

Panther8-4M

8 Channel Penta-brid 4K 1U Digital Video Recorder



- Embedded processor
- H.265+/H.265 dual-stream video compression
- Supports HD AVS/ AHD/TVI/CVBS/IP video inputs
- Max 12 channels (8+4) IP camera inputs, each channel up to 8MP
- Max 48Mbps Incoming Bandwidth
- Smart Search and Intelligent Video System
- Support 2 SATA HDD up to 10TB, 2USB2.0

System Overview

Clearview's newest generation Panther8-4M adopts HD AVS technology, an over-coaxial-cable analog HD video transmission standard and H.265+/H.265 compression, allowing long-distance HD transmission at a lower cost to meet the requirements for a complex and large installation.

It supports up to 8 channels of 4K HD AVS, 5MP of AHD, TVI and CVBS inputs, and 4 channels IP camera additionally (12 total if coax is disabled), up to 9 channels local live-view channels (16 with IP extension), and 9 playback channels.

The internal storage includes, 2 SATA Ports, up to 10TB capacity for each disk. Its open architecture supports multi-user access and is compatible with ONVIF.

Functions

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 70% when compared to standard H.265 video compression.

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..

High Definition Camera Input

The AVR supports up to 5MP HD AVS cameras and 6MP IP cameras input.

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.

IVS

With built-in intelligent video analytics, the AVR has the ability to detect and analyze moving objects for improved video surveillance. The AVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the AVR to detect when a predetermined line has been crossed, ideal for business intelligence, workforce optimization, and actionable intelligence.

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.

Technical Specification

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video

IP Video Input	8+4, each channel up to 8MP
Analog Video Input	8
AVS Resolution	4K, 6MP, 5MP, 4MP, 1080P, 720P
AHD Resolution	5MP, 4MP, 1080P, 720P
TVI Resolution	5MP, 4MP, 1080P, 720P
CVBS Standard	PAL/NTSC

Audio

Input	1 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	HDMI:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 VGA: 1920×1080, 1280×1024, 1280×720
Display Split	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording

Recording

Video/Audio Compression	H.265+/H.265/H.264+/H.264
Image Resolution	4K, 6MP, 5MP, 4MP, 3MP, 4M-N, 1080P, 720P, 960H, D1, CIF
Record Rate	Main stream: 4K(1~7fps); 6MP(1~10fps); 5MP(1~12fps); 4MP/3MP(1~15fps); 4M-N/1080P/720P/960H/D1/CIF(1~25/30fps) Sub stream:960H(1~15fps);D1/CIF(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	N/A
Relay Output	N/A

Playback & Backup

Sync Playback	1/4/9
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 10TB 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/4A
Power Consumption	10W(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	1.5kg (3.3 lb)

Certifications

Certifications	FCC: Part 15 Subpart B CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 UL: UL 60950-1
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Dimensions (mm/in)

