

# 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**

#### 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 x 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.

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

#### **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.



Two-way Talk

Technical Specification				Recording	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	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) HDMI (up to 3840 x 2160) One (1) VGA			Cult Church				
Resolution	3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768			Sub Stream Bit Rate	1 Kbps to 12288 Kbps per Channel			
Multi-screen Display	C52A1		C52A3N	Dit Nate	Manual, Schedule (Regular, Continuous), Motion  Record Mode  Detection (Video detection: Motion Detection, Video Loss, Tampering), Alarm, and Stop			
	1/4/6	5 1/4/8/9/1	.6 1/4/8/9/16/25	Record Mode				
On-screen Display Options		itle, Time, Video Loss etection, and Record		Record Interval	1 to 60 minutes (default: 60 minutes) Pre-record: 1 s to 30 s			
Video Detection and A	Alarm			Necola III.e. va.	Post-record: 10 s to 300 s			
Trigger Events			ut, Video Push, Email,	Network	Network			
	FTP, Snapshot, Buzzer, and Screen Tips  Interface 1 RJ-45 Port (1000 Mbps)  Motion Detection, MD Zones: 396 (22 × 18), Video				) Mbps)			
Video Detection  Playback and Backup	Loss, Tampering, and Diagnosis				HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E,DDNS, FTP, Alarm Server, P2P,IP Search (Support Dahua IP camera,			
	C52A1	LN C52A2N	C52A3N	Max. User Access	DVR, NVS) 128 users			
Playback	1/4	1/4/9	1/4/9/16	Mobile Operating System	IOS and Android			
Search Mode	Time / [		Detection, and Exact	Interoperability	ONVIF 2.4.1, CGI Conformant			
	Search (accurate to 1 second)  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			Electrical	Electrical			
Playback Function					C52A1N	<b>C52A2N</b> DC, 4 A	C52A3N 12 VDC, 5 A	
	USB Device			Power Consumption	< 15 W, without HDD			
Backup Mode		Network		Environmental	Environmental			
Storage				Operating Conditions	Operating Conditions -10° C to +55° C (+14° F to +131° F), 0 to 90% RH			
Internal HDD	2 SATA Ports, up to 8 TB capacity for each disk			Storage Conditions	-20° C to +70° C (-4° F to +158° F), 0 to 90% RH			
HDD Mode	Single			Construction	25 0 66 176 0 ( 1 1 66 1250 1 7 7 6 62 50 7 8 11 11			
Auxiliary Interface					111 375 0 mm x 287 0 mm x 53 0 mm			
USB	1 USB 2.0 and One (1) USB 3.0			Dimensions	(14.80 in. x 11.30 in. x 2.10 in.)			
RS485	One (1) Port, for PTZ Control			Net Weight	2.35 kg (5.20 lbs), without HDD			
Third-party Support	ird-party Support			Gross Weight Installation	3.20 kg (7.05 lb)  Desktop installation			
Dahua, Arecont Vision, AXIS, Bosch, Brickcom,			Certifications	·				
Third-party Support  Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others				Safety	UL 60950-1 CAN/CSA C22.2 No. 60950-1-07			
Audio and Video  Model Analog Inputs IP Inputs			Electromagnetic Compatibility (EMC)	Compatibility (EMC) EN 55032: 2012+AC:2013 (Class B) EN 55024 : 2010 EN 61000-3-2 : 2014				
Camera Inputs	C52A1N C52A2N	8	4 + 2 8 + 4		EN 50130-4: 2011 EN 61000-3-3 : 2013			
	C52A2N C52A3N	16	16+8					
Resolution		Up to 4K (8 MP), first channel	Up to 4K (8 MP) per channel					
Audio In/Out		1/1						

Reuse Audio In/Out, RCA

# Pro Series | C52A1N/C52A2N/C52A3N

# Intelligence

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. 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.

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				

# **Dimensions (mm)**









