



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

Display

| | | |
|----------------|----------------------|--|
| Analog camera | Inputs | 4CH(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 6CH) |
| | 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 6 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. 30Mbps |
| | 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

| | | |
|--------------------------|-----------------------|--|
| Search & Play | User | Max. 4 Users (Local 1, Remote 3) |
| | Simultaneous playback | 6Ch(Local Monitor),6Ch (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 1ea(Max 6TB) |
| Backup | File backup | BU, EXE(Include Player), AVI |
| | Function | Max. 6 CH play, Date-time/title display |

Function

| | | |
|---------------------------|-------------------|--|
| 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(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) |
| Reset | | Switch(1EA) |
| HDMI | | 1 EA |
| VGA | | 1 EA |
| 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 (6TB HDD 1ea) |

Mechanical

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

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 | Hanwha DDNS | |
| Transmission Bandwidth | Max. 30Mbps | |
| Audio | Input/Output | 1 Line in / 1 Line out |
| | Compression | G.711 (N/W Camera 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 Vision Root CA) | |
| Web viewer | Supported OS | Windows 10, Mac OS 11 Big Sur and later |
| | Supported browser | Chrome, Edge , Safari |
| Viewer Software | SSM, Webviewer, Wisenet Viewer, Wisenet mobile Support CGI(SUNAPI) for integration to 3'rd party VMS | |

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CAD

Unit: mm [inch]

