

AD-UHD9016IOT-K

16 Channel Penta-brid 4K 1U Digital Video Recorder



System Overview

With the surveillance operators pursuing to HD/UHD which further adds the storage and transmission cost, HDCVI H.265+/H.265 has been released to incredibly decrease the required bitrate while ensuring the video quality in realizing high resolution surveillance such as 4MP/4K. Designed as a collection of intelligent encoding algorithm based on H.265, H.265+ significantly improves encoding efficiency and save bandwidth/storage cost, which fully meet the needs of users facing budget constraints who both require quality and performance.

Besides smart codec, the series supports various advanced functions like IoT and POS functionalities, making the whole system smarter and more convenient which is a perfect choice for mid to large-scale business and projects where both high reliability and flexibility are required.

Functions

Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

8MP Resolution

The XVR supports up to 8MP HD resolution (3840 x 2160) HDCVI camera and IP camera input.

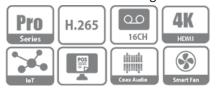
Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

- · H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- · Supports 16/32 channels of IPC access, each channel up to 8MP input; Max 64/128Mbps Incoming Bandwidth
- · IoT & POS functionalities
- · Smart Search and Intelligent Video System



IoT Functionality

HDCVI IoT can achieve multi-dimensional surveillance by integrating sensors with monitoring video, which not only can generate the report for analysis but also prevent risk in advance.

POS Functionality

This function includes POS ticket information overlay and search which can be widely used in retail programs.

Smart Fan Design

The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

Spot Output

It is made for a secondary monitor. This allows the operator to view one special monitor that assigned to selected cameras or video inputs from higher security areas.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the XVR has the ability to detect and analyze moving objects for improved video surveillance. The XVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed.

Face Detection

It is a typical technology being used in a variety of applications for searching or identification of individuals.

Smart Search

This function helps you get more motion detect video during a short time through drawing a region when playback. It is very useful when an emergency occurs.

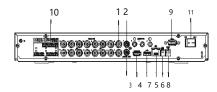


System	Technical Specification		Video Detection and Alarm		
Operating System Embedded LINUX Video and Audio Making Direction, MIX Spring and Diagnosis Play back and Backsurp Pla	System		Trigger Events		
Alam input 15 15 15 15 15 15 15 1			Video Detection		
Mailage Carrier Injunt 1.5 Channel, BMC 1.5 C	Operating System	Embedded LINUX	Alarm innut		
Analog Camera Input 55 (Chamerla, BMC) Playback and Backur HDCVI Camera 44, 6487, 4487, 1000782/30/150/5 2700782/30/150/5 AND Camera 5004, 4406, 3404, 1400782/350/720782/35/07/6 5earch Mode Image: Date: Markey Markey Markey Mode Palys (Accounts to Secretic Mode) CVB Camera PALMITISC 5earch Mode Image: Date: Markey Markey Mode Palys (Accounts to Secretic Mode) PO Camera Input 36416 Chamed, each chamed up to 860P 8acup Mode USB Devise; Revention, Fast play, 900 MPs, 9	Video and Audio		·		
HBCVC Camera 2008/87/5/30/pc SAMP, AMP, 1006/92/5/30, 7209-82/5/30/pc Samp	Analog Camera Input				
ARD Camera SMP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps Search Mode	HDCVI Camera			up	
This can be a common Second Secon	AHD Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	riayback		
	TVI Camera	5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps	Search Mode	· · · · · · · · · · · · · · · · · · ·	
Audio In/Out	CVBS Camera	PAL/NTSC		Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File,	
Audio Audi	IP Camera Input	16+16 Channel, each channel up to 8MP	Playback Function		
New Name N	Audio In/Out	4/1, RCA	De alvor Manda		
Name	Two-way Talk	Reuse audio in/out, RCA	·	USB Device/Network	
Resolution	Recording		Storage	Storage	
Main State	Compression	H.265+/H.265/H.264+/H.264	Internal HDD	2 SATA Ports, up to 10TB capacity for each disk	
Record Rate	Resolution	4K, 6MP, 5MP, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF	eSATA	N/A	
CFI 1.75/30/p3 Substant mas Soli (1.75/30/p3) Substant mas Soli Substant mas So	Record Rate	4MP/3MP(1~15fps); 4M-N/1080P/720P/960H/D1/ CIF(1~25/30fps)	Auxiliary Interface		
Bit Rate 32kbp = 6144kbps Per Channel R5232 NA			USB	2 USB Ports (1 USB 2.0 , 1 USB 3.0)	
Record Mode			RS232	N/A	
Network Motion Detection, Video Loss, Tampering), Alarm, Stop Power Supply 16CH: DC12V/5A Power Consumption Motion Detection, Video Loss, Tampering), Alarm, Stop Power Consumption Motion Detection, Video Loss, Tampering), Alarm, Stop Power Consumption Motion Detection, Precrect 10 * 300 sec Power Consumption Motion Detection, Precrect 10 * 300 se	Bit Rate	32Kbps ~ 6144Kbps Per Channel	RS485	1 Port, for PTZ Control	
Record Interval 1~60 min [default: 60 min], Pre-record: 1~30 sec, Post-record: 10~300 sec Power Supply 16CH: DC12V/5A	Record Mode		Electrical		
Audio Compression AAC(only for the 1st channel), G.711A, G.711U, PCM Audio Sample Rate Audio Bit Rate Audio Bi	Record Interval	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-		16CH: DC12V/5A	
Audio Sample Nate Audio Sample Nate Audio Bit Rate	Audio Compression		· ·	16CH: <20W	
Device Dimensions 1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1") Display Interface 1 HDMI, 1 VGA HDMI;3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×200 VGA: 1920×1080, 1280×1024, 1280×200 When IP extension mode not enabled: Multi-screen Display 16CH: 1/4/8/9/16 Multi-screen Display 16CH: 1/4/8/9/16 Camera title, Time, Video loss, Camera lock, Motion detection, Recording 17B (AFF) Network 11Derface 1 RJ-45 Port (1000M) 1 HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP6E,DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access 128 users 128 users 1 Sunday 1 Sund	Audio Sample Rate	8KHz, 16 bit Per Channel	Construction		
Device with PFH101 Rack Mount Tray Net Weight (without HDD) 16CH: 1.8kg (4.0 lb) 16CH: 1.8kg (4.0 lb) 16CH: 1.8kg (4.0 lb) 1280x720 VGA: 1920x1080, 1280x1024, 1280x720 When IP extension mode not enabled: Multi-screen Display Mel P extension mode enabled: 16CH: 1/4/8/9/16/25 OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Network Interface 1 RJ-45 Port (1000M) HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NPP, DHCP, DNS, IP Filter, PPP6E, DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access Smart Phone IPhone, IPad, Android Interoperability Ovir 1.12, CGI Conformant Device with PFH101 Rack Mount Tray Net Weight (without HDD) 16CH: 1.8kg (4.0 lb) 1	Audio Bit Rate	64Kbps Per Channel	Device Dimensions	1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1")	
Interface 1 HDMI, 1 VGA HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720 When IP extension mode not enabled: Multi-screen Display I6CH: 1/4/8/9/16 When IP extension mode enabled: I6CH: 1/4/8/9/16/25 OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Network Interface I RJ-45 Port (1000M) HTTP, HTTPS, TCP/IP, IPV4/IPV6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, OHCP, DNS, IP Filter, PPP06_DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access Smart Phone I Phone, iPad, Android Interfore I Phone, iPad, Android Interfore I Phone, iPad, Android Network Function Network Function I Phone, iPad, Android ONVIF 16.12, CGI Conformant Network Function I Phone, iPad, Android ONVIF 16.12, CGI Conformant Network Function I Phone, iPad, Android ONVIF 16.12, CGI Conformant Network Function I Phone, iPad, Android CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55024	Display			483mmx281mmx56mm (19.0"x11.1"x2.2")	
Resolution 1280×720 VGA: 1920×1080, 1280×1024, 1280×720 When IP extension mode not enabled:	Interface		Net Weight	16CH: 1.8kg (4.0 lb)	
Multi-screen Display Men IP extension mode not enabled: Desktop installation Multi-screen Display 16CH: 1/4/8/9/16 Environmental Multi-screen Display 16CH: 1/4/8/9/16/25 Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH OSD Camera title, Time, Video loss, Camera lock, Motion detection, Recording Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more Network Function Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more Max. User Access 128 users Smart Phone iPhone, iPad, Android CE-EMIC: EN 61000-3-2, EN 61000-3-2, EN 60950-1/IEC 60950-1 Certifications CE-EMIC: EN 61000-3-2, EN 55032, EN 55032, EN 50130, EN 55024	Resolution	1280×720	Gross Weight		
Multi-screen Display 16CH: 1/4/8/9/16 When IP extension mode enabled: 16CH: 1/4/8/9/16/25 Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Storage Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Third-party Support Operating Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Third-party Support Operating Conditions -20°C ~ +70°C (-4°F ~ +158°F), 0~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +131°F), 10% ~ 90% RH Operating Conditions -10°C ~ +55°C (+14°F ~ +158°F), 0~ 90% RH Operating Conditions -10°C ~ +155°C (+14°F ~ +158°F), 0~ 90% RH Operating Conditions -10°C ~ +155°C (+14°F ~ +158°F), 0~ 90% RH Operating Conditions -10°C ~ +155°C (+14°F ~ +158°F), 0~ 90% RH Operating Conditions -10°C ~ +155°C (+14°F ~ +158°F), 0~ 90% RH Operating Conditions -10°C ~ +155°C (+14°F ~ +158°F), 0~ 90% RH Operating Conditions -10°C ~ +155°C (+158°F), 0~ 90% RH Operating Conditions -10°C ~ +155°C (+158°F), 0~ 90% RH Operat		When IP extension mode not enabled:	Installation		
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Server, P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.) Max. User Access Smart Phone IPhone, iPad, Android Interoperability Certifications FCC: Part 15 Subpart B CE: CE-LVD: EN 60950-1/IEC 60950-1 Certifications CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024	Interface	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP,	Third-party Support	Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung,	
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Smart Phone iPhone, iPad, Android CE: CE-LVD: EN 60950-1/IEC 60950-1 Certifications CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024	Max. User Access			FCC: Part 15 Subpart B	
Interoperability ONVIF 16.12, CGI Conformant 50130, EN 55024			OF 51.10 THE STATE OF		
			CE-EMC: EN 61000-3-2, EN		
	. ,			UL: UL 60950-1	

AD-UHD9016IOT-K

Rear Panel

AD-UHD9016IOT-K



- 1 VIDEO IN
- 7 USB port
- 2 AUDIO IN, RCA Connector
- 8 DC 12V Power Input
- 3 AUDIO OUT, RCA Connector
- 9 VGA port
- 4 HDMI port
- 10 ALARM IN/OUT
- 5 Network port
- 11 Power Switch
- 6 RS485 port