.): Multi-Profile Support Playback (Ach Multi Playback, Max 2MP) Event push Event push Easy configuration Install wizard support Coaxial Control Event push Event pus		Playback Control	x256) Slow Forward/Backward (x1/2,x1/4,x1/8)
HIDD Slot SATA 1ea(Max 67B) Backup File backup BU, EXE(Include Player), AVI Function Max. 6 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, SMMP, ONNIF (Profile-S), SUNAPI(Server, Client) DDNS Transmission Bandwidth Max. 30Mbps Input/Output 1 Line in / 1 Line out Compression Audio Communication 2-Way Max Remote Users Search(3), Live Unicast(10), Multicast(20) Security Paddress filtering, User access log, 802.1x Authentication, Encryption (ID/PW, Recording, Transmission, Backup) Device Certificate(Hanwha Techwin Root CA) Supported Drowser Supported Drowser Supported Wheever, Wisenet mobile Supported Supported Site Misenet wilesen trobile Support CGI(SUNAPI) for integration to 3'rd party-VMS Functions Functions Camera Setup Register Auto, Manual Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Preset 300 presets 300 presets Support Control Preset 300 presets Support Control Preset 300 presets Support Control Preset Support Model Invice(Sh): Multi-Profile Support Playback (Ach Multi Playback, Max 2MP) Event push Max. Remote Users Search(3), Live Unicast(10) Redundancy ARB Support LED(Status indicator): Power(1), Record(1), Network(1)	Classic	Supported HDD	Up to 6TB
Network Function Max. 6 CH play, Date-time/title display	Storage	HDD Slot	SATA 1ea(Max 6TB)
Network Protocol TCP/P, UDP/P, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), PPP0E, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SMMP, ONVIF (Profile-S), SUNAPI(Server, Client) DDNS Wisenet DDNS Transmission Bandwidth Max, 30Mbps Input/Output 1 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) P address filtering, User access log, 802.1x Authentication, Encryption (ID/PW, Recording, Transmission, Backup) Device Certificate(Hanwha Techwin Root CA) Web viewer Software Supported OS Windows 10, Mac OS 11 Big Sur and later Viewer Software Symported OS Windows 10, Mac OS 11 Big Sur and later Viewer Software Symported Drowser Chromeor, Edge, Safari Symported Drowser Chromeor, Edge, Safari Viewer Software Register Auto, Manual PTZ Control Via GUI, 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 Model iOS, Android Protocol Support Playback(4Ch Multi-Profile Support Sevent push Max. Remote Users Search(3), Live Unicast(10) Redundancy ARB Support Coaxial Control CVBS(Pelco-C)/AHD/CVI/TVI Interface Front Indicator LED(Status indicator): Front LED(Status indicator): Front Power(1), Record(1), Network(1)	D. J.	File backup	BU, EXE(Include Player), AVI
Protocol TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), PPPOE, SMTP, ICMP, ICMP, RRP, DNS, DDNS, uPnP, HTTPS, SMMP, ONVIF (Profile-S), SUNAP((Server, Client)) Wissenet DDNS Transmission Bandwidth Max. 30Mbps 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 Paddress filtering, User access log, 80.2.1x Authentication, Encryption (ID/PW, Recording, Transmission, Backup) Device Certificate (Hanwha Techwin Root CA) Web viewer Supported DS Windows 10, Mac OS 11 Big Sur and later Viewer Software SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CG((SUNAPI) for integration to 3'rd party vMS Functions Functions Functions Camera Setup Register Auto, Manual PTZ Control Viewer, System Controller Preset 300 presets Support Model iOS, Android Preset 300 presets Support Model iOS, Android Preset 300 presets Support Model iOS, Android Protocol Support RTP, RTSP, HTTP, CG((SUNAPI)) Smart phone Control ARB Support Protocol Support RTP, RTSP, HTTP, CG((SUNAPI)) Max. Remote Users Search(3), Live Unicast(10) Redundancy ARB Support Coaxial Control CYBS(Pelco-C)/AHD/CVI/TVI Interface Front Indicator LED(Status indicator): Power(1), Record(1), Network(1)	васкир	Function	Max. 6 CH play, Date-time/title display
Protocol TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), PPPOE, SMTP, ICMP, ICMP, RRP, DNS, DDNS, uPnP, HTTPS, SMMP, ONVIF (Profile-S), SUNAP((Server, Client)) Wissenet DDNS Transmission Bandwidth Max. 30Mbps 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 Paddress filtering, User access log, 80.2.1x Authentication, Encryption (ID/PW, Recording, Transmission, Backup) Device Certificate (Hanwha Techwin Root CA) Web viewer Supported DS Windows 10, Mac OS 11 Big Sur and later Viewer Software SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CG((SUNAPI) for integration to 3'rd party vMS Functions Functions Functions Camera Setup Register Auto, Manual PTZ Control Viewer, System Controller Preset 300 presets Support Model iOS, Android Preset 300 presets Support Model iOS, Android Preset 300 presets Support Model iOS, Android Protocol Support RTP, RTSP, HTTP, CG((SUNAPI)) Smart phone Control ARB Support Protocol Support RTP, RTSP, HTTP, CG((SUNAPI)) Max. Remote Users Search(3), Live Unicast(10) Redundancy ARB Support Coaxial Control CYBS(Pelco-C)/AHD/CVI/TVI Interface Front Indicator LED(Status indicator): Power(1), Record(1), Network(1)	Matrical		
MFARR, DNS, DDNS Wisenet DDNS Wisenet DDNS Wisenet DDNS Max. 30Mbps Input/Output	Network	TCD/ID 1100/ID D== /110=1	CON DICE AIT HITTO DUCE (C
Transmission Bandwidth Max. 30Mbps Input/Output 1 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) Fransmission, Backup) Device Certificate(Hanwha Techwin Root CA) Web viewer Software SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS Functions Functions Functions Control Via GUI, Webviewer, SSM, Wisenet Viewer, Wisenet Mobile Viewer, System Controller Preset 300 presets Support Model iOS, Android Protocol Support Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Easy configuration Control Install wizard support Coavial Control Install wizard support Coavial Control Indicator LED(Status indicator): Power(1), Record(1), Network(1)	Protocol		
Audio Compression G.711 (N/W Cam G.711, 726) 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 Paddress 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 CG(ISUNAPI) for integration to 3 rd party VMS Functions 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 Model RTP, RTSP, HTTP, CG(ISUNAPI) Smart phone Control Live(6ch): Multi-Profile Support Playback (ACh Multi Playback, Max 2MP) Event punch Max. Remote Users Search (3), Live Unicast (10) Redundancy ARB Support Coaxial Control CVBS(Pelco-C)/AHD/CVI/TVI Interface Front Indicator LED(Status indicator): Power(1), Record(1), Network(1)	DDNS	Wisenet DDNS	
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 Paddress filtering, User access log, 802.1x Authentication, Encryption (ID/PW, Recording, Transmission, Backup) Device Certificate(Hanwha Techwin Root CA) Web viewer Software Supported Dos Windows 10, Mac OS 11 Big Sur and later Viewer Software Systymere, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3 rd party VMS Functions Camera Setup Register Auto, Manual PTZ Control Viewer, System Controller Preset 300 presets Support Model iOS, Android Protocol Support Protocol Support Smart phone Control Live(Ach): Multi-Profile Support Playback(ACh Multi Playback, Max 2MP) Event push Max. Remote Users Search(3), Live Unicast(10) Redundancy ARB Support Coaxial Control CVBS(Pelco-C)/AHD/CVI/TVI Interface Front Indicator LED(Status indicator): Power(1), Record(1), Network(1)	Transmission Bandwidth	Max. 30Mbps	
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(Hannwha Techwin Root CA) Web viewer Supported OS Windows 10, Mac OS 11 Big Sur and later Viewer Software SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS Functions 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(6ch): Multi-Profile Support Playback(4Ch Multi Playback, Max 2MP) Swent 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 LED(Status indicator): Power(1), Record(1), Network(1)		Input/Output	1 Line in / 1 Line out
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(Hannwha 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 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(6ch) : Multi-Profile Support Produdancy ARB Support Redundancy ARB Support Easy configuration Install wizard support Coaxial Control CVBS(Pelco-C)/AHD/CVI/TVI Interface Front LED(Status indicator): Power(1), Record(1), Network(1)	Audio	Compression	G.711 (N/W Cam G.711, 726)
Paddress filtering, User access log, 802.1x Authentication, Encryption (ID/PW, Recording, Transmission, Backup)		Audio Communication	2-Way
Security Transmission, Backup) Device Certificate(Hanwha Techwin Root CA) Web viewer Software Supported DS Windows 10, Mac OS 11 Big Sur and later 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(6ch): Multi-Profile Support Playback (ACh 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)	Max Remote Users	Search(3), Live Unicast(10), Multicast(20)	
Web viewer Supported browser Chromeor, Edge , Safari Viewer Software SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS Functions 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 Live(6ch): 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 LED(Status indicator): Power(1), Record(1), Network(1) 	Security	Transmission, Backup)	
Supported browser Chromeor, Edge , Safari Viewer Software SSM, Webviewer, Wisenet Viewer, Wisenet mobile support CGI(SUNAPI) for integration to 3'rd party VMS Functions Functions Camera Setup Register Auto, Manual Control Via GUI, Webviewer, SSM, Wisenet Viewer, Wisenet Mobile Viewer, System Controller Preset 3000 presets Support Model iOS, Android Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Smart phone Control Live(6ch): Multi-Profile Support Playback(4ch Multi Playback, Max 2MP) Evert 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)	Web viewer	Supported OS	Windows 10, Mac OS 11 Big Sur and later
Functions Camera Setup Register Auto, Manual Control Via GUI, Webviewer, SSM, Wisenet Viewer, Wisenet Mobile Viewer, System Controller Preset Support Model Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Fortinal Control Control Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Event push Max. Remote Users Search(3), Live Unicast(10) Redundancy ARB Support Coaxial Control CVBS(Pelco-C)/AHD/CVI/TVI Interface Front Indicator LED(Status indicator): Power(1), Record(1), Network(1)	wed viewer	Supported browser	Chromeor, Edge , Safari
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 Live(6ch): 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)	Viewer Software		
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) Live(6ch): 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)	Functions		
PTZ Preset Support Model Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Smart phone Control Control Max. Remote Users ARB Support ARB Support Support Coaxial Control CVBS(Pelco-C)/AHD/CVI/TVI Live(6ch): Multi-Profile Support Playback (4Ch Multi Playback, Max 2MP) Event push Support Support Support Support Support Live(6ch): Multi-Profile Support Playback (4Ch Multi Playback, Max 2MP) Event push Support Easy configuration Install wizard support CVBS(Pelco-C)/AHD/CVI/TVI Interface Front Indicator LED(Status indicator): Power(1), Record(1), Network(1)	Camera Setup	Register	Auto, Manual
Smart phone Smart phone Control Control Max. Remote Users Redundancy ARB Support Support Coaxial Control CVBS(Pelco-C)/AHD/CVI/TVI Interface Front Indicator Support OS, Android OS, And	PTZ	Control	
Protocol Support RTP, RTSP, HTTP, CGI(SUNAPI) Smart phone Control 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)		Preset	300 presets
Smart phone Control Live(6ch): Multi-Profile Support Playback(4Ch Multi Playback, Max 2MP) Event push Max. Remote Users Search(3), Live Unicast(10) Redundancy ARB Support Coaxial Control CVBS(Pelco-C)/AHD/CVI/TVI Interface Front Indicator Indicator LED(Status indicator): Power(1), Record(1), Network(1)		Support Model	iOS, Android
Control 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)		Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
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)	Smart phone	Control	Playback(4Ch Multi Playback, Max 2MP)
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)		Max. Remote Users	Search(3), Live Unicast(10)
Coaxial Control CVBS(Pelco-C)/AHD/CVI/TVI Interface Front Indicator LED(Status indicator): Power(1), Record(1), Network(1)	Redundancy	ARB	Support
Interface Front Indicator LED(Status indicator): Power(1), Record(1), Network(1)	Easy configuration	Install wizard support	
Front LED(Status indicator) : Power(1), Record(1), Network(1)	Coaxial Control	CVBS(Pelco-C)/AHD/CVI/TVI	
Power(1), Record(1), Network(1)	Interface		
	Front	Indicator	
	Reset	Switch(1EA)	





HDMI	1EA	
VGA	1EA	
BNC	4CH In / 1CH Out(Spot Output)	
Audio	Out(1EA, RCA, Line)	
Ethernet	RJ-45(10/100 BASE-T)	
Alarm	In 4EA, Out 1EA - Relay Out1(NO/NC/COM)	
USB	2EA(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. 19.2W (6T HDD 1ea)	
Mechanical		
Color / Material	Black / Metal	
Dimension (WxHxD)	300 x 47 x 208.7mm (11.85" x 1.89" x 8.22")	
Weight	Approx. 1.1Kg (2.4 lb, without HDD)	



