AVer EH1000H-4 Nano Series
4/8/16CH H.264 embedded hybrid DVR

- Compact design for small to medium-sized businesses and retail stores
- 4/8/16CH video inputs support both IP and analog cameras that increases the flexibility to camera selection, and ease budget restraints
- Supports up to 4CH IP camera inputs for megapixel image quality in critical areas
- Embedded Linux operating system offers cost-effective yet reliable system performance without the worry of computer viruses
- Powerful advanced streaming technologies provide improved preview performance

HYBRID

H.264

LINUX

MEGA PIXEL

CMS

Compact hybrid solution for noise sensitive application

With a size equal to a paperback book, fan-less (4CH & 8CH) and mini-fan (16CH) designs, and a price that's just right for small to medium-sized businesses and retail stores, the EH1000H-4 Nano is the perfect choice for users looking to upgrade their existing security system while dealing with a tight budget and limited space.

Advanced streaming technologies

With unique intelligent streaming technology for AVer SF1311 series IP cameras, users can enjoy the smoothest preview images by selecting a channel's compression type, frame rate and quality for both remote and DVR sites. The integrated dual streaming technology also optimizes streaming to remote sites by selecting frame rate and resolution when fully connected to analog cameras.

*EH1004H-4 and EH1008H-4 support up to 2 channels intelligent streaming; EH1116H-4 supports up to 4 channels intelligent streaming
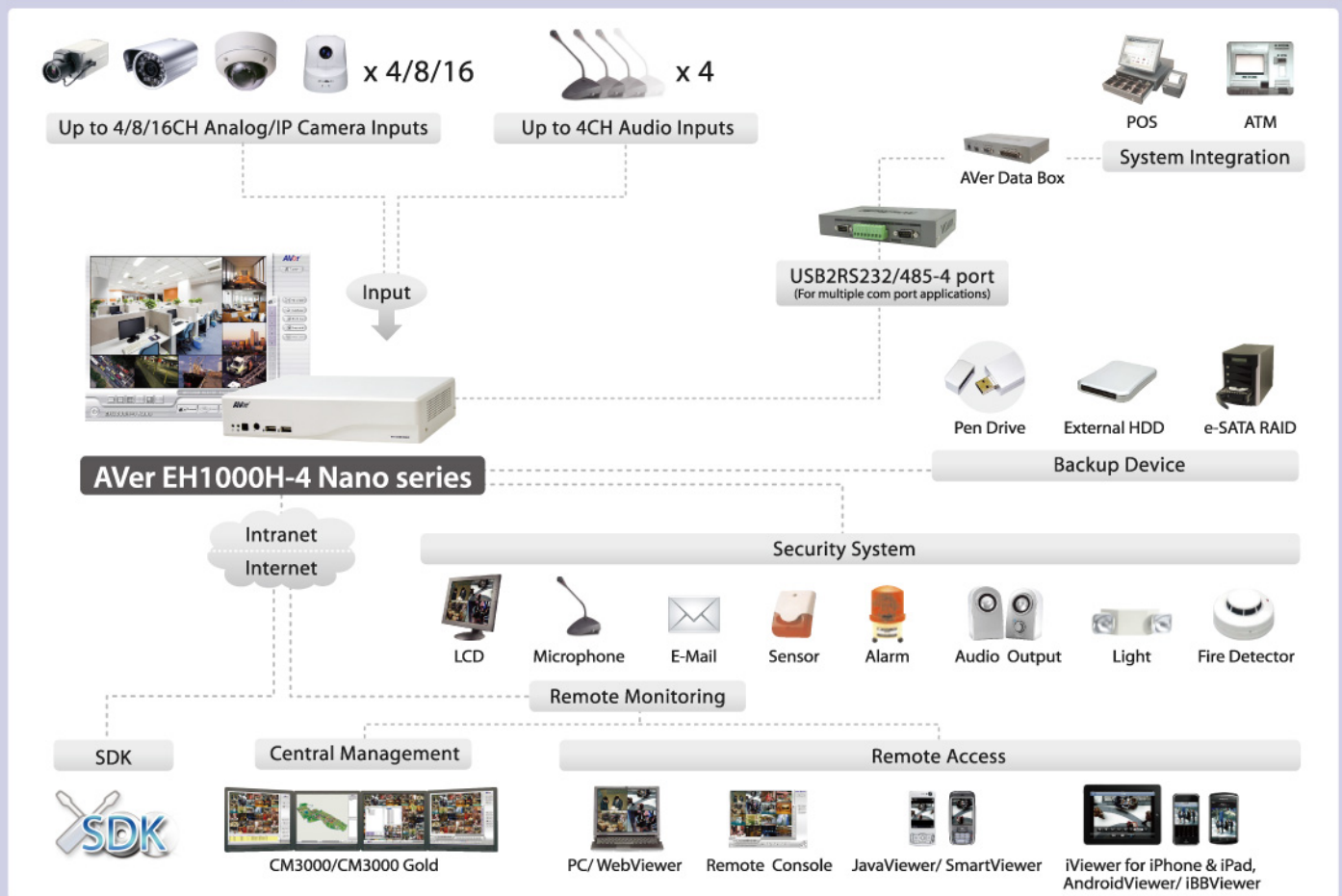
Excellent POS integration

The EH1000H-4 Nano series is compatible with the most commonly seen POS systems on the market, using general POS protocol integration to easily add POS systems through the AVer Data Box. The EH1000H-4 Nano series can receive all transaction data from POS systems and overlay the POS text on live images with adjustable color settings.

Remote software integration

The EH1000H-4 Nano series is compatible with AVer's CM3000/CM3000 Gold helping you to achieve powerful central management. The EH1000H-4 is also integrated with remote monitoring software, allowing users to exchange surveillance information easily between the control center, branch offices and the owner, plus view live video on popular mobile devices such as iPhones, iPads, Android phones, and Blackberries.
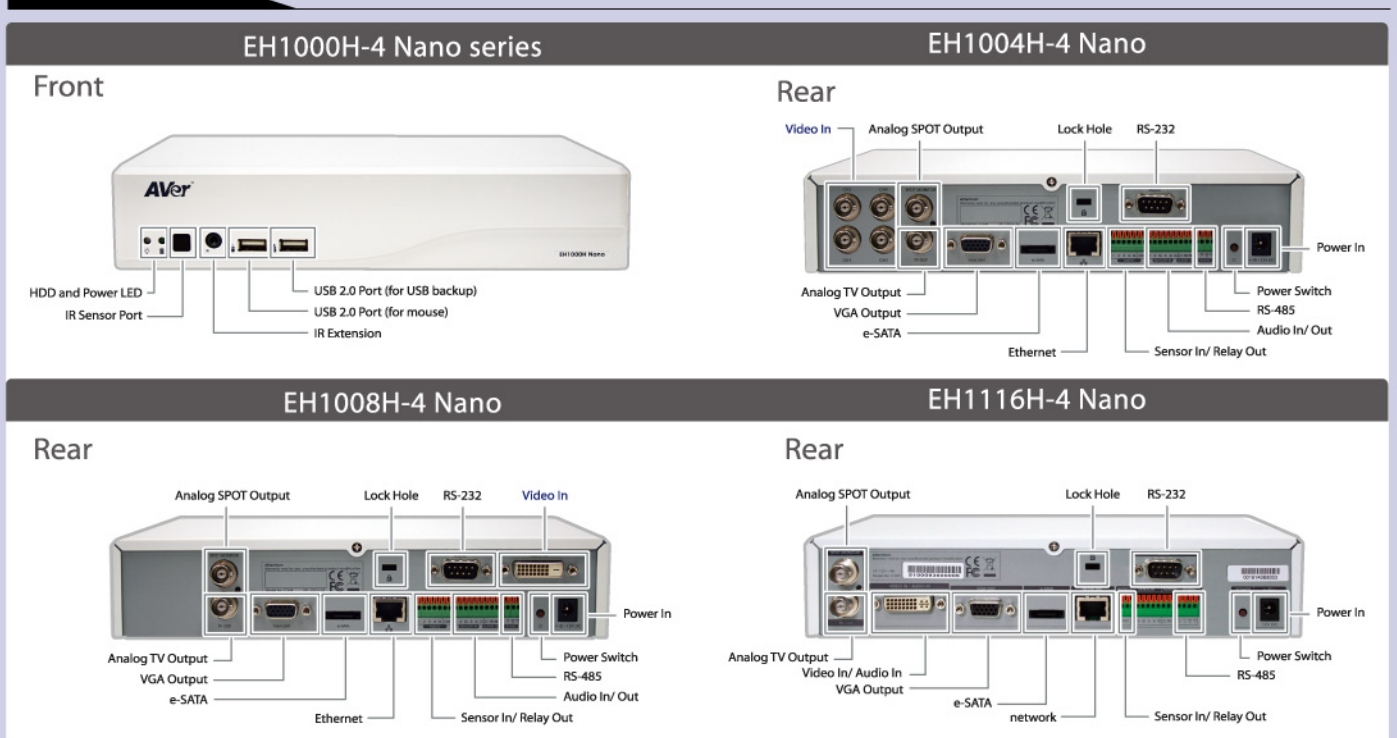
Application diagram

Up to 4/8/16CH Analog/IP Camera Inputs — x 4/8/16

Up to 4CH Audio Inputs — x 4

POS   ATM
System Integration

AVer Data Box

USB2RS232/485-4 port
(For multiple com port applications)

Input

Pen Drive   External HDD   e-SATA RAID
Backup Device

AVer EH1000H-4 Nano series

Intranet
Internet

Security System

LCD   Microphone   E-Mail   Sensor   Alarm   Audio Output   Light   Fire Detector

Remote Monitoring

SDK   Central Management   Remote Access

CM3000/CM3000 Gold   PC/ WebViewer   Remote Console   JavaViewer/ SmartViewer   iViewer for iPhone & iPad, AndroidViewer/ iBBViewer

Software functions

model	EH1004H-4 Nano	EH1008H-4 Nano	EH1116H-4 Nano
local functions			
IP camera auto search	yes		
recording modes	continuous recording/ smart recording/ motion recording/ alarm recording/ manual recording; all modes can be triggered by schedule		
de-interlace options	no		optimized for dynamic or static camera scenes
motion detection	detects any kind of movements within the camera focus		
E-map function	8 maps and shows the positions of cameras, sensors, relays and triggered status		
PTZ control	direction, focus, zoom, speed, preset, group, autopan		
event search	by data/ time/ camera/ event/ log file		
bookmark	easily saves links to particular locations of recorded data and play them directly from the saved links		
watermark	embedded watermark at output clip file		
POS connection	2		5
alarm setting	32 alarms		
alarm triggered modes	single event or multiple events as alarm trigger conditions: video loss/ motion detection/ sensor input/ abnormal event/ HDD fail		
smart alert functions	launch E-map/ 1-cam display/ Email/ PTZ preset point tracking/ start recording/ relay output/ enlarge camera view/ send video to CMS		
user accounts	32		
DDNS	allows remote clients to search dynamic servers without enquiring for server's IP address		
remote functions			
central management	CM3000 supports up to 16 DVRs; CM3000 Gold supports up to 1,000 DVRs		
remote access	WebViewer, PCViewer, Remote Console, JavaViewer, iViewer for iPhone & iPad, AndroidViewer, iBBViewer, SmartViewer		
remote setup	change server setting remotely		
remote backup	schedule or manual backup remotely		
iEnhance	enhance video quality such as Brightness/ Contrast/ Hue/ Saturation/ Sharpness/ Noise Reduction/ De-interlace/ Gray Scale of recorded data		
iStable	fix shaking and jolts impact on video with just one click		

EH Nano vs. 1U standalone	noise		size	weight	shipping costs
	(4/8CH) 100% ↓	(16CH) 40% ↓	80% ↓	70% ↓	80% ↓

Product diagram

EH1000H-4 Nano series

Front

HDD and Power LED
IR Sensor Port
USB 2.0 Port (for USB backup)
USB 2.0 Port (for mouse)
IR Extension

EH1004H-4 Nano

Rear

Video In — Analog SPOT Output — Lock Hole — RS-232
Analog TV Output
VGA Output
e-SATA
Ethernet
Sensor In/ Relay Out
Power In
Power Switch
RS-485
Audio In/ Out

EH1008H-4 Nano

Rear

Analog SPOT Output — Lock Hole — RS-232 — Video In
Analog TV Output
VGA Output
e-SATA
Ethernet
Sensor In/ Relay Out
Power In
Power Switch
RS-485
Audio In/ Out

EH1116H-4 Nano

Rear

Analog SPOT Output — Lock Hole — RS-232
Analog TV Output
Video In/ Audio In
VGA Output
e-SATA
network
Sensor In/ Relay Out
Power In
Power Switch
RS-485

Product specifications

model		EH1004H-4 Nano	EH1008H-4 Nano	EH1116H-4 Nano
system				
operating system		embedded Linux		
total channel numbers		4 channels	8 channels	16 channels
camera inputs (analog)		4 BNC connectors	8 BNC connectors	16 BNC connectors
max IP camera inputs		4		
composite video signal		1 Vpp, 75 Ohm		
performance				
recording (analog)	compression	H/W H.264		
recording (analog)	resolution	NTSC: 352 x 240 (CIF), 720 x 240 (Half-D1), 720 x 480 (D1) PAL: 352 x 288 (CIF), 720 x 288 (Half-D1), 720 x 576 (D1)		
recording (analog)	frame rate (NTSC/PAL)	CIF: 120/100fps	CIF: 240/200fps	CIF: 480/400fps
recording (analog)	frame rate (NTSC/PAL)	Half-D1: 120/100fps D1: 60/50fps		Half-D1: 240/200fps D1: 120/100fps
recording (IP)	resolution	up to 1.3 megapixels with H.264/MPEG4/MJPEG format on the first 4 channels and 2.3 megapixels with MJPEG format on the 1st channel		
display (analog)	frame rate (NTSC/PAL)	120fps/100fps	240fps/200fps	480fps/400fps
storage	Internal HDD capacity	supports up to 1 SATA HDD		
storage	external HDD	supports 1 external e-SATA HDD (up to 2TB)		
interface				
monitors	VGA outputs	1 (1024 x 768)		
monitors	SPOT monitor outputs	1 SPOT output (full screen output from alerted analog cameras) 1 TV output (full screen output same as VGA video)		
audio	inputs	4 line-in, 8KHz sampling rate		
audio	outputs	1 line-out		
alarm	sensor (alarm) inputs	4 (input voltage: max. 6 VDC)		
alarm	relay outputs	1 (NO/NC), voltage range: 125 VAC / 30 VDC, switching current: max. 1A		
network	Ethernet (RJ-45)	1 port (10/100 Base-T)		1 port (10/100/1000Base-T)
connections	e-SATA	1 port		
connections	RS-232	1 (D-sub 9 pins, male)		
connections	RS-485	1 set (Tx+, Tx-, Rx+, Rx-)		
connections	USB 2.0	2 ports on front panel		
general				
electrical	power input	24W power adapter, 12V DC		48W power adapter, 12V DC
electrical	power consumption	max. 24W (with 1 HDD)		approx. 36W (with 1 HDD)
environmental	operating temperature	0 °C to 40 °C (32 ° to 104 °F)		
environmental	operating humidity	90% RH		
mechanical	dimensions (W x H x D)	245 x 50 x 160 mm		
mechanical	weight (net)	0.8kg		

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