

4-channel HDCVI Recorder Kit

Four HDCVI IR Dome Cameras and One Penta-brid 1080p HDCVI DVR

HDCVI



System Overview

The Dahua Recorder kits provide all the components to quickly install, configure, and employ a complete video surveillance solution. The HDCVI cameras offer the clarity of Full HD 1080p video, and the HDCVI DVR offers built-in motion detection algorithms, alarm triggers, and customized recording modes. The kit features Dahua's HDCVI technology that leverages an existing coaxial infrastructure, saving time and costs from running networking and power cables.

Functions

Long Distance Transmission

HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI cameras provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

Simplicity

HDCVI technology seamlessly integrates traditional analog surveillance systems with upgraded, high-quality HD video, making it the best choice to protect security investments. The plug and play approach enables full HD video surveillance without the hassles of configuring a network.

Flexible Recording

The HDCVI DVR offers a variety of configurable recording options and schedules that saves HDD space and active monitoring time. The HDCVI DVR monitors incoming video and can be programmed to record if motion is detected or if an alarm is triggered. The HDCVI DVR can also be programmed to record on a schedule or at different intervals. The recording options and schedules can be set for each individual camera or copied to all cameras.

HDCVI Camera

- 1080p at 30 fps Maximum Resolution
- 2.8 mm Fixed Lens
- Maximum IR Length 30 m (98 ft) with Smart IR
- IP67 Environmental Protection and IK10 Vandal Resistance

HDCVI DVR

- Embedded Processor
- Offers 720p (real-time) and 1080p (15 fps) Recording
- Four (4) HDCVI/AHD/TVI/CVBS Channels
- 24 Mbps Incoming Bandwidth

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30 m (98 ft).

Camera Protection

The HDCVI camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Environmental

The HDCVI cameras operate in extreme temperature environments, rated for use in temperatures from -40° C to +60° C (-40° F to +140° F), allowing the camera to operate in the harshest environments.

The HDCVI DVR features an operating temperature of-10° C to +55° C (+14 °F to +131 °F).

Technical Specification - HDCVI Cameras Camera 1/2.9-in. CMOS Image Sensor 1920(H) x 1280(V), 2 MP **Effective Pixels** Scanning System Progressive Electronic Shutter Speed 1/30 s to 1/100000 s Color: 0.02 Lux at F2.0 Minimum Illumination 0 Lux (with IR on) More than 65 dB S/N Ratio Up to 30 m (98 ft) IR Distance IR On/Off Control Auto, Manual IR LEDs 12 Lens Lens Type Fixed Lens / Fixed Iris Mount Type Board-in 2.8 mm Focal Length Max Aperture F2.0 106° Angle of View Close Focus Distance 500 mm (19.7 in.) Pan / Tilt / Rotation Pan: 0° to 355° Range Tilt: 0° to 65° Rotation: 0° to 355° Video Resolution 1080p (1920 x 1080) 1080p at 30 fps Frame Rate 720p at 30/60 fps One (1) BNC HDCVI High-definition Channel or Video Output One (1) BNC CVBS, AHD or TVI Channel, switchable 720p: 800 m (2624.67 ft) RG-59/U Coax 1080p: 500 m (1640.42 ft) 720p: 1200 m (3937.01 ft) Video Transmission¹ RG-6/U Coax 1080p: 800 m (2624.67 ft) CAT 6 UTP 720p: 450 m (1476.38 ft) (balun required) 1080p: 300 m (984.25 ft) Day/Night Auto (ICR), Manual OSD Menu Multi-language **BLC Mode** BLC, HLC, DWDR WDR Digital WDR Gain Control AGC Noise Reduction 2D White Balance Auto, Manual Smart IR Auto, Manual

Certifications

Gross Weight

Certifications				
Safety	EN55032, EN55024, EN50130-4 UL60950-1+CAN/CSA C22.2 No.60950-1			
Electromagnetic Compatibility (EMC)	FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014			
Electrical				
Power Supply	12 VDC ±25%			
Power Consumption	Max 2.6 W (12 VDC with IR on)			
Environmental				
Operating Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH Initiate startup above -40° C (-40° F)			
Storage Conditions	-40° C to +60° C (-40° F to +140° F), Less than 95% RH			
Ingress Protection	IP67			
Vandal Resistance	IK10			
Construction				
Casing	Aluminium			
Dimensions	ø109.90 mm × 81.0 mm (ø4.33 in. x 3.19 in.)			
Net Weight	0.31 kg (0.68 lb)			

0.41 kg (0.90 lb)

^{1.} Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

Technical Specification	- HDCVI DVR	Recording	
System		Compression	Smart H.264+, H.264
	Fach added Danesser	Resolution	1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF
Main Processor	Embedded Processor	Record Rate	
Operating System	Embedded LINUX	Main Stream	1080p at 1 to 15 fps or 1080N, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 1 to 30 f
Display		Sub Stream	D1, CIF, QCIF at 1 to 30 fps
Interface	One (1) HDMI One (1) VGA	Bit Rate	1 Kbps to 6144 Kbps per channel
Resolution	1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768	Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video Detection: Motion Detection, Video
Multi-screen Display	1/4/6		Loss, Tampering), Alarm, Stop
On-screen Display Options	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, and Recording	Record Interval	1 to 60 minutes (default: 60 minutes) Pre-record: 1 s to 30 s Post-record: 10 s to 300 s
Video Detection and Al	arm	Network	
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer, and Screen Tips	Interface	One (1) RJ-45 Port (100 M)
	Motion Detection, MD Zones: 396 (22 × 18),	errade	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP,
Video Detection	Video Loss, Tampering, and Diagnosis Eight (8)	Network Function	DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP cameras, DVRs, NVS)
Alarm Input Relay Output	Three (3)	Max. User Access	128 users
	Tillee (3)	Mobile Operating System	IOS and Android
Playback and Backup		Interoperability	ONVIF 2.4.1, CGI Conformant
Playback	1/4	Electrical	
Search Mode	Time / Date, Alarm, Motion Detection, and Exact Search (accurate to 1 second)	Power Supply	12 VDC, 2 A
	Play, Pause, Stop, Rewind, Fast Play, Slow Play,	Power Consumption	< 10 W, without HDD
Playback Function	Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle,	Environmental	
	ackup Selection, and Digital Zoom	Operating Conditions	-10° C to +55° C (+14 °F to +131 °F), 86 to 106 kpa
Backup Mode	USB Device, Network	Storage Conditions	0° C to +50° C (+32 °F to +122 °F), 0 to 90% RH
Storage		Construction	
Internal HDD	One (1) SATA Port Unit ships with a pre-installed 2 TB HDD	Dimensions	Mini 1U, 325.0 mm × 255.10 mm × 55.0 mm (12.80 in. x 10.0 in. x 2.20 in.)
HDD Mode	Single	Net Weight	1.50 kg (3.30 lbs), without HDD
	58.6	Gross Weight	2.0 kg (4.40 lbs)
Auxiliary Interface		Installation	Desktop installation
USB	Two (2) USB 2.0 Ports	Certifications	
RS485	One (1) Port, for PTZ Control	Safety	Conforms to UL Standard
Third-party Support		Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4 – 2014 ICES 003
Third-party Support Canon,	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek,	Intelligence (availabl	
	and others	IVS triggers an alarm and take	es a defined action for the following events:
Audio and Video			Tampering with the camera.
Analog Inputs	Four (4) Channels	Standard Features	 Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera.
IP Inputs	4 + 2 Channels	Premium Features	
Resolution	Analog: 1080p	Motion	An object moves through any part of the scene.
NESOIULIOII	IP: Up to 5 MP per Channel	Tripwire	A target crosses a user-defined line.
Audio Connections	Inputs: Four (4) Channels Output: One (1) Channel	Intrusion	A target enters or exits a defined perimeter.
Two-way Talk	Reuse Audio In (channel 1)/ out, RCA	Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.
		Abandoned/Missing	A target leaves an object in designated area, or a target

Object

removes an object from the same designated area.

Kit | BC541E42

Ordering Information				
Туре	Part Number Description			
4-channel HDCVI Recorder Kit	BC541E42	• 4 x 2 MP HDCVI IR Dome Cameras • 1 x 1080p HDCVI DVR, 2 TB		
Camera Accessories, Optional	PFA136	Junction box (For use alone)		
	PFB203W	Wall mount (For use alone or with PFA152 pole mount)		
	PFA152	Pole mount (For use with PFB203W wall mount)		
	PFM820	UTC Controller		

Accessories

Optional:







Wall mount



Pole mount

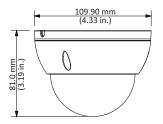
PFA136 Junction box

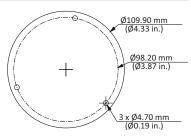


PFM820 **UTC** Controller

Junction Mount	Pole Mount
PFA136	PFB203W + PFA152
Wall Mount	
PFB203W	

Dimensions (mm/in.) - HDCVI Camera





Dimensions (mm/in.) - HDCVI DVR

