

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 mangower.



Audio In/Out

Two-way Talk

Technical Specification				Recording				
System				Compression	Smart H.264+/H.264			
Main Processor	Embedded	d Processor		Resolution	4K (8 MP), 4 MP, 1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF			
Operating System	Embedded	LINUX		Record Rate, Analog Channels				
One (1) HDMI (up to 3840 x 2160)				Main Stream	First Channel: 4K (8 MP) at 15 fps or 4 MP at 15 fps Other Channels: 4 MP at 15 fps or 1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps			
Interface	One (1) V	βA		Sub Stream	D1, CIF, QCIF at 30 fps			
Spot Output (Video Matrix)	HDMI or V	GA Interface, config	gurable	Bit Rate	1 Kbps to 12288 Kbps per Channel			
Resolution	3840 x 216 1024 x 768		80 x 1024, 1280 x 720,	Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video detection: Motion Detection, Video			
Multi-screen Display	C52A1	N C52A2N	N C52A3N		Loss, Tampering), Alarm, and Stop			
	1/4/6	1/4/8/9/	16 1/4/8/9/16/25	Record Interval	1 to 60 minutes (default: 60 minutes) Record Interval Pre-record: 1 s to 30 s Post-record: 10 s to 300 s			
On-screen Display Options		tle, Time, Video Los etection, and Record		need a mer var				
Video Detection and A	Alarm			Network				
Trigger Events	-		out, Video Push, Email,	Interface	1 RJ-45 Port (1000 Mbps)			
Video Detection	Motion De	shot, Buzzer, and Sc etection, MD Zones: pering, and Diagnos	396 (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	N 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 / D	ate, Alarm, Motion Search (accurate to	Detection, and Exact o 1 second)	Electrical	CERAIN CERAIN CERAIN			
			st play, Slow Play, Next		C52A1N	C52A2N DC, 4 A	C52A3N 12 VDC, 5 A	
Playback Function			era, Previous Camera, Backup Selection, and	Power Consumption	< 15 W, without HDD			
Backup Mode		USB Devi Networ	ce	Environmental				
Storage		Network	N.	Operating Conditions	-10° C to +55° C (+14° F to +131° F), 0 to 90% RH			
				Storage Conditions	-20° C to +70° C (-4° F to +158° F), 0 to 90% RH			
Internal HDD	2 SATA Po	rts, up to 8 TB capad	city for each disk	Construction				
HDD Mode Single				Dimensions				
Auxiliary Interface	1 USB 2 0	and 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.)			
RS485		ort, for PTZ Control		NVR with PFH101 Rack Mount Tray	482.60 mm x 287.0 mm x 53.0 mm (19.0 in. x 11.30 in. x 2.10 in.)			
Third-party Support				Net Weight	2.35 kg (5.20 lbs), without HDD			
			Gross Weight	3.20 kg (7.05 lb)				
Third-party Support		econt Vision, AXIS, E Plus, Dynacolor, Ho	neywell, Panasonic,	Installation	Desktop installation			
mind-party Support	Pelco, Sam and others	nsung, Sanyo, Sony, S	Videotec, Vivotek,	Certifications	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				
	C52A2N	8	8 + 4	Compatibility (EMC)				
	C52A3N	16	16 + 8	Immeria ite.				
Resolution		Up to 4K (8 MP), first channel	Up to 4K (8 MP) per channel	Immunity	EN 55024 : 2010			

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Reuse Audio In/Out, RCA

Pro Series | C52A1N/C52A2N/C52A3N

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. Tripwire A target crosses a user-defined line. 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 Object removes an object from the same designated area.

Ordering Information						
Туре	Part Number	Description				
HCVR	C52A1N	4 Analog/HDCVI Inputs, 4 + 2 IP Inputs, 4K (8 MP) 1U Digital Video Recorder				
	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)









