

# AAEON's Network Video Recorder

*Video Surveillance Everywhere*



# Introduction

The NVR (Network Video Recorder) is AAEON's latest product line launch. These advanced new products are available in desktop and rackmount configurations. Performance ranges from entry-level to high-end systems, supporting both Linux and Windows operation systems. AAEON provides versatile solutions to fit the diverse needs of the Surveillance applications market. By featuring big storage and high-performance computing, along with optional real-time video analysis software functionality, AAEON's NVR series can be widely used in a variety of vertical markets, such as retail, public transportation, and vehicle surveillance, to name a few. In addition, by using the NVR systems, live video with high definition images from selected IP cameras can be viewed remotely from anywhere in the world, including mobile devices, such as smart phones and tablets. Moreover, most of AAEON's NVR series support RAID functionality to combine multiple disk drive components into a logical unit for data redundancy and performance improvements, by methods such as striping, mirroring and block-level striping with distributed parity. Being a leading manufacturer of industrial motherboards and systems, AAEON also provides flexible customization services that can be widely adopted by global brand vendors. The NVR series with optional NVR software will become a reliable partner for POS applications to support daily transactions in various retail business and chain stores.

## Big Data and High Definition Image Processing

How to save and backup Big Data safely is the key technology of NVR systems. AAEON's NVR offers Movement Capture, Incidence Duration, High Volume Data Storage, Intensive Search, Fast Sharing and Transferring, Depth Data Analysis, as well as other technologies to fulfill the demands of customers' vital applications

## Supports RAID Function (NVR-B75 excluded)

RAID 0, 1, 5, 10 function combines multiple disk drive components into a logical unit for data redundancy and performance improvement, comprises striping, mirroring and block-level striping with distributed parity.

## Customization Services

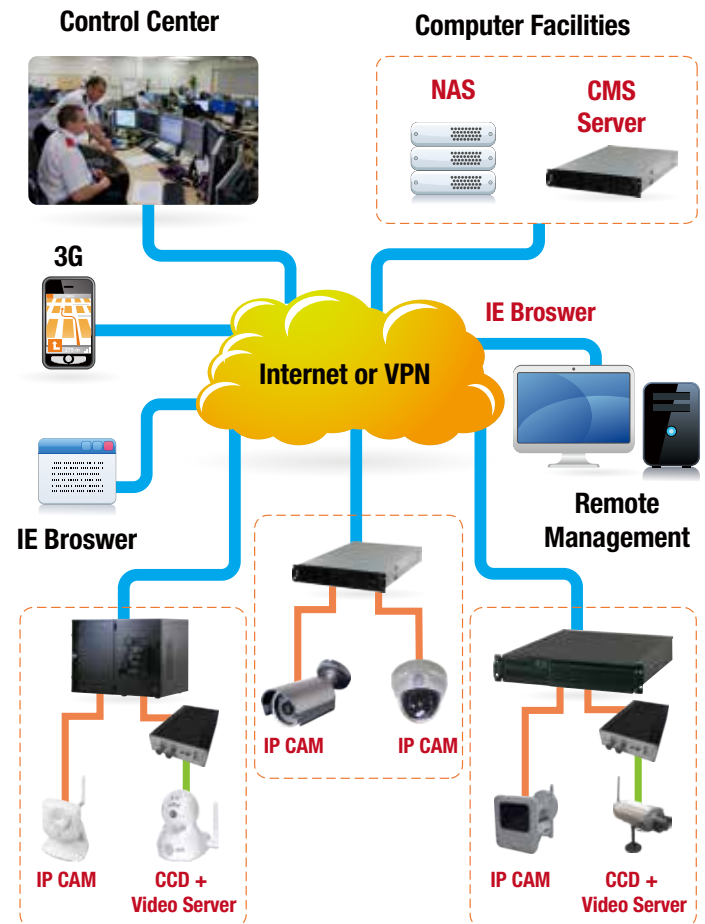
AAEON offers NVR customization services including chassis color, logo and front plate customization, exclusive HDD tray handler, main motherboard function modifications with reasonable NRE fee.

## Retailer Partner

- Email alert with abnormal business transactions
- Audit the performance of chain stores worldwide
- Generate instant performance report
- Event and Fraud investigation and recording



## Enterprise Management



Note: All specifications are subject to change without notice.

# Features

## NVR-6300S



4U Rackmount Network Video Recorder System with Intel® Core™ i3/i5/i7 Processor

- LGA 1150 Socket for 22nm Intel® Core™ i3/i5/i7 Processor, Max. 65W TDP
- Dual-Channel 240-pin DDR3 1600MHz DIMM x 4, Up to 32GB
- 3 Graphic Displays Interface: HDMI x 1, DisplayPort x 1, VGA x 1
- Intel® 10/100/1000Base-TX Ethernet x 2
- SATA 6.0 Gb/s x 14, SATA 1~6 Support RAID 0/1/5/10, SATA 7~14: RAID (TBD)
- USB 2.0 x 8, USB 3.0 x 4, Onboard COM Header x 2
- PCI-E [x16] x 1, PCI-E [x4] x 1 (Signal [x2])
- Audio Jack x 3 (Mic-in / Line-in / Line-out)
- Hot-Swappable 3.5" SATA HDD Tray x 12 + Hot-swappable 2.5" SATA HDD Tray x 1, Slim Optical Disk Drive x 1
- Supports PoE Function

## NVR-CV



Standalone NVR System with Onboard Intel® Atom™ D2550 Processor

- Integrated Intel® Atom™ Processor D2550 Dual Core 1.83GHz
- Intel® ICH10R
- Single Channel with 204-pin DDR3 1066/800MHz DIMM x 2, up to 4GB, non-ECC, Un-buffered Memory
- 10/100/1000Base-TX Ethernet Port x 2
- 3.5" or 2.5" SATA HDD Hot Swappable Tray x 4
- COM x 2, USB2.0 x 6
- RAID 0/1/5/10 Support

## NVR-B75



Retail Appliance NVR System with Intel® Core™ i3/i5/i7 Processor

- Intel® Core™ i3/i5/i7 Processor
- Intel® B75 Chipset
- 4GB DDR3-1333 240-pin DIMM Memory, Up to 16GB
- 10/100/1000Base-TX Ethernet x 2
- Hot Swappable SATA HDD Tray x 5, Internal 3.5" SATA HDD x 1
- Front: USB3.0 x 2, Rear: USB2.0 x 2 + USB3.0 x 2
- HDMI x 3, VGA x 1
- 400W ATX Power
- Windows® 7 Embedded Standard (Optional)
- RAID 0/1/5/10 Support (With Extra Optional RAID Card)

## NVR-Q67



2U Rackmount Network Video Recorder System With Intel® Core™ i3/i5/i7 Processor

- Intel® Socket 1155 with 2nd Generation Core™ i3/i5/i7 Processors
- Intel® Q67 Chipset
- 4GB or 8GB DDR3 1333/1600MHz Non-ECC, Un-buffered DIMM Memory, Up to 32GB
- 10/100/1000Base-TX Ethernet x 2
- 3.5" SATA HDD Bay x 6 + x 2.5" Internal System HDD Bracket x 1 with 460W PSU
- Onboard COM x 2, USB2.0 x 4 (Rear)
- VGA x 1, DVI-D x 1, DisplayPort x 1
- Audio Line-out, Line-in, Mic-in
- RAID 0/1/5/10 Support
- Windows® 7 Embedded Standard (Optional)

## NVR-Q67S



2U Rackmount Network Video Recorder System with Intel® Core™ i3/i5/i7 Processor

- Intel® Socket 1155 with 2nd Generation Core™ i3/i5/i7 Processors
- Intel® Q67 Chipset
- 4GB or 8GB DDR3 1333/1600MHz, Non-ECC, Un-buffered DIMM Memory, Up to 32GB
- 10/100/1000Base-TX Ethernet x 2
- PCI-E to SATA 2-port Conversion Card
- 3.5" SATA HDD Hot Swappable Tray x 8 + 2.5" internal HDD Bracket x 1
- Onboard COM x 2, USB2.0 x 2 (Front), USB2.0 x 4 (Rear), VGA x 1, DVI-D x 1, DisplayPort x 1
- Supports RAID 0/1/5/10
- Audio Line-out, Line-in, Mic-in
- Windows® 7 Embedded Standard (Optional)
- 500W PSU

# Selection Guide



Model	NVR-6300S	NVR-CV	NVR-Q67	NVR-Q67S	NVR-B75
<b>Application</b>	Networking Video Recorder Surveillance Management	Networking Video Recorder Surveillance Management	Networking Video Recorder Surveillance Management	Networking Video Recorder Surveillance Management	Networking Video Recorder Surveillance Management Retail NVR Appliance
<b>Form Factor</b>	4U Rackmount	Mini Tower	2U Rackmount	2U Rackmount	Tower Station
<b>Processor</b>	Intel® 4th Gen. Core™ i3/i5/i7 Processor	Intel® Atom™ D2250	Intel® Core™ i3/i5/i7 Processor	Intel® Core™ i3/i5/i7 Processor	Intel® Core™ i3/i5 Processor
<b>Chipset</b>	Intel® Q87	Intel® ICH10R	Intel® Q67	Intel® Q67	Intel® B75
<b>System Memory</b>	32GB, DDR3 1333, 240-pin DIMM	4GB, DDR3, Non-ECC, 1066MHz SODIMM	8GB, DDR3-1333, 240 pin DIMM	8GB, DDR3-1333, 240 pin DIMM	4GB, DDR3-1333, 240 pin DIMM
<b>Ethernet</b>	10/100/1000Base-TX Ethernet x 2	10/100/1000Base-TX Ethernet x 2	10/100/1000Base-TX Ethernet x 2	10/100/1000Base-TX Ethernet x 2	10/100/1000Base-TX Ethernet x 2
<b>Drive Bay</b>	Hot-Swappable 3.5" SATA HDD tray x 12 + hot-swappable 2.5" SATA HDD tray x 1	Support 3.5" SATA HDD x 4 or 2.5" SATA HDD x 4 Removable Tray	Support Internal 3.5" SATA HDD x 6 + internal 2.5" SATA HDD Bracket x 1	Support hot swappable 3.5" SATA HDD x 8 + internal 2.5" SATA HDD Bracket x 1	Support removable 3.5" SATA HDD Tray x 5 + internal 3.5" SATA HDD Bracket x 1
<b>Display</b>	HDMI x 1, DisplayPort x 1, VGA x 1	DVI-D x 1, VGA x 1	DVI-D x 1, VGA x 1, Display Port x 1	DVI-D x 1, VGA x 1, Display Port x 1	VGA x 1, HDMI port x 3
<b>Front I/O Panel</b>	Power Button x 1, Reset Button x 1 Power LED x 1, HDD Active LED x 11 USB3.0 x 2, USB2.0 x 1, Slim optical disk drive x 1	Power Button x 1, Reset Button x 1 Power & HDD LED, USB2.0 x 2	Power Button x 1, Reset Button x 1 Power & HDD LED, USB2.0 x 2 (only for RM-S model)	Power Button x 1, Reset Button x 1 Power & HDD LED, USB2.0 x 2 (only for RM-S model)	Power Button x 1, Reset Button x 1 Power & HDD LED, USB3.0 x 2
<b>Rear I/O Panel</b>	USB3.0 x 2, USB2.0 x 2, RJ-45 Ports x 2 (PoE) HDMI x 1, Display Port x 1, VGA x 1 Audio Jack x 1, PS/2 keyboard/Mouse x 1	VGA x 1, DVI-D x 1, LAN (RJ-45) port x 2 USB 2.0 x 4, COM console x 2, Audio jack(s) x 3	PS/2 x 1 (Keyboard + Mouse), VGA x 1, DVI-D x 1 LAN (RJ-45) port x 2, USB 2.0 x 4 Audio jack(s) x 3, DP x 1	PS/2 x 1 (Keyboard + Mouse), VGA x 1, DVI-D x 1 LAN (RJ-45) port x 2, USB 2.0 x 4 Audio jack(s) x 3, DP x 1	PS/2 x 1 (Keyboard + Mouse), HDMI x 3 DVI-D x 1, LAN (RJ-45) port x 2, USB 2.0 x 4 Audio jack(s) x 3
<b>Operating Temperature</b>	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)	32°F ~ 104°F (0°C ~ 40°C)
<b>Storage Temperature</b>	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)	-4°F ~ 140°F (-20°C ~ 60°C)
<b>Storage Humidity</b>	10%~80% @40°C; non-condensing	10%~80% @40°C; non-condensing	10%~80% @40°C; non-condensing	10%~80% @40°C; non-condensing	10%~80% @40°C; non-condensing
<b>Vibration</b>	0.5g rms/5~500 Hz/operation (2.5" HDD) 1.5g rms/5~500 Hz/non operation	0.5g rms/5~500 Hz/operation (2.5" HDD) 1.5g rms/5~500 Hz/non operation	0.2 g rms/10~200 Hz/operation (2.5" HDD) 1.5g rms/5~500 Hz/non operation	0.2g rms/10~100 Hz/operation (2.5" HDD) 1.5g rms/5~500 Hz/non operation	0.3g rms/5~500 Hz/operation (2.5" HDD) 1.5g rms/5~500 Hz/non operation
<b>Shock</b>	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non operation	10G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non operation	—	—	4G peak acceleration (11 m sec. duration), operation 20G peak acceleration (11 m sec. duration), non operation
<b>Certification</b>	CE/FCC Class A	CE/FCC Class A, CCC	CE/FCC Class A, CCC	CE/FCC Class A, CCC	CE/FCC Class A, CCC
<b>Dimension</b>	19.02" x 25" x 7.01" (483mm x 635mm x 178mm)	7.87" x 11.93" x 9.84" (200mm x 303mm x 250mm)	19.41" x 16.61" x 3.46" (493mm x 422mm x 88mm)	25.98" x 16.93" x 3.46" (660mm x 430mm x 88mm)	10.83" x 8.07" x 11.81" (275mm x 205mm x 300mm)
<b>Gross Weight</b>	33 lb (15 kg)	19.8 lb (9 kg)	26.4 lb (12 kg)	28.7 lb (13 kg)	22 lb (10 kg)
<b>Swappable HDD Tray</b>	3.5" x 12, 2.5" x 1	3.5" or 2.5" x 4	—	3.5" SATA HDD x 8	3.5" x 5
<b>Internal System Bay</b>	—	SATA DOM (optional)	2.5" HDD x 1	2.5" HDD x 1	3.5" HDD x 1
<b>Note</b>	Slim DVD (optional)	—	—	—	—

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