

4K Penta-brid HDCVI DVR

8-Channel 1U Digital Video Recorder with Analytics+





WizSense Series devices combine Dahua's powerful Analytics+ with an intuitive and easy to use interface. WizSense devices offer Smart Motion Detection and Perimeter Protection functions that focus on human and vehicular images and ignore irrelevant images to capture important video while reducing false alarms. WizSense Series devices provide powerful general security for small to medium size businesses at a sensible price.

System Overview

The X82B Series HDCVI DVR offers 4K recording on each HDCVI channel and a host of advanced features and functions. The X82B takes advantage of HDCVI technology for easy integration into existing video security systems while leveraging existing networks, cabling, and cameras. Penta-brid access technology seamlessly records video from HDCVI, AHD, TVI, CVBS, and IP sources simultaneously, plus the DVR delivers 4K resolution on each HDCVI or IP channel.

Functions

Perimeter Protection

Dahua Analytics+ includes Tripwire and Intrusion functions that offer custom tripwires based on object type for automation in limited access areas. Perimeter Protection requires less pixels to detect an object to deliver improved accuracy and decreased false alarms due to lights, weather, trees, or animals.

Smart Motion Detection

The Smart Motion Detection, a component of Dahua's Analytics+ technology, improves alarm accuracy and decreases the number of false alarms. The advanced SMD algorithm analyzes a scene for human or vehicle motion, while filtering out other motion due to trees, leaves, animals, weather, and triggers an alarm when detected.

- 4K at 7 fps Recording Resolution on All HDCVI Channels
- Available with a 2 TB, 4 TB, 6 TB, or 8 TB Pre-installed Hard Drive
- Dual-stream Video Recording
- Al Coding Technology for High-quality Human/Vehicle Video
- Auto-detection and Auto-configuration of Video Inputs
- 8 + 8 IP Camera Channels, each channel up to 8MP
- Maximum 128 Mbps Incoming Bandwidth
- Perimeter Protection and Smart Motion Detection (SMD)
- Long-distance Video Transmission
- Five-year Warranty*















Al Coding

The AI Coding function puts recording emphasis on human or vehicular objects in the video scene. This technology, based on constant bit rate (CBR), dynamically allocates increased bit rate to the target object while reducing the bit rate allocated to background objects. AI Coding reduces bit rate and storage requirements by up to 50% when compared to the H.265 video compression standard.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 90% when compared to the H.264 video compression standard.

4K Resolution

The HDCVI DVR records 4K resolution on each HDCVI and IP channel. 4K is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

HDCVI/AHD/TVI/CVBS Auto-detect

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

Long Distance Transmission

HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI devices provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

Pro Series | X82B2A Series

Technical Specification				
System				
Main Processor	Embedded Processor			
Operating System	Embedded LINUX			
Analytics+ Perimeter P	rotection ¹			
Performance	Human and Vehicle object classification Decreased false alarms from leaves, lights, animals Configure function on two (2) channels, or configure function on one (1) channel to use seven (7) channels for SMD Tripwire/Intrusion rules per channel			
Live View	Configure Rule and Object Inspection area Display object classification, event types, trigger time, image snapshot, and object types Export event playback 10 seconds prior to or after event			
Playback	Search by channel, time, event type, and target type Search event playback 10 seconds prior to or after event Snapshot capacity: 500,000			
Analytics+ Smart Motion Detection ¹				
Performance	Detect motion based on object classification (human or vehicle) Decreased false alarms from leaves, lights, animals Configure functions on 8 channels, or configure functions on seven (7) channels to use one (1) channel of Perimeter Protection			
Preview	Configure and inspect detection area			
Playback	Search by channel, time, event type, and target type Search event playback 10 seconds prior to or after event			

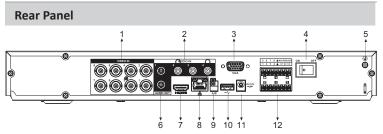
Analog Camera Input HDCVI 8 MP, 6 MP, 5 MP, 4 MP, 1080p, 720p 8 MP, 5 MP, 4 MP, 1080p, 720p TVI 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p TVI 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p TVI 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p TVI 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p TVI 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p TVI 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p TVI 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p TVI 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p TVI 8 MP TVI 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p TVI TWO-way Talk Audio Input: Four (4) Channels, RCA Output: One (1) Channel, RCA Two-way Talk Audio Input Channel 1 In/ Audio Output, RCA Recording Compression Al Coding, Smart H.265+, H.265, Smart H.264+, H.264 8 MP, 6 MP, 5 MP, 4 K-N, 4 MP, 3 MP, 4 M-N, 1080p, 720p, 960H, D1, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) 8 MP at 7 fps 6 MP at 10 fps 5 MP at 12 fps 4 K-N, 4 MP, 3 MP at 15 fps 4 K-N, 4 MP, 3 MP at 15 fps 4 K-N, 4 MP, 3 MP at 15 fps 5 MP at 12 fps 4 K-N, 4 MP, 3 MP at 15 fps 4 K-N, 4 MP, 3 MP at 15 fps 5 MP at 12 fps 4 K-N, 4 MP, 3 MP at 15 fps 4 K-N, 4 MP	Interface				
AHD 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p TVI 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p NTSC 8+8 Channels, each channel up to 8 MP (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) Audio Input: Four (4) Channels, RCA Output: One (1) Channel, RCA Two-way Talk Audio Input Channel 1 In/ Audio Output, RCA Recording Compression Al Coding, Smart H.265+, H.265, Smart H.264+, H.264 8MP, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080p, 720p, 960H, D1, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) Main Stream Record Rate Main Stream Ak-N, 4MP, 3MP at 15 fps 6MP at 10 fps 5MP at 12 fps 4K-N, 4MP, 3MP at 15 fps 4M-N, 1080p, 720p, 960H, D1, CIF at 30 fps Max. Incoming Bandwidth 128 Mbps Max. Incoming Bandwidth 128 Mbps Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression Audio Sample Rate 8 KHz, 16 bits per Channel	Analog Camera Input		Eight (8) Channels, BNC		
TVI CVBS NTSC 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) Audio Input: Four (4) Channels, RCA Output: One (1) Channel, RCA Two-way Talk Audio Input Channel 1 In/ Audio Output, RCA Recording Compression Al Coding, Smart H.265+, H.265, Smart H.264+, H.264 8MP, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080p, 720p, 960H, D1, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) Record Rate Main Stream Main Stream Main Stream Sub Sub Sub Stream Som Pat 7 fps 6MP at 10 fps 5MP at 12 fps 4K-N, 4MP, 3MP at 15 fps 4M-N, 1080p, 720p, 960H, D1, CIF at 30 fps Max. Incoming Bandwidth 128 Mbps Max. Incoming Bandwidth 128 Mbps Bit Rate 32 Kbps to 6144 Kbps per Channel Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression Audio Sample Rate 8 KHz, 16 bits per Channel	HDCVI		8 MP, 6 MP, 5 MP, 4 MP, 1080p, 720p		
CVBS NTSC 8+8 Channels, each channel up to 8 MP (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) Audio Input: Four (4) Channels, RCA Output: One (1) Channel, RCA Two-way Talk Audio Input Channel 1 In/ Audio Output, RCA Recording Compression Al Coding, Smart H.265+, H.265, Smart H.264+, H.264 8MP, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080p, 720p, 960H, D1, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) 8MP at 7 fps 6MP at 10 fps 5MP at 12 fps 4K-N, 4MP, 3MP at 15 fps 4M-N, 1080p, 720p, 960H, D1, CIF at 30 fps Max. Incoming Bandwidth 128 Mbps Max. Incoming Bandwidth 128 Mbps Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression Audio Sample Rate 8 KHz, 16 bits per Channel	AHD		8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p		
IP Camera Input 8+8 Channels, each channel up to 8 MP (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) Input: Four (4) Channels, RCA Output: One (1) Channel, RCA Two-way Talk Audio Input Channel 1 In/ Audio Output, RCA Recording Compression Al Coding, Smart H.265+, H.265, Smart H.264+, H.264 8MP, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080p, 720p, 960H, D1, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) Main Stream Main Stream Main Stream Main Stream May at 7 fps 6MP at 10 fps 5MP at 12 fps 4K-N, 4MP, 3MP at 15 fps 4M-N, 1080p, 720p, 960H, D1, CIF at 30 fps Max. Incoming Bandwidth 128 Mbps Max. Incoming Bandwidth 128 Mbps Max. Incoming Bandwidth 128 Mbps May at 7 fps 6MP at 10 fps 5MP at 30 fps 6MP at 30 f	TVI		8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p		
IP Camera Input (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) Audio Input: Four (4) Channels, RCA Output: One (1) Channel, RCA Two-way Talk Audio Input Channel 1 In/ Audio Output, RCA Recording Compression Al Coding, Smart H.265+, H.265, Smart H.264+, H.264 8MP, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080p, 720p, 960H, D1, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) 8MP at 7 fps 6MP at 10 fps 5MP at 12 fps 4K-N, 4MP, 3MP at 15 fps 4K-N, 4MP, 3MP at 15 fps 4M-N, 1080p, 720p, 960H, D1, CIF at 30 fps Max. Incoming Bandwidth 128 Mbps Bit Rate 32 Kbps to 6144 Kbps per Channel Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression Audio Sample Rate 8 KHz, 16 bits per Channel	CVBS		NTSC		
Audio Output: One (1) Channel, RCA Two-way Talk Audio Input Channel 1 In/ Audio Output, RCA Recording Compression Al Coding, Smart H.265+, H.265, Smart H.264+, H.264 8MP, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080p, 720p, 960H, D1, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) 8MP at 7 fps 6MP at 10 fps 5MP at 12 fps 4K-N, 4MP, 3MP at 15 fps 4M-N, 1080p, 720p, 960H, D1, CIF at 30 fps 960H at 15 fps; D1, CIF at 30 fps Max. Incoming Bandwidth 128 Mbps Bit Rate 32 Kbps to 6144 Kbps per Channel Record Mode Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression G.711a, G.711u, PCM Audio Sample Rate 8 KHz, 16 bits per Channel	IP Camera Input		(The recording rate is dependent on the maximum		
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Recording Resolution 8MP, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080p, 720p, 960H, D1, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) 8MP at 7 fps 6MP at 10 fps 5MP at 12 fps 4K-N, 4MP, 3MP at 15 fps 4K-N, 4MP, 3MP at 15 fps, D1, CIF at 30 fps 960H at 15 fps; D1, CIF at 30 fps Max. Incoming Bandwidth 128 Mbps Bit Rate 32 Kbps to 6144 Kbps per Channel Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression Audio Sample Rate 8 KHz, 16 bits per Channel	Recording				
Recording Resolution 960H, D1, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) 8MP at 7 fps 6MP at 10 fps 5MP at 12 fps 4K-N, 4MP, 3MP at 15 fps 4M-N, 1080p, 720p, 960H, D1, CIF at 30 fps 960H at 15 fps; D1, CIF at 30 fps Max. Incoming Bandwidth 128 Mbps Bit Rate 32 Kbps to 6144 Kbps per Channel Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop Record Interval Record Interval Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression Audio Sample Rate 8 KHz, 16 bits per Channel	Compression		Al Coding, Smart H.265+, H.265, Smart H.264+, H.264		
Record Rate Main Stream Stream Main Stream Main Stream Manual Manua	Recording Resolution		960H, D1, CIF (The recording rate is dependent on the maximum		
Stream D1, CIF at 30 fps Max. Incoming Bandwidth 128 Mbps Bit Rate 32 Kbps to 6144 Kbps per Channel Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression G.711a, G.711u, PCM Audio Sample Rate 8 KHz, 16 bits per Channel	Record Rate		6MP at 10 fps 5MP at 12 fps 4K-N, 4MP, 3MP at 15 fps		
Bit Rate 32 Kbps to 6144 Kbps per Channel Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression G.711a, G.711u, PCM Audio Sample Rate 8 KHz, 16 bits per Channel			• •		
Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression Audio Sample Rate Manual, Schedule (Regular, Continuous), Post-record: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression Audio Sample Rate	Max. Incoming	Bandwidth	128 Mbps		
Record Mode MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop 1 to 60 minutes (default: 60 minutes), Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression G.711a, G.711u, PCM Audio Sample Rate 8 KHz, 16 bits per Channel	Bit Rate		32 Kbps to 6144 Kbps per Channel		
Record Interval Pre-record: 1 s to 30 s, Post-record: 10 s to 300 s Audio Compression G.711a, G.711u, PCM Audio Sample Rate 8 KHz, 16 bits per Channel	Record Mode		MD (Video Detection: Motion Detection, Video Loss,		
Audio Sample Rate 8 KHz, 16 bits per Channel	Record Interval		Pre-record: 1 s to 30 s,		
	Audio Compression		G.711a, G.711u, PCM		
Audio Bit Rate 64 Kbps per Channel	Audio Sample Rate		8 KHz, 16 bits per Channel		
	Audio Bit Rate		64 Kbps per Channel		

The Analytics+ functions are disabled when the additional 9 to 16 IP channels are active. If channel 7 or 8 connect to an IP camera, the Analytics+ functions can be used on analog channels 1 to 6.

Display			-	Electrical			
Interface One (1) HDMI (3840 x 2160) One (1) VGA (1920 x 1080)		F	Power Supply	12 VDC, 4 A			
Spot Output		HDMI or VGA, configurable (HDMI: 1920 x 1080,1280 x 1024, 1280 x 720 VGA: 1920 x 1080,1280 x 1024, 1280 x 720)		Power Consumption	< 10 W, with	nout HDD	
				Construction			
Native Output Resolution VGA	HDMI	3840 x 2160, 2560 x 1440, 1920 x 1080,	ſ	Dimensions			
	VGA	1280 x 1024, 1280 x 720 1920 x 1080, 1280 x 1024, 1280 x 720		HDCVI DVR		nm x 287.15 mm x 53.0 mm 11.31 in. x 2.09 in.)	
VOA		Eight (8) Channels of 4MP/3MP at 15 fps Eight (8) Channels of 4 M-N, 1080p, 720p, 960H at 30 fps Four (4) Channels of 4K at 7 fps		with PFH101 Rack Mount Tray		287.15 mm x 53.0 mm 1.31 in. x 2.09 in.)	
Maximum Playb	ack		1	Net Weight	1.60 kg (3.50 lb)		
Decoding		Four (4) Channels of 6MP at 10 fps Four (4) Channels of 5MP at 12 fps	(Gross Weight	3.0 kg (6.60 lb)		
		Four (4) Channels of 4 M-N, 1080p, 720p, 960H at 30 fps		Installation	Desktop or Rack-mount		
Multi-screen Dis	splay	IP extension mode disabled: 1/4/8/9 IP extension mode enabled: 1/4/8/9/16	١	Video Transmission Distance			
Fisheye Dewarp		Supported via Web Interface	f	RG-59/U Coax	720p: 1080p: 4K/4MP:	800 m (2624.67 ft) 500 m (1640.42 ft) 500 m (1640.42 ft)	
On-screen Displ	ay	Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording	f	RG-6/U Coax	720p: 1080p: 4K/4MP:	1200 m (3937.01 ft) 800 m (2624.67 ft) 700 m (2296.59 ft)	
Network		One (1) DL 4F (1000 Mbps) Port		CATCLITE	720p:	450 m (1476.38 ft)	
Interface One (1) RJ-45 (1000 Mbps) Port HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, Network Function DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP cameras, DVRs, NVS)				CAT 6 UTP (balun required)	1080p: 4K/4MP:	300 m (984.25 ft) 300 m (984.25 ft)	
			Environmental				
Maximum User	Access	128 Users	(Operating Conditions	−10° C to +5	55° C (+14° F to +131° F), 0% to 90% RH	
Mobile Operatir	ng System	IOS, Android	9	Storage Conditions	−20° C to +70° C (−4°F to +158° F), 0% to 90% RH		
Interoperability		ONVIF 16.12, CGI Conformant		Third-party Support			
Video Detec	tion and	Alarm				cont Vision, AXIS, Bosch, Brickcom, Canon, CP	
Irigger Events		Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips		Third-party Support	Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others		
Video Detection	1	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering, and Diagnosis	(Certifications			
		Eight (8) Channels	9	Safety	UL 62368-1 EN 60950-1		
Relay Output		Three (3) Channels			IEC 60950-1		
Playback and Backup				FCC CFR 47 Part 15 Subpart B EN 61000-3-2 EN 61000-3-3 EN 55032			
Playback 1		1/4/9				Electromagnetic Compatibility (EMC)	
Search Mode		Time/Date, Alarm, MD and Exact Search (accurate to 1 second)		,		EN 50130 EN 55024	
Playback Function	on	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		USB Device/Network					
Storage							
Internal HDD		Two (2) SATA Ports, up to 10 TB capacity for each disk					
Auxiliary Inte	erface						
USB One (1) USB 2.0 Port and One (1) USB 3.0 Port							
RS485 One (1) Port for PTZ Control							

Pro Series | X82B2A Series

Ordering Information				
Туре	Part Number	Description		
4K HDCVI DVR with Analytics+	X82B2A	8-Channel Penta-brid 4K 1U Digital Video Recorder, No pre-installed HDD		
	X82B2A2	8-Channel Penta-brid 4K 1U, 2 TB Digital Video Recorder		
	X82B2A4	8-Channel Penta-brid 4K 1U, 4 TB Digital Video Recorder		
	X82B2A6	8-Channel Penta-brid 4K 1U, 6 TB Digital Video Recorder		
	X82B2A8	8-Channel Penta-brid 4K 1U, 8 TB Digital Video Recorder		
Accessory, optional	PFH101	Rack Mount Tray 482.60 mm x 281.20 mm x 43.7 mm (19.0 in. x 11.07 in. x 1.72 in.)		



1	Video Input (x8 BNC)	7	HDMI Output
2	Audio Input (x4 RCA)	8	RJ-45 Ethernet Port (1000 Mbps)
3	VGA Output	9	RS485 Port
4	Power Switch	10	USB Port
5	Ground	11	Power Input
6	Audio Output (x1 RCA)	12	Alarm Input (x8) Alarm Output (x3)

