

Tri-brid 4K DVR

4/8/16-channel 4K 1U Digital Video Recorder



- Embedded Processor
- Smart H.264+/H.264 Dual-stream Video Compression
- Supports HDCVI/CVBS Video Inputs
- 4, 8, or 16 HDCVI/CVBS Channels
- 4 + 2, 8 + 4, or 16 + 8 IP Channels, up to 4K (8 MP) per Channel
- Maximum 24/48/96 Incoming Bandwidth
- HDMI Output up to 4K Resolution
- Built-in Smart Search
- Intelligent Video System (one channel)













System Overview

Dahua, a global leader in security systems, introduces HCVR technology - the perfect affordable solution to upgrade existing video surveillance systems while leveraging existing networks, cabling, and cameras. HCVR technology utilizes tri-brid access technology to seamlessly record video from HDCVI, CVBS, and IP sources simultaneously.

The HCVR offers advanced options such as built-in motion detection algorithms, alarm triggers, and customized recording modes. HCVR technology is the ideal solution for actively monitoring and recording video feeds in wide range of applications including public venues, retail stores, transportation hubs and access ways, personal property and homes, and educational institutions.

Camera Connections

Record and monitor video from analog/HDCVI camera inputs and IP camera inputs simultaneously. The C52 series supports a maximum of 24 channels, with up to 16 channels of HDCVI/CVBS inputs and up to an additional 8 channels of IP inputs. The flexibility of the HCVR allows all 24 channels to record input from IP cameras, or from a combination of input from analog and IP sources (not to exceed the maximum number of analog cameras allowed per HCVR). In addition, the HCVR supports a maximum of 16 local live-view channels and 16 playback channels.

Flexible Recording

The HCVR offers a variety of configurable recording options and schedules that saves HDD space and active monitoring time. The HCVR monitors incoming video and can be programmed to record if motion is detected. The HCVR 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.

Functions

Spot Output

Spot Output allows an operator to view a secondary monitor assigned to selected cameras or video inputs in a high-security area.

Smart H.264+

The Smart H.264+ video compression standard can reduce bit rate and storage requirements by up to 70% without having to invest in new cameras.

HDCVI/CVBS Auto-detect

The HCVR automatically recognizes the incoming signals of each attached camera without any setup, making installation easy and operation convenient.

8 MP Resolution

The HCVR supports 8 MP (3480×2160) resolution on HDCVI channel one and all IP camera inputs for recording and live viewing. Remaining analog channels support up to 4 MP each.

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A device with IVS quickly and accurately responds to monitoring events in a specific area. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Smart Search

Smart Search allows an operator to specify a region in the playback video to search for a motion detection event, saving time and manpower.





Technical Specification				Recording			
System				Compression	Smart H.264+/H.264		
Main Processor	Embedded	Processor		Resolution	4K (8 MP), 4 MP, 1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF		
Operating System	Embedded	LINUX		Record Rate, Analog Channels			
Display				Main Stream	·		
Interface	One (1) HD	MI (up to 3840 x 216 A	50)	Cult Change	1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps D1, CIF, QCIF at 30 fps		
Spot Output (Video Matrix)	HDMI or VO	GA Interface, configu	rable	Sub Stream Bit Rate	1 Kbps to 12288 Kbps per Channel		
Resolution	3840 x 216 1024 x 768) x 1024, 1280 x 720,	Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video detection: Motion Detection, Video		
Marki anna a Diaglar	C52A1	N C52A2N	C52A3N		Loss, Tampering), Alarm, and Stop		
Multi-screen Display	1/4/6	1/4/8/9/16	5 1/4/8/9/16/25	Record Interval	1 to 60 minutes (default: 60 minutes) Record Interval Pre-record: 1 s to 30 s		
On-screen Display Options		le, Time, Video Loss, ection, and Recordi	,	Record lifter var	Post-record: 10 s to 300 s		
Video Detection and Alarm				Network	Network		
Triangue Sarata	Recording,	PTZ, Tour, Alarm Ou	t, Video Push, Email,	Interface	1 RJ-45 Port (1000 Mbps)		
Trigger Events Video Detection	Motion Det	not, Buzzer, and Scre ection, MD Zones: 3 ering, and Diagnosis	96 (22 × 18), Video	Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE,DDNS, FTP, Alarm Server, P2P,IP Search (Support Dahua IP camera, DVR, NVS)		
Playback and Backup				Max. User Access	128 users		
Playback	C52A1	N C52A2N	C52A3N	Mobile Operating System	IOS and Android		
	1/4	1/4/9	1/4/9/16	Interoperability	ONVIF 2.4.1, CGI Conformant		
Search Mode	Time / Da	ite, Alarm, Motion D Search (accurate to		Electrical	C52A1N	C52A3N	
Playback Function			play, Slow Play, Next		12 VDC, 4 A	12 VDC, 5 A	
			ra, Previous Camera, ackup Selection, and m	Power Consumption	< 15 W, without HDI		
Backup Mode		USB Device Network	2	Environmental			
Storago		Network		Operating Conditions	-10° C to +55° C (+14° F to +131° F), 0 to 90% RH		
Storage				Storage Conditions	-20° C to +70° C (-4° F to +158° F), 0 to 90% RH		
Internal HDD	2 SATA Por	ts, up to 8 TB capaci	ty for each disk	Construction			
HDD Mode	Single			Dimensions			
Auxiliary Interface	1 1150 2 0 2	nd One (1) USB 3.0		NVR	1U, 375.0 mm × 287.0 mm × 53.0 mm (14.80 in. x 11.30 in. x 2.10 in.)		
		· · ·		NVR with PFH101	482.60 mm x 287.0 mm x 53.0 mm		
RS485	One (1) Por	t, for PTZ Control		Rack Mount Tray Net Weight	(19.0 in. x 11.30 in. x 2.10 in.) 2.35 kg (5.20 lbs), without HDD		
Third-party Support				Gross Weight	3.20 kg (7.05 lb)		
		cont Vision, AXIS, Bo Plus, Dynacolor, Hon		Installation	Desktop installation		
Third-party Support		sung, Sanyo, Sony, V		Certifications			
Audio and Video				Safety	UL 60950-1 CAN/CSA C22.2 No. 60950-1-07		
Camera Inputs	Model	Analog Inputs	IP Inputs		FCC Part 15 Subpart B ICES 003 Issue 6 EN 55032: 2012+AC:2013 (Class B) EN 50130-4: 2011 EN 61000-3-2 : 2014 EN 61000-3-3 : 2013		
	C52A1N	4	4 + 2	Electromagnetic Compatibility (EMC)			
	C52A2N C52A3N	8 16	8 + 4 16 + 8				
Posolution	CJZMJN	Up to 4K (8 MP),	Up to 4K (8 MP)	Immunity	EN 55024 : 2010		
Resolution		first channel	per channel				

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Reuse Audio In/Out, RCA

Audio In/Out

Two-way Talk

Intelligence

IVS triggers an alarm and takes a defined action for the following events: • Tampering with the camera. · Error writing to an onboard Micro SD card. Standard Features • Error sending or receiving data over the network. • Unauthorized access to the camera. **Premium Features** Motion An object moves through any part of the scene. A target crosses a user-defined line. Tripwire Intrusion A target enters or exits a defined perimeter. A person or object moves the camera to change the scene Scene Change or covers the camera to obscure the scene. Abandoned/Missing A target leaves an object in designated area, or a target removes an object from the same designated area. Object

Ordering Information					
Туре	Part Number	Description			
	C52A1N	4 Analog/HDCVI Inputs, 4 + 2 IP Inputs, 4K (8 MP) 1U Digital Video Recorder			
HCVR	C52A2N	8 Analog/HDCVI Inputs, 8 + 4 IP Inputs, 4K (8 MP) 1U Digital Video Recorder			
	C52A3N	16 Analog/HDCVI Inputs, 16 + 8 IP Inputs, 4K (8 MP) 1U Digital Video Recorder			
Accessory, optional	PFH101	Rack Mount Tray 482.60 mm x 281.20 mm x 43.70 mm (19.0 in. x 11.07 in. x 1.72 in.)			

Dimensions (mm)









