

# DH-KIT/XVR1B04-I-SSD(512G)/2-B1A21N-U-0360B/2-T1A21N-U-0360B/Balun 1080P HDCVI Balun SSD KIT: 4CH S-XVR with 4×1080P HDCVI Cameras



### **Series Overview**

HDCVI KIT is an all-in-one security package with all necessary products for one solution. Not only will it simplify the buying process, but also offer top-tier security and an integrated solution. Based on it, Dahua launched HDCVI SSD KIT with surveillance-grade SSD and brand new eco-friendly package, contributing to environmental protection and a low-carbon life.

#### **Functions**

## **Balun Transmitter**

Balun KIT comes with the balun inside. It is used for data transmission between analog camera and DVR. compared with the traditional coaxial cable transmission, the wiring cost of balun is more cost-effective.

## **Internal SSD**

Unlike the traditional KIT, SSD KIT comes with the SSD preinstalled in the device. It is more energy efficient, and has stronger vibration resistance and better heat dissipation. SSD KIT also saves you time on selecting the type of hard disk and installing it, greatly increasing your efficiency.

# **Long Service Time**

Designed with a 30-year service life, the SSD uses high-quality 3D TLC NAND chips and optimized algorithms. What's more, SSD MTBF is up to 1,500,000 hours.

## 24/7 Seamless and Reliable Operations

Dahua released surveillance SSD designed for CCTV systems, featuring improved SSD read/write performance with Dahua algorithms. SSD underwent strict tests with the XVR and NVR to ensure system stability.

- · Comes with an internal 512GB SSD, and can record videos for about 18 days.
- · 2 MP CMOS, 30fps@1080p
- · Max IR 20m, ICR, Smart IR
- · 3.6mm fixed lens
- · Quick-to-install
- · IP67(Bullet), 12 VDC±30%
- · Balun transmitter
- · H.265+/H.265 dual-stream video compression.
- · Supports Full channel AI-Coding
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- · Max 5 channels IP camera inputs, each channel up to 2MP; Max20 Mbps incoming bandwidth.
- · Up to 4 channels video stream (analog channel) SMD Plus.

















Compared with HDD, SSD can save energy by about 78.6%, reducing customer use costs and save resources for the planet. Under 24/7 operating environment, SSD can save at least 38kWh of power per year.

# **Eco-friendly**

SSD features less noise and low weight. What's more, improved packaging that is smaller, lighter, and built of Dahua laminated material, which is biodegradable and 99% recyclable.

## **SMD Plus**

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

### AI Coding-ABR

Compared with H.265, AI coding-ABR can save 50% on storage costs, also save bit rate for complex scenes, which can prioritize image quality in dynamic scenes.

#### Easy Installation

HDCVI eyeball comes with a quick-to-install pedestal, which makes it easier to install than conventional eyeballs and reduces cost on time and labor.

Technical Specification	on	
System		
Main Processor	Industrial-grade processor	
Operating System	Embedded Linux	
Operating Interface	Web; Local GUI	
SMD Plus		
SMD Plus by Recorder	4 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change	
Audio and Video		
Analog Camera Input	4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect	
Camera Input	1. CVI: 1080p@25/30 fps; 720p@50/60 fps; 720p@25/30 fps. 2. TVI: 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 1080p@25/30 fps; 720p@25/30 fps.	
IP Camera Input	Up to 5 channels of IPC access 1 IP channel by default + 4 channels (analog channels are converted to IP channels) Incoming bandwidth: 20 Mbps, recording bandwidth: 20 Mbps and outgoing bandwidth: 20 Mbps *After IP extension is enabled, the AI Function (SMD) will be disabled.	
Encoding Capacity	Main stream: 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps) Sub stream: CIF@(1 fps-15 fps)	
Dual-stream	Yes	
Video Bit Rate	32 kbps-4096 kbps	
Audio Sampling	8 kHz, 16 bit	
Audio Bit Rate	64 kbps	
Video Output	1 HDMI, 1 VGA HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Multi-screen Display	When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6	
Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF	
Compression Standar	rd	
Video Compression	Al Coding; Smart H.265+; H.265; Smart H.264+; H.264	
Audio Compression	G.711a; G.711u; PCM	
Network		
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)	
Mobile Phone Access	iOS; Android	
Interoperability	ONVIF 22.12 (Profile T; Profile S; Profile G); CGI; SDK	
Browser	Chrome; IE; Safari; Edge; Firefox	
Recording Playback		
Record Mode	General; alarm; motion detection	
Recording Playback	1/4	
Backup Method	USB device and network	

Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback
Alarm	
General Alarm	Motion detection; HDCVI alarm; camera external alarm; network alarm; PIR alarm
Anomaly Alarm	Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline
Intelligent Alarm	SMD Plus
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email
Ports	
Audio Input	1-channel RCA 4-channel BNC (Coaxial Audio)
Audio Output	1-channel RCA
Two-way Talk	Yes (share the same audio input with the first channel)
HDD Interface	1 SSD: 512GB(replaceable with 256 GB or 1 TB) Stores for 18 days under default settings
USB	2 (2 rear USB 2.0 ports)
HDMI	1
VGA	1
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)
General	
Power Supply	12 VDC, 1.5 A
Power Consumption	<7 W (with SSD)
Net Weight	0.55 kg (1.19 lb)
Gross Weight	0.97 kg (2.11 lb)
Product Dimensions	197.0 mm × 203.1 mm × 41.5 mm (7.76" × 8.00" × 1.63") (W × D × H)
Packaging Dimensions	332.0 mm × 64.0 mm × 240.0 mm (13.07" × 2.52" × 9.45") (W × D × H)
Operating Temperature	-10 °C to +45 °C (+14 °F to +113 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	10%–90% (RH), non-condensing
Installation	Desktop
Certifications	CE-LVD: IEC 62368-1:2014 CE-EMC: EN IEC 61000-3-2:2019, EN 61000-3- 3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015, EN 50130-4:2011+A1:2014

Technical Specification					
Camera					
Model		B1A21N-U-0360B			
Image Sensor	r	2 MP CMOS			
Max. Resolut	ion	1920 (H) × 10	80 (V)		
Scanning Syst	tem	Progressive			
Electronic Sh	utter Speed	PAL: 1/25 s-1 NTSC: 1/30 s-			
Min. Illumina	ition		0 (Color, 30 IRE 2.0 (B/W, 30 IRE ator on)		
S/N Ratio		>65 dB			
Illumination I	Distance	30 m (98.43 f	t)		
Illuminator O	n/Off Control	Auto/Manual			
Illuminator N	lumber	2 (IR light)			
Angle Adjust	ment	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		3.6 mm			
Max. Apertu	re	F2.0			
Field of View		3.6 mm: H: 80°; V: 43°; D: 94°			
Iris Control		Fixed			
Close Focus I	Distance	3.6 mm: 0.8 m (2.62 ft)			
DORI	Lens	Detect	Observe	Recognize	Identify
Distance	3.6 mm	55.0 m (180.45 ft)	22.0 m (72.18 ft)	11.0 m (36.09 ft)	5.5 m (18.04 ft)

Video Frame Rate	CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@35 fps NTSC: 1080p@30 fps CVB: PAL: 960H NTSC: 960H
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; DWDR
WDR	DWDR
White Balance	Auto
Gain Control	Auto
Noise Reduction	2D NR

Illumination Mode	Smart IR
Certification	
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Port	
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power	
Power Supply	12 VDC ± 30%
Power Consumption	Max 2.8 W (12 VDC, IR on)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	<95% (RH), non-condensing
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	<95% (RH), non-condensing
Protection	IP67
Anti-corrosion Level	Basic Protection
Structure	
Casing Material	Plastic
Product Dimensions	146.1mm × 70.0 mm × 69.8mm (5.75" × 2.76" × 2.75")
Net Weight	0.15 kg (0.33 lb)
Gross Weight	0.20 kg (0.44 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

Technical Specification						
Camera						
Model		T1A21N-U-0360B				
Image Sensor	r	2 MP CMOS				
Max. Resolut	ion	1920 (H) × 10	980 (V)			
Scanning Sys	tem	Progressive				
Electronic Sh	utter Speed	PAL: 1/25 s-1 NTSC: 1/30 s-				
Min. Illumina	ition		0 (Color, 30 IRE 2.0 (B/W, 30 IRE ator on)			
S/N Ratio		>65 dB				
Illumination I	Distance	25 m (82.02 f	t)			
Illuminator O	n/Off Control	Auto/Manual	Auto/Manual			
Illuminator N	lumber	1 (IR light)				
Angle Adjust	ment	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–	360°			
Lens						
Lens Type		Fixed-focal				
Lens Mount		M12				
Focal Length		3.6 mm				
Max. Apertu	re	F2.0				
Field of View		3.6 mm: H: 80°; V: 43°; D: 94°				
Iris Control		Fixed				
Close Focus [	Distance	3.6 mm: 0.8 m (2.62 ft)				
DORI	Lens	Detect	Observe	Recognize	Identify	
Distance	3.6 mm	55.0 m (180.45 ft)	22.0 m (72.18 ft)	11.0 m (36.09 ft)	5.5 m (18.04 ft)	

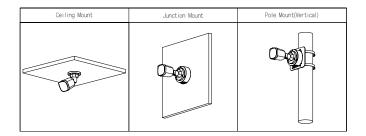
\/	i	d	Р	$\mathcal{C}$

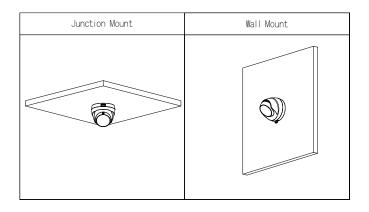
Video Frame Rate	CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps CVB: PAL: 960H NTSC: 960H
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; DWDR
WDR	DWDR
White Balance	Auto
Gain Control	Auto
Noise Reduction	2D NR

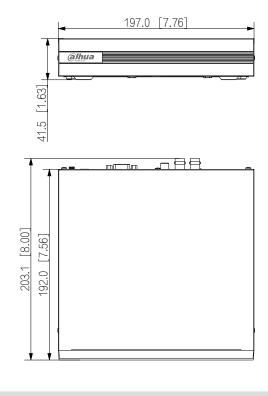
Illumination Mode	Smart IR
Certification	
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Port	
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power	
Power Supply	12 VDC ± 30%
Power Consumption	Max 2.3 W (12 VDC, IR on)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	<95% (RH), non-condensing
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	<95% (RH), non-condensing
Anti-corrosion Level	Basic Protection
Structure	
Casing Material	Plastic
Product Dimensions	Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")
Net Weight	0.11 kg (0.24 lb)
Gross Weight	0.12 kg (0.26 lb)
Installation	Wall mount; ceiling mount

Ordering Information				
Туре	Model	Description		
Balun Series	DH-KIT/XVR1B04- I-SSD(512G)/2- B1A21N-U-0360B/2- T1A21N-U-0360B/ Balun	1080P HDCVI Balun SSD KIT 4CH S-XVR with 4×1080P HDCVI Cameras		

# Installation

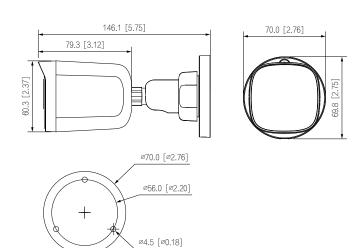


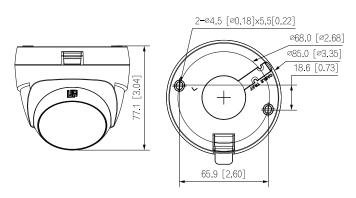


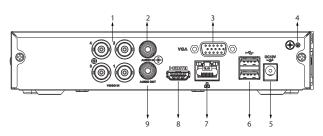


## **Panels**

# Dimensions (mm[inch])







- 1 VIDEO IN
- 3 VGA Port
- 5 Power Input
- 7 Network Port
- 9 AUDIO OUT, RCA Connector
- 2 AUDIO IN, RCA Connector
- 4 Ground
- 6 USB Ports
- 8 HDMI Port