

PantherView5-16-8D

16 Channel Penta-brid 1080P 1U AVR & 1080P AVS Camera Kit



- H.264+/H.264 dual-stream video compression
- Eight HD2-LRD 1080P HD-AVS Cameras
- Supports HD AVS/ AHD/TVI/CVBS/IP video inputs
- Max 24 channels (16+8) IP camera inputs, each channel up to 5MP
- Max 96Mbps Incoming Bandwidth
- Smart Search and Intelligent Video System
- Support 2 SATA HDD up to 8TB (2TB Included)

System Overview

Clearview's PantherView5-16-8D kit includes the newest generation Panther5-16 and eight HD2-LRD 1080P AVS cameras. Adopting HD AVS technology, an over-coaxial-cable analog HD video transmission standard and H.264+ compression, allowing long-distance HD transmission at a lower cost to meet the requirements for a complex and large installation.

The Panther5-16 supports up to 16 channels of 1080P HD AVS/ AHD/ TVI/ CVBS inputs, and 8 channels IP camera additionally (24 total if coax is disabled), up to 16 channels local live-view channels (25 with IP extension), and 16 playback channels. The AVR also supports 2 SATA HDDs up to 8TB (2TB Included).

The HD2-LRD 1080P AVS cameras feature Starlight, Smart IR with a maximum distance of 164ft, Built in Mic with audio over coax and an IP67 Weather Proof rating.

Functions

Smart H.264+

With the H.264+ Smart Codec, you can reduce bit rates and storage requirements by up to 70% without having to invest in new cameras.

Flexible Recording

The AVR offers a variety of configurable recording options and schedule that saves HDD space and active monitoring time. The recorder monitors incoming video and can be programmed to record if motion is detected or if an alarm is triggered. The recorder 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..

HD AVS/AHD/TVI/CVBS Auto Detect

The AVR can auto-recognize the signal of a camera without any configuration needing to be done. It makes operations friendlier and more convenient.

Simplicity

HD-AVS technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. The HD-AVS system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Protection (IP67, wide voltage)

Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with unstable voltage.

Technical Specification

Panther5-16

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video

IP Video Input	16+8, each channel up to 8MP
Analog Video Input	16
AVS Resolution	1080P@25/30fps, 720P@50/60fps, 720P@25/30fps
AHD Resolution	1080P@25/30, 720P@25/30fps
TVI Resolution	1080P@25/30, 720P@25/30fps
CVBS Standard	PAL/NTSC

Audio

Input	4 Channel output, RCA
Output	1 Channel output, RCA
Two-way Talk	Reuse audio in(channel 1)/out, RCA

Display

Interface	1 HDMI ,1 VGA
Resolution	1920×1080, 1280×1024, 1280×720, 1024×768
Display Split	1/4/8/9/16/25
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Recording

Video/Audio Compression	H.264+/H.264
Image Resolution	1080P, 720P, 960H, D1, HD1, BCIF, CIF, QCIF
Record Rate	Main stream:1080P/720P/960H/D1/HD1/BCIF/CIF/QCIF (1~25/30fps) Sub stream:D1/CIF/QCIF(1~25/30fps)
Bit Rate	32Kbps ~ 6144Kbps Per Channel
Record Mode	Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Record Interval	1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec

Video Detection & 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
Alarm Input	16
Relay Output	3

Playback & Backup

Sync Playback	1/4/9/16
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom
Backup Mode	USB Device/Network

Network

Ethernet	RJ-45 port (1000M)
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, SNMP, P2P, IP Search (Supports IP camera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	Android, iOS, iPhone

Storage

Internal HDD	2 SATA Port, up to 8TB capacity
External HDD	N/A

Auxiliary Interface

USB	2 USB Ports (1 USB 2.0, 1 USB 3.0)
RS232	N/A
RS485	1 Port, for PTZ Control

General

Power Supply	DC12V/5A
Power Consumption	15W(without HDD)
Working Environment	-10°C ~ +55°C (+14°F ~ +131°F), 10%~ 90% RH
Dimensions (W×D×H)	1U, 375mm×287mm×53mm (14.8" x 11.3" x 2.1")
Net Weight	2.35kg (5.2 lb) (without HDD)

Certifications

Certifications	FCC: Part 15 Subpart B ICES 003 Issue 6 CE: EN 55032: 2012+AC:2013 (Class B) EN 55024 : 2010 EN 61000-3-2 : 2014 EN 50130-4: 2011 EN 61000-3-3 : 2013 UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07
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Technical Specification

HD2-LRD

Image Sensor	1/2.7" CMOS
Effective Pixels	1920(H)×1080(V), 2MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s
Minimum Illumination	0.008Lux/F1.85, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 50m (164feet)
IR On/Off Control	Auto / Manual
IR LEDs	1

Lens

Lens Type	Fixed lens / Fixed iris				
Mount Type	Board-in				
Focal Length	3.6mm				
Max. Aperture	F1.85				
Angle of View	H: 87° (103°, 54.7°) V: 47° (59°, 31.3°)				
Focus Control	N/A				
Close Focus Distance	1000mm (500mm, 2000mm) 39.37"(19.69", 78.74"				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	3.6MM	53m(175ft)	21m(70ft)	11m(35ft)	5m(17ft)

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan: 0° ~ 360° Tilt: 0° ~ 78° Rotation: 0° ~ 360°
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Video

Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)
Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language
BLC Mode	BLC / HLC / DWDR
WDR	DWDR
Gain Control	AGC
Noise Reduction	2D
White Balance	Auto / Manual
Smart IR	Auto / Manual

Certifications

Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
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Interface

Video Interface	1-channel BNC high definition video output / CVBS video output (Can switch)
Audio Interface	Built-in Mic
RS485	N/A
Alarm	N/A

Electrical

Power Supply	12V DC ±30%
Power Consumption	Max. 3.7W (12V DC, IR on)

Environmental

Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH *Start up should be done at above -40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	IP67

Construction

Casing	Aluminum
Dimensions	106mm×93.7mm (4.17"×3.69")
Net Weight	0.44kg (0.97lb)
Gross Weight	0.62kg (1.37lb)

Dimensions (mm/in)

