

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 IP 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.



Technical Specification	า			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 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) VG		50)	Sub Stream	D1, CIF, QCIF at 30 fps			
Spot Output (Video Matrix)	HDMI or VGA Interface, configurable			Bit Rate	1 Kbps to 12288 Kbps per Channel			
Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768			Manual, Schedule (Regular, Continuous), Motion Record Mode Detection (Video detection: Motion Detection, Video				
	C52A1N	C52A2N	C52A3N		Loss, Tampering), Alarm, and Stop			
Multi-screen Display	1/4/6	1/4/8/9/16		Record Interval				
On-screen Display Options		Camera Title, Time, Video Loss, Camera lock, Motion Detection, and Recording						
Video Detection and Alarm				Network				
Trigger Events			t, Video Push, Email,	Interface	1 RJ-45 Port (1000 Mbps)			
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	C52A1N	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		te, Alarm, Motion D Search (accurate to		Electrical	C52A1N C52A2N C52A3N			
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			Power Consumption	12 VDC, 4 A 12 VDC, 5 A < 15 W, without HDD			
Packup Mode		USB Device		Environmental				
Backup Mode		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 Port	s, up to 8 TB capacit	ty for each disk	Construction				
HDD Mode	Single			Dimensions	1U, 375.0 mm × 287.0 mm × 53.0 mm (14.80 in. x 11.30 in. x 2.10 in.)			
Auxiliary Interface	Interface			Net Weight	2.35 kg (5.20 lbs), without HDD			
USB	1 USB 2.0 a	nd One (1) USB 3.0		Gross Weight	3.20 kg (7.05 lb)			
RS485	One (1) Por	t, for PTZ Control		Installation	Desktop installation			
Third-party Support				Certifications				
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek,				UL 60950-1 CAN/CSA C22.2 No. 60950-1-07 FCC Part 15 Subpart B			
Audio and Video				Electromagnetic Compatibility (EMC)	Electromagnetic ICES 003 FN 55032: 2012+AC:2013 (Class B)			
	Model	Analog Inputs	IP Inputs		1 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Camera Inputs	C52A1N	4	4 + 2					

16 + 8

Up to 4K (8 MP)

per channel

C52A3N

Resolution

Audio In/Out

Two-way Talk

16 Up to 4K (8 MP),

first channel

1/1

Reuse Audio In/Out, RCA

Pro Series | C52A1N/C52A2N/C52A3N

Intelligence

Abandoned/Missing

Object

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.
• 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.

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				
	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				

Dimensions (mm)









