



## ANALOGUE HD

# AX-A3016CH1-S

## 16CH Hybrid Video Recorder

### 4 Signals over 1 Coaxial Cable

HD-over-Coax technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio\*, data and power. Dual-way data transmission allows the HD-over-Coax camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HD-over-Coax technology supports PoC for construction flexibility.

### Long Distance Transmission

HD-over-Coax technology guarantees real-time transmission at long distance without any loss. It supports up to 800m(1080P)/1200m(720P) transmission via coaxial cable, and up to 300m(1080P)/450m(720P) via UTP cable.

### Smart IR

The camera is designed with microcrystalline LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. The unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

### Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with not only HCVRs but also most end users' existing HD/SD DVRs.

## FEATURES

- Support Analog/AHD/CVI/TVI 2.0/TVI 3.0/Network
- Input:16CH BNC
- Support Human Detection
- Support H.265/H.264 Video Compression
- 1 SATA Hard Disk (2.5"/3.5"SATA, Up to 8TB)
- Support a variety of Language



## ANALOGUE HD SERIES

### TECHNICAL SPECIFICATION

#### SYSTEM

	AX-A3016CH1-S
Main Processor	MC6650
Operating System	Embedded LINUX

#### VIDEO

Input	16CH BNC
Electronic Shutter	Analog/AHD/CVI/TVI 2.0/TVI 3.0/Network
Output	1HD,1 VGA, 1 CVBS
Input	Normal Mode: Analog: 16*(TVI/AHD: 5M@12fps; AHD/TVI/CVI: 4M@15fps;AHD/TVI/CVI: 1080P/720P; Analog: 960H) Analog+Network: 2*Analog(5MP)+14*network(MAX 8MP),4*Analog(5MP)+12*network(MAX 8MP),6*Analog(5MP)+10*network(MAX 8MP),8*Analog(5MP)+8*network(MAX 8MP),10*Analog(5MP)+6*network(MAX 8MP),12*Analog(5MP)+4*network(MAX 8MP),14*Analog(5MP)+2*network(MAX 8MP) Network: 16*8MP/5MP/4MP/3MP/1080P/960P/720P(Total incoming bandwidth ≤80M)

#### AUDIO

Input	2 Channel, RCA, support AOC
Two-way Audio	NO
Output	1 Channel, RCA

#### ALARM

Sensor Input	NO
Output	NO
Motion Detection	16 Channel
Trigger Events	Recording, Email, Screen tips, Buzzer, Push notifications(motion detection)
Email Alarm	Send Image to The Designated E-mail

#### AI FUNCTION

Human Detection	YES
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#### PTZ

Interface	RS485
Protocol	Pelco-D, Pelco-P
Baud Rate	110~921600
Address	0~255

#### Display

VGA	Resolution:1080 × 1920P, 768 × 720,1024 × 1280 , 1024 × 1280
HD Output	Resolution:1080 × 1920P, 768 × 720,1024 × 1280 , 1024 × 1280
Display Split	1/4/8/9/16
Privacy Masking	3 Rectangular Zones (Each camera)
OSD	Camera title, Time, Video loss, Alarm, Motion detection, Recording

## ANALOGUE HD SERIES

### TECHNICAL SPECIFICATION

#### RECORDING

Video Compression	H.265/H.265+/H.264/H.264+
Audio Compression	G.711U/G.711A
Video Compression	5MP_Lite(1280×1952),4MP_Lite(1280×1440),1080N(960×1080),720P(1280×720),960H(960×480)
Audio Compression	Lowest/Low/Ordinary/Good/Better/Best
Record Rate	Analog: PAL: 5MP_Lite(1280×1952 16*6fps),4MP_Lite(1280×1440 16*8fps),1080N(960×1080 16*15fps),720P(1280×720 16*15fps),960H(960×480 16*25fps) NTSC:5MP_Lite(1280×1952 16*6fps),4MP_Lite(1280×1440 16*8fps),1080N(960×1080 16*15fps),720P(1280×720 16*15fps),960H(960×480 16*30fps) Pure IP(H.265): PAL :8MP@9x25fps, 5MP@12x25fps,4MP@16x25fps, 3MP@16x25fps, 1080P@16x25fps, 960P@16x25fps, 720P@16x25fps, D1@16x25fps NTSC:8MP@9x30fp, 5MP@12x30fps,4MP@16x30fps, 3MP@16x30fps, 1080P@16x30fps, 960P@16x30fps, 720P@16x30fps, D1@16x30fps
Audio Compression	Manual\Timer\Motion Detection

#### PLAYBACK & BACKUP

Decode Capability	4*1080P@30fps
Remote Playback	4 Channel / 1Channel
Search Mode	ALL, Channel, Manual, Time, Date, Motion Detection
Search Mode	Pure Analog: 16CH 5M_LITE@6fps, 15CH 4M_LITE@8fps,16CH 1080N@15fps, 16CH 720P@15fps,16CH 960H@30fps Mix Mode: 1CH 4K@30fps,1CH 5M@30fps, 2CH 4M@30fps,2CH 3M@30fps, 4CH 1080P@30fps, 4CH 720P@30fps,4CH 5M_LITE@6fps, 4CH 4M_LITE@8fps,4CH 1080N@15fps, 4CH 720P@15fps,4CH 960H@30fps Pure IPC:1CH 4K@30fps,1CH 5M@30fps, 2CH 4M@30fps,2CH 3M@30fps, 4CH 1080P@30fps,4CH 720P@30fps,4CH D1@30fps
Playback Functions	Play, Pause, Stop, Fast play, Slow play, Rewind, Single frame forward/back, Digital Zoom, Full screen
Smart Phone Playback	4 Channel
Backup Mode	USB Device(with format FAT 32 )/Network/FTP

#### NETWORK

Interface	1 RJ45 10M/100M Adaptive Ethernet Interface
DDNS	Dyndns, changeip, no-ip, Oray, A-PRESS, MYQSEE, SKDDNS, SMART-EYES, ZEBEYE,HDPROVN
Network Functions	TCP/IP, HTTP, UPnP, DNS, NTP, SMTP,DHCP, FTP, DDNS, RTP, RTSP, RTCP
Web Browser	Edge,IE11-8, Google Chrome , Firefox ,Safari
CMS Software	Support Windows 7/ Windows 8/Windows 10/Windows 11/MAC OS
Extra Stream	CIF/D1(1~30fps)
Smart Phone	iPhone, ipad, Android ,Android pad

#### HARD DISK DRIVER

Interface Type	1 SATA Interface
Capacity	1 SATA Hard Disk (2.5"/3.5" SATA, Up to 8TB)

#### GENERAL

Language	Simplified Chinese,Traditional Chinese, English, Polish, Czech, Russian, Thai, Hebrew, Arabic, Bulgarian, Japanese, German, French, Portuguese, Turcic, Spanish, Italian, Hungarian, Romanian, korean, Dutch, Greek, Vietnamese,
UTC Control	YES
USB Interface	2 USB 2.0 Interfaces
Power consumption	DC 12V/2A ≤20W (Without Hard Disk)
Working Environment	10~55°C /10~90%
Dimension (W×D×H)	260*215*43(mm)
Weight	2kg (Without HDD)