

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



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



Pro Series Smart H.264+

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.



Pro Series | C52A2N/C52A3N

Technical Specification			
System			
Main Processor	Embedded Processor		
Operating System	Embedded LINUX		
Display			
Interface	One (1) HDMI (up to 3840 x 2160) One (1) VGA		
Spot Output (Video Matrix)	HDMI or VGA Interface, configurable		
Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768		
Multi-screen Display	C52A2N	C52A3N	
·····,	1/4/8/9/16	1/4/8/9/16/25	
On-screen Display Options	Camera Title, Time, Video Motion Detection, and Re		
Video Detection and Alarm			
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, FTP, Snapshot, Buzzer, and Screen Tips		
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering, and Diagnosis		
Playback and Backup			
Dlavback	C52A2N	C52A3N	
Playback	1/4/9	1/4/9/16	
Search Mode	Time / Date, Alarm, Motion Detection, and Exact Search (accurate to 1 second)		
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, and Digital Zoom		
Backup Mode		Device work	
Storage	Net		
Internal HDD	2 SATA Ports, up to 8 TB capacity for each disk		
HDD Mode	Single		
Auxiliary Interface			
USB	1 USB 2.0 and One (1) US	1 USB 2.0 and One (1) USB 3.0	
RS485	One (1) Port, for PTZ Con	trol	
Third-party Support			
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others		
Audio and Video			
	Model Analog Inpu	IP Inputs	

Camera Inputs	Model	Analog Inputs	IP Inputs
	C52A2N	8	8 + 4
	C52A3N	16	16 + 8
Resolution		Up to 4K (8 MP), first channel	Up to 4K (8 MP) per channel
Audio In/Out	1/1		
Two-way Talk	Reuse Audio In/Out, RCA		

Recording		
Compression	Smart H.264+/H.264	
Resolution	4K (8 MP), 4 MP, 1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF	
Record Rate, Analog Channels		
Main Stream	First Channel: 4K (8 MP) at 1 Other Channels: 4 MP at 15 1080p, 720p, 960H, D1, HD1	fps or
Sub Stream	D1, CIF, QCIF at 30 fps	
Bit Rate	1 Kbps to 12288 Kbps per Channel	
Record Mode	Manual, Schedule (Regular, Continuous), Motion Detection (Video detection: Motion Detection, Video Loss, Tampering), Alarm, and Stop	
Record Interval	1 to 60 minutes (default: 60 minutes) Pre-record: 1 s to 30 s Post-record: 10 s to 300 s	
Network		
Interface	1 RJ-45 Port (1000 Mbps)	
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)	
Max. User Access	128 users	
Mobile Operating System	IOS and Android	
Interoperability	ONVIF 2.4.1, CGI Conformant	
Electrical		
	C52A2N	C52A3N
	12 VDC, 4 A	12 VDC, 5 A
Power Consumption	< 15 W, without HDD	
Environmental		
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	
Construction		
Dimensions		
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 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.)	
Net Weight	2.35 kg (5.20 lbs), without HDD	
Gross Weight	3.20 kg (7.05 lb)	
Installation	Desktop installation	
Certifications		
Safety	UL 60950-1 CAN/CSA C22.2 No. 60950-1-07	
Electromagnetic Compatibility (EMC)	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	
Immunity	EN 55024 : 2010	

Pro Series | C52A1N/C52A2N/C52A3N

Intelligence

IVS triggers an alarm and takes a defined action for the following events:

Standard Features	 Tampering with the camera. Error writing to an onboard Micro SD card. 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.
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.

Ordering Information

Туре	Part Number	Description
HDCVI DVR	C52A2N	8 Analog/HDCVI Inputs, 8 + 4 IP Inputs, 4K (8 MP) 1U Digital Video Recorder
	• C52A2N1	with 1 TB Storage
	• C52A2N2	with 2 TB Storage
	• C52A2N3	with 3 TB Storage
	• C52A2N4	with 4 TB Storage
	• C52A2N6	with 6 TB Storage
	• C52A2N8	with 8 TB Storage
	C52A3N	16 Analog/HDCVI Inputs, 16 + 8 IP Inputs, 4K (8 MP) 1U Digital Video Recorder
	• C52A3N1	with 1 TB Storage
	• C52A3N2	with 2 TB Storage
	• C52A3N3	with 3 TB Storage
	• C52A3N4	with 4 TB Storage
	• C52A3N6	with 6 TB Storage
	• C52A3N8	with 8 TB Storage
	• C52A3N12	with 12 TB Storage
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)









