

# Expert In Protecting Your Interests

## M6236 Rackmount Enterprise NVR Series

As GVD's Enterprise NVR, the M6236 is the turnkey product with ready-to-use hardware and software. Powered by HD NVR, GVD's proprietary NVR managing software, to deliver powerful IP video surveillance. The M6236 is designed to work with GVD's central management software, CMS and VMX Manager, to form a comprehensive video management system with the control center.

M6236 NVR has the license of 64, 96 or 128 channels for you to opt for. It goes with 36 pieces of 3.5" HDD/SSD, with capacity up to 216TB, And the configuration of RAID 0,1,5, or 6 can help you safeguard the video data while the LSI RAID card can boost the data transmission up to 380 Mbps. The use of a redundant power unit on the other hand ensures the NVR will continue to function if one of the power units stops working.





## Product Highlights

### Software Highlights

#### 1) Powerful Event Settings

The HD NVR Manager features a Rule Wizard for users to define the conditions to form an event that launches alarms. A slew of system conditions, camera conditions and device conditions are available for users to include, with a variety of sophisticated actions for the NVR to launch an alarm.

#### 2) Modbus

The NVR supports Modbus, the most popular serial-communication protocol widely-used by Building Automation. With the support, you need not invest extra effort in your engineering work to quickly integrate your video system with a 3-rd party system such as an access control system which includes door switches, door alarms, and so on.

#### 3) Time Sector Engine

Unlike the conventional NVRs with a centralized database, the NVR has adopted an exclusive TSE (Time Sector Engine) to handle high bandwidth throughput and to deter latency for massive HD video recording and superb live video display.

#### 4) Region of Interest

The HD NVR Manager features ROI (Region of Interest), which takes advantage of ePTZ for non-mechanic cameras to digitally perform PTZ. Use ROI to get the extreme close-up of a small portion of a high-resolution video without losing the high degree of sharpness. And ROIs can be saved with video patterns to facilitate your video surveillance.

#### 5) Dual Codec & Sub Channel

For a camera capable of transmitting one or two sub streams, the HD NVR Manager applies "multiple video streams" to send the lower-profile sub stream over a congested network. And the sub stream can be recorded and stored in reduced size of storage. The NVR also supports the cameras with dual codec. Different compressions are available for video live view, playback and recording.

#### 6) Optimization of Video Display

The HD NVR Manager features a collection of video "patterns" to deliver flexible video display. A "pattern" is an onscreen grid with each division in it streaming an individual video, live or recorded, or showing a graphic file such as a floor plan. The featured patterns are provided with various layouts to better meet your needs. Four video playing speeds are provided with the patterns to overcome limited network bandwidth and to optimize CPU consumption.

#### 7) Optimization of Video Quality

To boost system performance and video quality, the HD NVR Manager presents Adaptive Video Streams for the cameras capable of sub-streams to adjust the quality of video streams by detecting the real-time network bandwidth and the size of the viewer trying to access. Also featured is the Turbo Mode, a mode to apply when a larger amount of videos are being streamed in one pattern. The mode will play all videos in full speed. However only the selected video will be played in the original resolution; the others will be played in reduced resolution.

#### 8) Video Content Analysis & Powerful Search

The HD NVR Manager features sophisticated Video Content Analysis including VMD (Video Motion Detection), E-Fence, and People Counting. Powerful event settings is provided along for users to define an interested VCA event to trigger alarms. And powerful search is also there to let users search for an event of E-Fence, People Counting, Missing Object, Foreign Object, or ATM/POS transaction.





## Product Highlights

### System Highlights

#### 1) Highly Scalable

To answer your need for increased data throughput and scalability across multiple sites, the NVR is made for easy scale-up. For example you can connect a **C5002 Directory Server** and a **E300 VMS Manger** to the NVR network to gear up for a **VMS** (Video Management System) or **CMS** (Central Management System). The **VMS** allows 600 to 8,000 channels while the **CMS** supports 64 to 600 channels. The scale-up is easy viable through your freely add-ons of GVD products.

#### 2) Highly Powerful

Exactly as the name advertises, the **M6 Enterprise Rackmount NVR** is a heavyweight to tout maximum 24 hard disk drives to allow 144TB storage. With an extended storage server invested, the capacity can even boost to 288TB. For camera license, the NVR is prebuilt with max. 128 of them for your HD video live-view. If you fuel up the HVR with GVD's **E300** and **C5002**, the system can scale up to **VMS** (Video Management System) to allows up to 5000 cameras. RAID 0, 1, 5, 6 are also featured to safeguard your video data.

#### 3) Dual Watchdogs

The NVR is integrated with a hardware watchdog to monitor continuing system health and a software watchdog to make sure the important programs run properly. Together they deliver a highly reliable system.

#### 4) HD Video on Dual Monitors

The NVR extends the video view onto a secondary display. Max. 80 live video can be viewed on two displays simultaneously in your workstation. In order to handle HD video and massive video data, the NVR takes advantage of the technique such as **TSE** (Time Sector Engine), **ROI**, **Turbo Mode**, **Adaptive Video Streams**, **Playout Control**, **Live Multicast**, sub channels and so on to boost the display performance, even with limited bandwidth.

#### 5) Open Platform

GVD's **HD NVR**, the preinstalled utilities that enable the NVR to deliver IP video surveillance, is provided with an open platform to support a wide variety of megapixel cameras. And the supports for ONVIF Profile S and generic RTSP allow the NVR to run with the most popular cameras in the market.

#### 6) Robust and Modular System

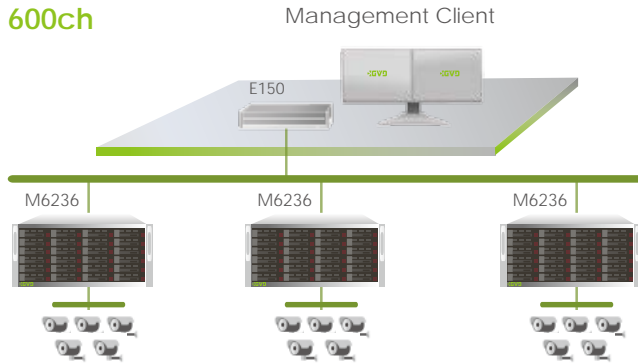
Except for the robust and industrial design for 24x7 non-stop reliable service, the NVR embraces modular mechanical design for your easy hardware setup or maintenance to the system. A rack-like front side is there to accommodate 36 hot-swappable hard disk drives. The system fans inside the chassis come in a few unique "brackets" to make themselves hot-swappable. Also featured for cooling is an **Air Shroud** to concentrate the airflow to maximize fan efficiency. The rear of the NVR is accessible to two power-supply modules that bring power-supply redundancy to the system. They are also hot-swappable. You can remove and reinstall them without powering off the system.

#### 7) High-performance & Reliable Storage

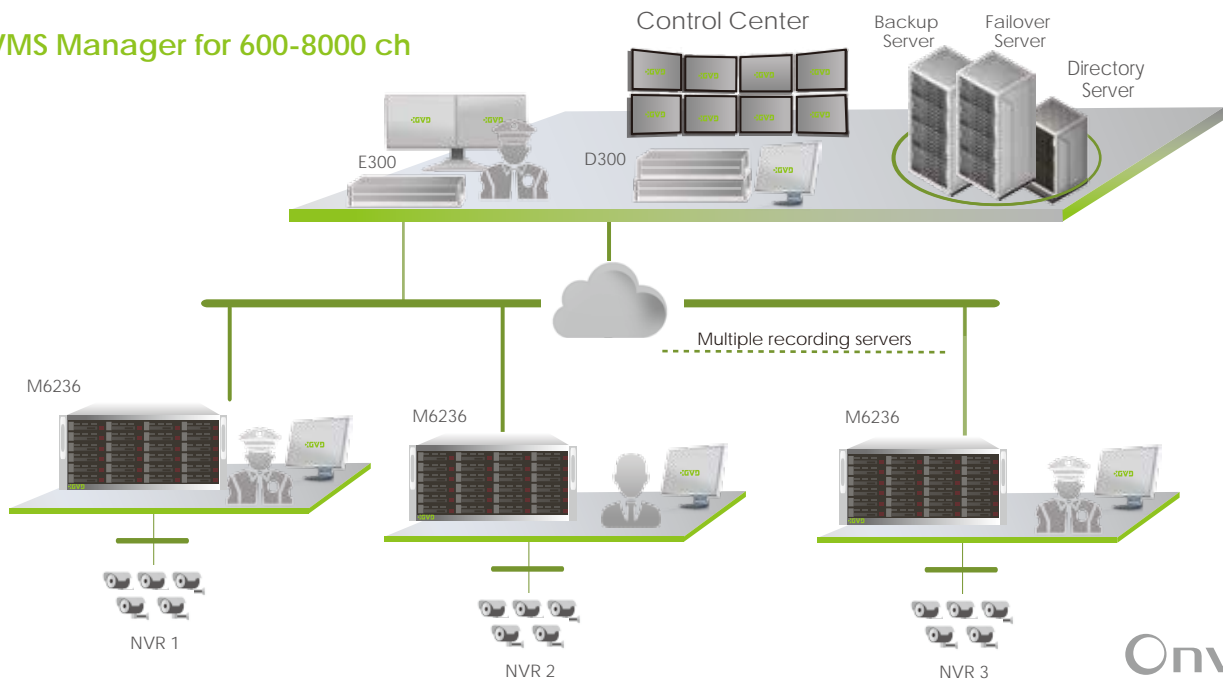
To answer your need for increased data throughput, a RAID card with **LSI Logic SAS IC** and **MegaRAID®** is built in to allow RAID 0, 1, 5, 6, 10, 50, 60 and high-capacity storage applications. It is a cost-effective storage solution using SATA drives. The card also feature SAS interface to bare an SAS connector in the rear of the system. By this connector, the system storage can surge to 360TB if you connect a **S6 Extended Storage Server**.

# System Architecture

## CMS Manager for 16- 600ch

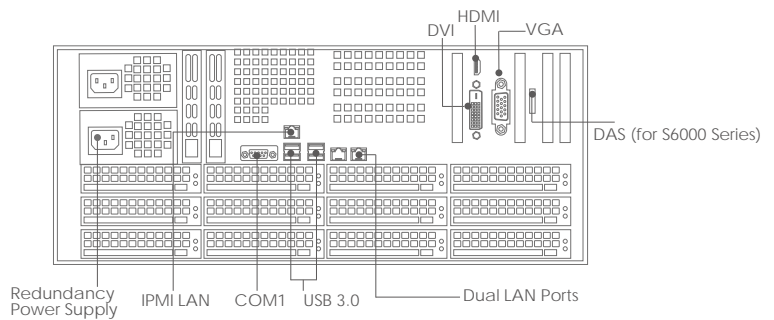
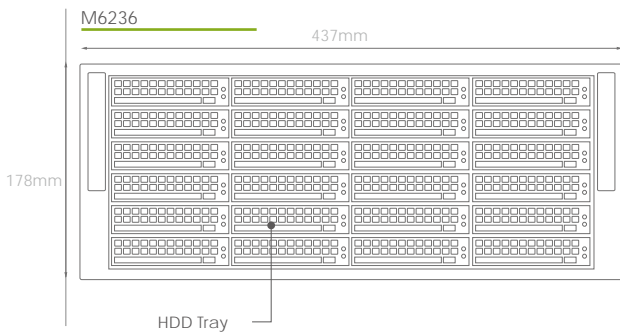


## VMS Manager for 600-8000 ch



**ONVIF**  
Driving network video through global standardization

## Dimensions



# Specification

Product		M6236
System	Item	Rackmount Enterprise NVR
	CPU	E5-2603V4 x 2
	Memory	DDR4-2133 8G x 2
	Operation System (OS)	Windows 7 Professional
	Network Protocols	TCP/IP ,UDP, HTTP, HTTPS, SMTP,SNMPv3, DNS, DHCP, NTP, ARP, ICMP, FTPc, FTPs, DDNS, RTP (RTCP, RTSP), IGMPv3, UPnP, CIFS, NFS, IEC802.1x
	Language	English, Spanish, French, Dutch, Italian, Japanese, Chinese, etc.
	Watchdog	Supports Hardware Watchdog, Software Watchdog
	System Update	Supports NVR Software Update
Video & Recording	IP Camera License	64ch, 96ch, 128ch
	Display Performance	D1@1200fps / 1.3MP@360fps / 2MP@225fps (Turbo Mode - Real Time)
	Recording Throughput	Max.384Mb
	Recording Resolution	D1, 1.3~20 Megapixel
	Video Codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG
	Audio Codec	Two-Way Audio, G. 711, G.726, AAC
	Streaming Type	Unicasting, Multicasting
	Onvif Supports	Onvif 2.2, Profile-S
	Recording Capacity (RAID 0, 1, 5, 6)	216 TB (36x HDDs)
	Extended Storage Capacity	Max. 144TB (1 x S6024)
Software		
Setting	Configurations	Configurations of NVR, Camera, Event, Alarm, Device, DI/DO, etc.
	User Authority	Export Video Clip, PTZ Control, Live View, Playback, Alarm Search, Configuration, Remote System Control, etc.
	Recording Mode	Full Time Recording, Recording by Schedule, Event, Alarm, Motion Detection
E-map	E-map	Mapping Cameras and DI/DO Points, Map Hyperlink
PTZ	PTZ Control	PTZ Control, Preset Point, Patrol, Digital PTZ
Live View	Display Pattern	1, 2, 3, 4, 5, 6, 8, 9, 12, 13, 16, 18, 24, 25, 36, 48, 64
	Viewing Operation	ROI (Region of Interest), Tour
Playback	Video Search	Time, Event, Alarm
	Synchronous Playback	up to 16ch
	Video Playback	Time Slider Control Panel (Forward, Backward, Speed Control, Sync. Playback)
	Video Export	Video Export via USB (Supports .avi and .ava Format), Digital Watermark
IVA	Intelligent Search	Missing Object, Foreign Object
	Intelligent Video Analytics	E-fence, Video Motion Detection
Event	Event Log	Event logs of System, Cameras, User, etc.
Alarm	Alarm Event / Search	Video Loss, Sensor Triggered, HDD Crashed, System Crashed, Abnormal Transaction, E-fence, Video Motion Detection
	Alarm Notification	Pop-up, E-mail, DI/DO, Trigger Recording
	Alarm In / Alarm Out	DI/DO Control, Modbus (Master, Slave)
Remote Client	Web Client	Support Browser IE 8.0
	APP Client	iOS (iPhone, iPad), Android
	VMS/CMS Client	VMS(E300), CMS(E150), Thin Client(E90 - Window XP/7/8)
	Supports Client Numbers	16
POS	POS License	8ch
	POS Integration	Integration with all brands via GVD POS Editor
	Transaction Viewing	Live Viewing with Transaction data
	Search / Playback	Time, Item (Keyword), Price with Transaction data and Video
	Abnormal Transaction	Alarm Rule (Item, Value), Alarm Popup, Alarm Search
Hardware		
Network	Lan Port	Gigabit Lan (RJ45, On-board Teaming) x2
	Ethernet	10/100/1000M Auto Negotiation
Display	Local Display	DVI x 1, VGA x 1, HDMI x 1
	Local Display Resolution	1920x1200
Storage	Hard Disk Drive	SATA
	Hard Disk Trays (Bays)	36 pcs(Hot Swap)
	Storage Capacity	6 TB
	RAID Level	RAID 0, 1, 5, 6
Port	USB Port	USB x 4
	Communication Port	RS232 (DB9) x1 - Rear I/O ; RS232(Header) x1 - Onboard I/O
	Power Voltage	100~240 Vac, 50-60 Hz
Power	Redundancy Power Supply	Support Redundancy Power
	Power Consumption	1280W
Environment	Operation Temperature	5°C ~ 35°C (41°F ~ 95°F)
	Storage Temperature	-40°C ~ 70°C (-40°F ~ 158°F)
	Operation Humidity	8% ~ 90% (N/An-condensing)
	Storage Humidity	5% ~ 95% (N/An-condensing)
Appearance	Dimensions (WxHxD)	437 x178 x 699mm
	Net Weight	41.28 kg
	Chassis	4U Rackmount Chassis with Drawer Slides
Expansion	Keyboard	K205
	POS Box	A0003-POS (RS-232)

\*All specifications are subject to change without notice

Customer Services:

Support: support@gvddigital.com / Sales: sales-all@gvddigital.com



Genius Vision Digital  
www.gvddigital.com