HRD-442

4CH 4M H.264 AHD DVR

Key Features

- TVI, CVI (Max. 2MP), Analog Camera Input Support
- H.264 supported
- Up to 60 / 50 (4M)fps Recording Rate
- Up to 120 / 100 (1080p)fps Recording Rate
- HDMI / VGA Video Output
- 4CH Audio Inputs / 1CH Audio Output
- Up to 2 Internal HDDs
- Coaxial Cable (Pelco-C, ACP)
- Smart Phone Support (Android, iOS)

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Specifications

Display

Analog camera	Inputs	4CH(1Vp-p 75ohm, BNC)
	Signal Type	AHD(4MP, 1080p, 720p) HDTVI(1080p) HDCVI(1080p) CVBS(NTSC/PAL)
Live	Local Display	HDMI: 3840 x 2160, 2560x1440, 1920x1080, 1280x720 VGA: 1920x1080, 1280x1024, 1280x720
	Resolution	4MP(30/25fps), 2MP(30/25fps), 1MP(30/25fps), 960H(30/25fps), 720H(30/25fps) 960x576(30/25fps) per CH

Performance

Record	Compression	H.264
	Record Rate(Analog)	[Analog Camera(NTSC/PAL)] 4M 15/12fps, 2M 30/25fps, 720p 30/25fps, SD 30/25fp per CH
	Recording Bandwidth	Nonne
	Mode	Manual, Schedule (Continuous/Event), Event(Pre/Post), Time lapse (1~30 fps(N), 1~25fps(P))
	Event Trigger	Video Loss, Motion(Level 1~10), Alarm Input(16), Tampering(Level Low,Medium, High)
	Event Action	E-mail, Alarm out, Buzzer
Search & Play	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	4CH(Local Monitor)
Storage	Supported HDD	Up to 6TB
	HDD Slot	SATA 2ea(Max 12TB)
Backup	File backup	BU, SEC, AVI
	Function	Multi channel(Upto 4CH) Play, Date-Time/Title display

Functions

PTZ	Control	Via GUI, Webviewer, Smart Viewer, Wisenet Mobile Viewer, System Controller
Smart phone	Support Model	iOS, Android
	Protocol Support	RTP, RTSP, HTTP
	Control	Live(4ch) : Multi-Profile Support Playback(1Ch)
	Max. Remote Users	Search(1), Live Unicast(10)
Coaxial Control	CVBS(Pelco-C)/AHD	

Interface

HDMI	1EA
VGA	1EA

BNC	4CH In / 1CH Out(Spot Output)
Audio	Out(1EA, RCA, Line)
Ethernet	RJ-45(10/100/1000BASE-T)
Alarm	In 4EA, Out 2EA - Relay Out1(NO/NC/COM) - Relay Out2(NO/COM)
USB	2EA(Front 2)
Serial(Protocols)	RS-485/422 (Samsung-E/Samsung-T/Pelco-D/Pelco-p/Panasonic/ Phillips/ AD/ DIAMOND/ ERNA/ KALATEL/ VCL TP/VICON/ ELMO/GE) * for PTZ
Power inlet	1EA DC Input Jack

System

System Control	Mouse, Remote Controller, Web Viewer, System controller(SPC-7000, SPC-6000)
Language	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Chinese(Traditional)

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 Adaptor(100~250V AC ±10% , 50/60Hz)
Power Consumption	Max. 18W (4T HDD 1ea)

Mechanical

Color / Material	Black / Metal
Dimension (WxHxD)	370.0x 44.0 x 320mm(14.57" x 1.73" x 12.6")
Weight	2.9Kg (6.4lb) (4TB HDD 1ea)

Network

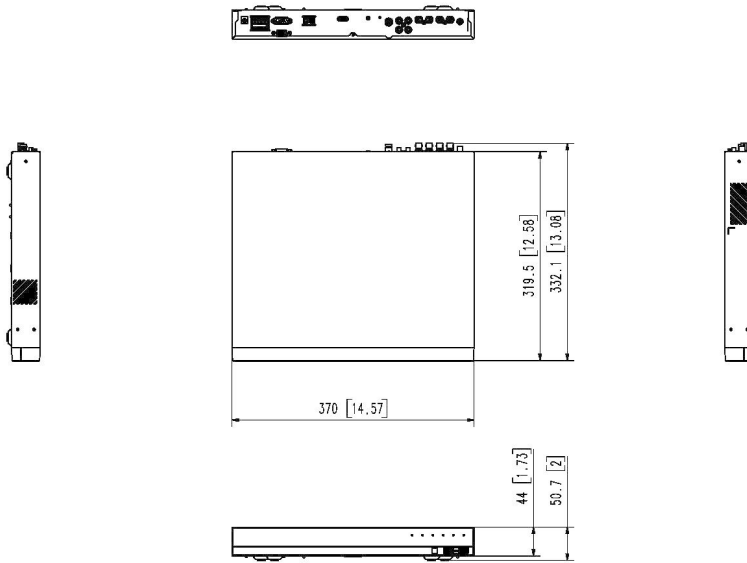|		
Protocol	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP, SNMP	
DDNS	Wisenet DDNS	
Transmission speed	[Analog Camera(NTSC/PAL)] - Main Stream: 4M 15/12fps, 2M 30/25fps, 720p 30/25fps, SD 30/25fp per CH - Sub Stream) WD1/4CIF : 12fps/CH, 2CIF/CIF : 30fps/CH(N), 25fps/CH(P)	
Transmission Bandwidth	Max. 64Mbps	
Audio	Input/Output	4 CH / 1 CH
	Compression	G.711
	Audio Communication	2-Way
Max Remote Users	Search(3), Live Unicast(10), Multicast(20)	
Security	User access Log, Watermark	
Viewer Software	SSM, Webviewer, Smart Viewer, Wisenet mobile	

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CAD

This parts should not contain any substances which are specified in AH60-0033K

NO	PART NAME	CODE NO.	MATERIAL	Q'TY	REMARK
1	FINAL-ASSY-HRD-442	FINAL-ASSY-HRD-442	Check note	1	-

319.5 [12.58]
332.1 [13.06]

370 [14.57]

44 [1.73]
50.7 [2]

Appearance_HRD442
Unit : mm[inches]

UNIT	mm	DESIGN	CHECK	APPROVAL	PART NAME	FINAL-ASSY-HRD-442
		MoonHee Park			MODEL NAME	HRD442
SCALE	1/1	19.04.04				
	Hanwha Techwin				CODE NO.	FINAL-ASSY-HRD-442

A3 CHANGE