CAPABILITIES

EH5108PLUS Hybrid Video Surveillance DVR

Linux + Hybrid!

Model Number(s):

- EH5108PLUS - 8 channel solution

Key Points

- Embedded Linux
- 8 Channel, True Hybrid DVR
- Graphical User Interface – *World's First in a Linux System!*
- Adjustable Frame Rates and Resolution on Every Channel (Analog Cameras Only)
- D1 real-time over 4 channels

AVerMedia's EH5108PLUS is a true hybrid DVR that fuses Linux reliability with a fully featured Graphical User Interface (GUI) designed for ease-of-use, high performance and exceptional image quality - at a great price.

Perfect for deployments in small to medium businesses, the system utilizes existing analog infrastructure while allowing for future IP expansion. Individually adjustable resolution/fps, comprehensive remote administration, robust IP camera support, fully-featured front panel/GUI and the crystal-clear video people expect from AVerMedia make the EH5108PLUS video surveillance that is effective and affordable.

ADMINISTRATION

- Embedded Linux system
- Frame rates: 120 fps at D1 resolution
- Supports all major IP camera brands (check support list for integrated cameras)
- IP camera Pan-Tilt-Zoom enabled for Zoom, Focus, Direction, Speed, Preset point and Auto-pan
- Uncomplicated live online updates for system and/or IP camera support

CONFIGURATION

- Individually adjust the resolution and frame rates for all analog channels
- Pre-schedule many system functions including recording, backup, reboot, alarm and relay controls as a one-time or recurring weekly task

CAPABILITIES

MONITORING

For environments that depend on live video, the EH5108PLUS offers many features for fast and responsive event management:

- Video (Max of 8 feeds in any combination)
  Analog - 8 BNC Connectors with MPEG4 compression
  IP - 8 Channels with H.264, MPEG4 and MJPEG streams
    up to 2.3 MegaPixel (1920x1200) support for CHs 1-7
    up to 5 MegaPixel (2592x1944) support for CH 8
- Audio - 8 channel in and 1 channel out, 1 microphone input
- 16 sensors & 4 relays and up to 128 more with addt'l E-I/O box
- E-maps (8) showcasing camera, sensor and relay positions
- Monitor video (live and playback) at local DVR site or remotely

Live Display

- Award winning Graphical User Interface (GUI)
- Channel Auto scan with 1, 4, 8, 9, 13 & 16 screen splits
- Digital zoom incorporated for greater detail in live video

Alarm/Notifications

The EH5108PLUS is ready for real-time incident response by:

- Starting video recording on multiple cameras
- Sending footage to spot monitor
- Enabling camera PTZ tracking and enlarging triggered video
- Following sensor with relay protocols (e.g. locking gates etc.)
- Launching the triggered channel's corresponding Emap
- Sending email notifications
- Playing warning audio alarm
- Sending video to Central Management System

VIDEO ENHANCEMENTS

The EH5108 includes editing software to amplify video quality:
• iEnhance - color, noise and light manipulation
• iStable - smooths shaking and jolts

USER ACCESS

- Up to 32 user accounts with individually assigned passwords and user privileges (operation, control and remote access)

RECORDING

Based on environmental needs, recording can be setup to maximize video quality and minimize storage needs:

- Recording modes - Continuous, Alarm (Motion, Smart* or Audio) recording
- Alarm based recording can be schedule dependent
- Two types of de-interlace methods (for analog cameras): optimized for static or dynamic scenes for smoother images

*Smart - activity based escalation of recording fps (low - high)

FORENSICS

For rapid retrieval/export of pertinent data the EH5108 provides:

Search

- Defined parameter search by date, time, camera, event, and event log file
- AVerMedia patented Visual Search that visually breaks down video by day, hour, minute, 10 seconds and second
- Time search to scroll through footage by moments
- Easy retrieval and playback of footage by "Bookmarking" significant segments
- Advanced event log search by event, operation, system and network activities

Playback

- Built-in channel playback controls for date and time

Backup/Storage

- Easily export/backup to DVR-RW, USB flash drive and external HDD
- Supports 3 (4th optional) SATA HDDs and 1eSATA HDD concurrently

REMOTE

Viewing

From laptops, cells phones, PDAs and more, you can track video whenever and wherever

- iViewer (for Apple iPhones), WebViewer, PDAViewer, JavaViewer and Remote Console
- Supports Gigabit LAN for network connection speed

Multiple Systems

- With CM3000 central management software, you have total command of up to 1000 remote systems from one location

Multicasting

- iDispatch - For high-traffic video broadcasting, the EH5108 will multicast video streams to drastically lower network, server and camera loads for effective remote viewing

SPECIFICATIONS

EH5108PLUS Detailed Specifications

Front Panel Connections	
Front panel controls	Power switch, Keypad, PTZ Controls
DVD writer	Included, supported medias: DVD±R, DVD±RW
USB 2.0	3

Rear Panel Connections	
Video Inputs (analog)	8 - Looping, BNC connectors
Video Inputs (IP)	8 video H.264/MPEG4/JPEG data streams
Video Output	1 - VGA out, 2 - Spot Monitor Out
Audio Input/Output	8/1
Microphone Input	1
Alarm Inputs/Relay Outputs	16/4
E-SATA	1
USB 2.0	0
Communication	1x - RS232, 1x - RS485
AC Power	Power Adapter, 19V DC

Unit		
Operating system		Embedded Linux
Compression (analog)		MPEG4
Video Format	Analog	NTSC: 352x240 (CIF), 720x240 (Half-D1), 720x480 (D1)
	IP	Up to 1920X1200/CH, 8th CH up to 5 megapixel
Recording Rates	Analog	Individually Adjustable (0 - 30fps for analog inputs) — CIF 240fps; Half-D1 240fps; D1 120fps
	IP	Per camera specifications
Storage	Capacity	Supports up to 3 Internal SATA HDD (4th Optional)
	eSATA	1 eSATA connector, Support eSATA RAID
Communication Ports	RS 485	1, Terminal block, Tx+, Tx-, Rx+, Rx-
	RS 232	1, 9 Pin, Male
Networking		1x - 10/100/1000 Base-T Ethernet, RJ-45
Supported IP cameras (support IP PTZ, IP IO, & IP audio if IP cameras built-in)		AXIS, Panasonic, SONY, Arecont, Mobotix, BOSCH, IQinvision, JVC, TOSHIBA, VIVOTEK, ACTi, D-Link, PiXORD, PELCO, Apron, Lilin and more
Operator Interface		USB mouse, USB PC keyboard, Remote controller (supports optional IR extension cable)
Browser/Remote Client		MS Internet Explorer 6+, Windows 2000, XP, VISTA

Mechanical	
Dimensions (H x W x D)	2.6 x 16.9 x 14.5in
Weight	10 lbs (not including optional HDD)
Rack Mountable	Optional rack ears

Regulatory	
Emissions	FCC: Part 15, Class A

Software	
Interface	Graphical user Interface (world's first in Emb. Linux)
Account Administration	Up to 32 accounts with configurable user privileges
Camera Administration	Individually adjust fps/resolution per analog camera
PTZ Control	Zoom-in/Zoom-out, Focus-in/Focus-out, Direction, Speed, Preset point, Autopan
De-interlace options	Optimize for dynamic/static analog camera scenes
Playback Administration	Playback while recording or setup
	Play, rewind, fast-forward, frame-by-frame control
	Digitally zoom to specific regions on recorded video
	Export single frame to .jpg, export video clip to .DVR
Motion Detection	Configurable to sense mass/motion; can partition off areas in monitoring regions from motion triggers
Event Recording	Schedule: Continuous, Smart, Motion, Alarm, Manual
Video Event Search	Visual Search, date/time, camera, event & log files
Advanced Event Log	Full event/operation/system/network activities log
Alarm Notifications	Launch or send E-map, relay, video capture, CM3000 or E-mail notification
E-map Display	Positions of cameras/sensors/relays & event status
iEnhance	Enhance video quality such as Brightness/Contrast/ Hue/ Saturation/ Sharpness/ Noise Reduction/De- interlace/ Gray Scale of recorded video
iStable	One-click fix for shaky video caused by camera movement (such as wind or vandalism)

Remote Management	
Central Management	CM3000 software - supports up to 1000 DVRs
Remote DVR connectivity	WebViewer (MS Internet Explorer only), Remote Console, JavaViewer, PDAViewer
Dispatch Server	Balance NVR communication for added client access and greater data transfer speeds
DDNS	Allow remote clients to search dynamic servers without enquiring for server's IP address

Environmental		
Temperature	Operating	32 ° to 104 °F
	Storage	-22°F to 140 °F
Relative humidity	Operating	50%-80%
	Stored	90%

Warranty
2 Year Limited Parts and Labor

RECOMMENDATIONS

EH Series Hardware Recommendation List

SATA HDD

Brand	Model	Capacity
Hitachi	HDT725050VLA360	500GB
	HDP725050GLA360	500GB
	HDT721010SLA360	1TB
	HDS722020ALA330	2TB
Seagate SV35.5	ST3500410SV	500GB
Seagate SV35.3	ST31000340SV	1TB
	ST31000525SV	1TB
Seagate SV35.2	ST3500630SV	500GB
	ST3750640SV	750GB
WD	WD3200AVVS-63L2B0	320GB
	WD7500AACS-00ZJB0	750GB
	WD10EADS-22L5B1	1TB
	WD20EADS	2TB

PTZ Camera (visit our website support/download page for a complete list)

Brand	Product Number
AmericanDynamics	UltraS - all products
Canon	VC-C4R
CD55	all products
DiGiDome	DRX -502A (DOH-240)
DMP23-H2	DMP23-H2
DynaColor	All products
Eastel	all products
ELMO	PTC -200C
Fastrax II	HID-2404
JVC	TK-C676 / TK-C675
Lilin	PIH 717X / 7000 / 7600 / PIH 7622/ 7622DH / 7635DH
MD101	all products
MicroJack-P	all products
NiceCam	all products
Panasonic	WV-CS850 / WV-CW860 / WV-CS950 / CS850B / CW860A / WV-CZ352
Pelco	Pelco-D/ Pelco-P
Philps	TC8560, TC700
SamSung	SCC-641
Sony	15-CZ45-1 /EVI-D70P
Yoko	all products

Raid System

Brand	Product Number
Stardom	SR3610-2S-SB2
AVerDigi	RA4000e

PDA Basic requirement

Notice: This feature is only available on version 5.1 or above AP.
For customers who are using 5.0 version of AP, please visit the Support/Download page to download and upgrade to the latest version of AP
1. CPU: Arm architecture, for example, Intel Xscale.
2. OS: MS Window Pocket PC 2002/2003 or Mobile 5 and above.
3. GPRS or WLAN module is recommended.

Symbian Smartphone Basic Requirement

Notice: This feature is only available on version 7.1 or above AP.
For customers who are using v5.7, v.5.5, v5.1 or v5.0 version of AP please visit the Support/Download page to download and upgrade to the latest version of AP
1. OS:Symbian Smartphone
2. The OS needs to support JAVA MIDP 2.0(JAVA2 ME)
3. Network module such as WAP, GPRS, WLAN, etc is required.

*Hardware recommendations are the minimum required hardware specifications for running our systems and not a guarantee to achieve the best performance of our DVR systems. Hardware specifications required to achieve the best performance of our DVR systems are subjected to different system settings and operation conditions.

Note:

We highly recommend against using Samsung Hard Disk Drives for SA, XR and EXR DVR products.