

M6 Series Enterprise NVRs

Defined by GVD as rack-mountable "Enterprise" NVRs, the M6 Series features a number of extra robust NVR models with rich hardware redundancy such as dual power and dual LAN ports to ensure non-stop service in unexpected situations. The series is optimized for enterprise-level, high-capacity storage applications, such as service in a server room.

An NVR alone allows max. 128 channels, with excellent read/write to handle bandwidth up to 384 Mbps for 24 x 7 x 365 recording. For storage, an NVR alone carries 144TB while joining two optional storage servers, \$6024, will boost the storage to 432TB. Also on option is a backup server, GVD's X6024, to keep an insurance copy of your video data.



The M6 Series NVR plays an fundamental part in GVD's large-scale video management platforms. It takes only flexible add-on of GVD products to scale the NVR to these platforms. If you are looking for an extra robust and reliable NVR for enterprise and multi-site projects, look no further than GVD's M6 Series Enterprise NVRs.

- IP camera license of 48, 64, 96 or 128 channels on option
- Built-in with 24, 16 or 12 hot-swappable 3.5" hard disk trays for max. 432TB storage
- Storage server \$6024 on option to extend storage capacity up to 432TB
- RAID 0,1,5,6 for video data protection
- Excellent redundancy with dual power units
- Outstanding write at 384 Mbps for 24x 7x 365 video recording



In order to protect users from data loss, GVD loads the NVR with a SSD-based "virtual hard disk" to help the NVR retrieve the state of the system (and also the software) at a particular time. The application is able to quickly fix serious system failures and OS/software corruption by just a few clicks of yours. This application reduces not only RMA but also the need for on-site support. For users everything just falls back into place so soon.

Extra Robust - Better reliability than most NVRs

The NVR is extra robust with hardware redundancy. It features dual LAN ports and dual power units to prevent unexpected data disconnection and power failure.

RAID setup is also provided to prevent data loss once a hard drive becomes unavailable. Dual watchdogs are integrated for a hardware watchdog to monitor system health and a software watchdog to make sure the important programs run properly. Further equipped are a number of hot-swappable PWM fans capable of changing their speed to make the system heat sinking far more efficient compared to the NVRs with potentiometer fan control.

■ Time Sector Engine (TSE) – Excellent read / write

The NVR has high data transmission rate at max. 384 Mbps, and it handles high bandwidth throughput up to 600 Mbit/s over 1G LAN port, up to 128 IP cameras @ 3Mb/s, and processes video at high speed with 150ms-190ms latency. The NVR gives you the best real-time PTZ control by this exclusive TSE it features.



High Capacity – Maximum storage and cameras

Optimized for enterprise applications, the NVR supports high-density HDDs in a 4U form factor and features 24 hot-swappable 3.5" SAS3/SATA hard drive trays at its front. The storage can further increase to 432TB with the help of two external storage servers, \$6024. The NVR also features optimized HDD signal trace routing and improved HDD tray design to dampen HDD vibrations and to maximize HDD performance. Standing alone the NVR supports max. 128 cameras while a group of stacked-up NVR can support up to 8000 cameras.

Modbus Support & TCP Message – Promise smart buildings and smart cities

The NVR supports Modbus, the popular serial-communication protocol widely-used for the connection of industrial electronic devices. Users of this NVR don't need to invest extra effort and cost to quickly incorporate a 3rd-party system. The NVR also features powerful alarm management that is capable of sending TCP messages to alarm security operators. These advantages make the NVR highly eligible for the promising solutions such as Smart Buildings for DCS (distributed control system) and Smart Cities for CAP (common alerting protocol) such as IBM IOC.

■ Total Solution – Solves multiple problems

Alongside the robust M6 Series is GVD's complete product line to meet the needs of almost every industry for large-scale video management. After scaling the NVR to a centralized video management platform, (VMS), a control center (E300) becomes available, and a video wall (D300), backup server (X6024), failover server (X5016) and integration gateway (C5001) are allowed to the system. Software-wise the NVR also aims at complete service, to feature the abilities to incorporate POS and ATM, to perform video content analysis, to manage alarms and so on.



Software Features

Self-Diagnostics of System Hardware – With enhanced alarms

The system features some facilities to monitor the health of its own hardware. It features a hardware tree with all critical system components on it with their important data called out, such as chipset temperature, fan speed, fan RPM, CPU temperature, CPU voltage, SSD temperature and so on. Powerful alarm management is featured along to warn you when a hardware component goes out of control.



Video Content Analysis – Ensures evidence for law enforcement

The NVR features sophisticated Video Content Analysis, including VMD (Video Motion Detection) that detects moving objects, E-Fence that discerns objects crossing a virtual line by a certain direction while People Counting adds up how many objects have crossed a virtual line. Users can set up an interested VCA event for alarms and retrieve an certain VCA video with the powerful search feature. In some worst cases VCA can provide you with the evidence for law enforcement.

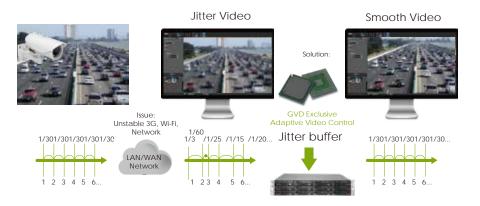
For mission critical projects, a failover server **X5016** is available on option for **M6 Series** NVRs. As a turnkey product with ready-to-use hardware and software, the **X5016** is able to take over an NVR that broke down within less than 45 seconds. The **X5016** has adopted advanced design to allow uninterrupted video recording and seamless video display. The failover solution is extra capable with **N+M** feature for one failover server to watch over up to 10 NVRs.

VMS as M6 Platform -Safeguards your large project

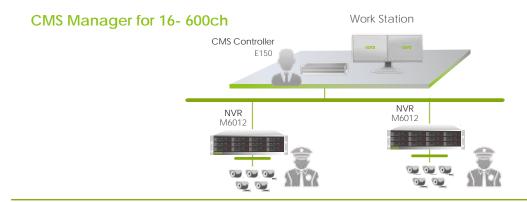
The NVR is based on GVD's HD NVR, a collection of sophisticated utilities to work with the brain (E300) of GVD's centralized video management system called VMS. The VMS may be comprised of a group of NVRs and a number of different kinds of servers to bring max. 8000 cameras under control. A control center solution is available with VMS. Through network connection, an NVR can stay perpetually connected to the control center hundreds of miles away. Clients are available on web browser and portable devices such as iOS/Android phones/tablets. Users can easily view a live or recorded video on the go.

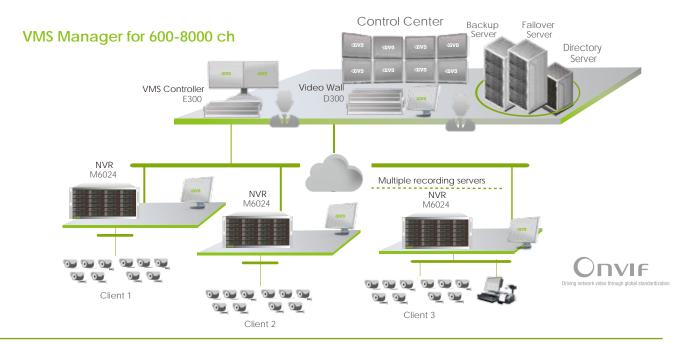
Playout Control – Smoothens video streams in unstable networks

It is quite often to see the quality of streamed media suffer from network delays. The NVR features Playout Control, a technique that adopts dynamic buffer size to tolerate poor network conditions, whether 3G or WiFi.

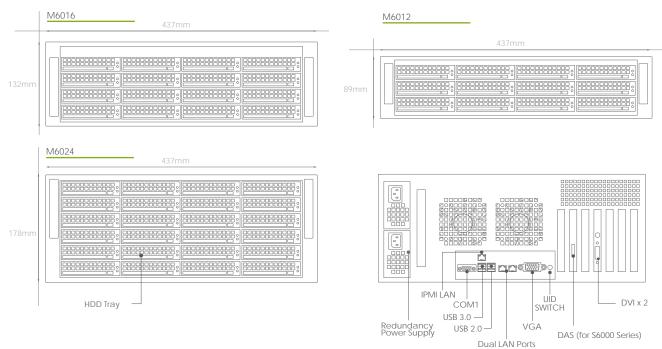


System Architecture





Dimensions



Specification

Product		M6024	M6016	M6012	
System	Item	Rackmount Enterprise N\	/R		
	CPU	Intel® Xeon® E3-1225 V3			
	Memory (OS)	DDR3-1333 8G			
	Operation System (OS) Network Protocols	Windows 7 Embedded	SMID SNIMDW2 DNIS DUCE	NITO ADD ICMD ETDO	
	Network Protocois	TCP/IP, UDP, HTTP, HTTPs, SMTP, SNMPv3, DNS, DHCP, NTP, ARP, ICMP, FTPC, F			
	Language	DDNS, RTP (RTCP, RTSP), IGMPv3, UPnP, CIFS, NFS, IEC802.1x English, Spanish, French, Dutch, Italian, Japanese, Chinese, etc.			
	Watchdog	Supports Hardware Watchdog, Software Watchdog			
	System Update	Supports NVR Software Update			
	Certification	CB / CE / FCC / VCCI	<u> </u>		
Video & Recording	IP Camera License	64ch, 96ch, 128ch	64ch, 96ch	48ch, 64ch	
	Local Video Display Frame Rate	D1@1200fps			
	Live Video Stream Output Number	144	112	80	
	Video Recording Rate	Max.384Mb			
	Recording Resolution	D1, 1.3~20 Megapixel			
	Video Codec	H.264 High Profile, MPEG	4, 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)	144 TB (24x HDDs)	96 TB (16x HDDs)	72 TB (12x HDDs)	
	Extended Storage Capacity	Max. 288 TB (2 x S6024)			
oftware					
Setting	Configurations	Configurations of NVR, C	amera, Event, Alarm, Dev	rice, DI/DO, etc.	
3	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			
-map	E-map	Mapping Cameras and I	DI/DO Points, Map Hyperli	nk	
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		(Forward, Backward, Spe		
	Video Export	Video Export via USB (Supports .avi and .ava Format), Digital Watermark			
VCA	Intelligent Search	Missing Object, Foreign C	-		
	Intelligent Video Analytics	E-fence, Video Motion Detection			
event	Event Log	Event logs of System, Ca		Crashed Abnormal	
Alarm	Alarm Event / Search	Video Loss, Sensor Triggered, HDD Crashed, System Crashed, Abnormal			
	Alarm Notification	Transaction, E-fence, Video Motion Detection Pop-up, E-mail, DI/DO, Trigger Recording			
	Alarm In / Alarm Out	DI/DO Control, Modbus (
Remote Client	Web Client	Support Browser IE 8.0	, waster, siave,		
	APP Client	iOS (iPhone, iPad), Andro	pid		
	VMS/CMS Client		hin Client(E90 - Window XF	P/7/8)	
	Supports Client Numbers	16			
POS	POS License	8ch			
	POS Integration	Integration with all branc	ls via GVD POS Editor		
	Transaction Viewing	Live Viewing with Transaction data			
	Search / Playback	Time, Item (Keyword), Pri	Time, Item (Keyword), Price with Transaction data and Video		
	Abnormal Transaction	Alarm Rule (Item, Value), Alarm Popup, Alarm Search			
lardware					
Vetwork	Lan Port	Gigabit Lan (RJ45, On-bo	pard Teaming) x2		
Vetwork	Lan Port Ethernet	Gigabit Lan (RJ45, On-bo			
	Ethernet	Gigabit Lan (RJ45, On-bo 10/100/1000M Auto Nego DVI-lx 2			
	Ethernet Local Display	10/100/1000M Auto Neg			
Display	Ethernet	10/100/1000M Auto Nego DVI-lx 2			
Display	Ethernet Local Display Local Display Resolution	10/100/1000M Auto Negr DVI-lx 2 1920x1200		12 pcs (Hot Swap)	
Display	Ethernet Local Display Local Display Resolution Hard Disk Drive	10/100/1000M Auto Negr DVI-Ix 2 1920x1200 SATA	otiation	12 pcs (Hot Swap)	
Display	Ethernet Local Display Local Display Resolution Hard Disk Drive Hard Disk Trays (Bays)	10/100/1000M Auto Nego DVI-Ix 2 1920x1200 SATA 24 pcs (Hot Swap)	otiation	12 pcs (Hot Swap)	
Display	Ethernet Local Display Local Display Resolution Hard Disk Drive Hard Disk Trays (Bays) Storage Capacity	10/100/1000M Auto Nego DVI-Ix 2 1920x1200 SATA 24 pcs (Hot Swap) 6 TB	otiation 16 pcs (Hot Swap)	12 pcs (Hot Swap)	
Display	Ethernet Local Display Local Display Resolution Hard Disk Drive Hard Disk Trays (Bays) Storage Capacity RAID Level	10/100/1000M Auto Negro DVI-Ix 2 1920x1200 SATA 24 pcs (Hot Swap) 6 TB RAID 0, 1, 5, 6 USB 2.0 Rear x 2, USB 3.0	otiation 16 pcs (Hot Swap)		
Display	Ethernet Local Display Local Display Resolution Hard Disk Drive Hard Disk Trays (Bays) Storage Capacity RAID Level USB Port	10/100/1000M Auto Negro DVI-Ix 2 1920x1200 SATA 24 pcs (Hot Swap) 6 TB RAID 0, 1, 5, 6 USB 2.0 Rear x 2, USB 3.0	16 pcs (Hot Swap)		
Display Storage Port	Ethernet Local Display Local Display Resolution Hard Disk Drive Hard Disk Trays (Bays) Storage Capacity RAID Level USB Port Communication Port Power Voltage Redundancy Power Supply	10/100/1000M Auto Negro DVI-Ix 2 1920x1200 SATA 24 pcs (Hot Swap) 6 TB RAID 0, 1, 5, 6 USB 2.0 Rear x 2, USB 3.0 (2) RS232 (DB9) x1 - Rear I/O 100~240 Vac, 50-60 Hz Support Redundancy Po	otiation 16 pcs (Hot Swap) x 2, 2.0 x 2 (Back) ; RS232(Header) x1 - Onb	oard I/O	
Display Storage Port	Ethernet Local Display Local Display Resolution Hard Disk Drive Hard Disk Trays (Bays) Storage Capacity RAID Level USB Port Communication Port Power Voltage Redundancy Power Supply Power Consumption	10/100/1000M Auto Negro DVI-Ix 2 1920x1200 SATA 24 pcs (Hot Swap) 6 TB RAID 0, 1, 5, 6 USB 2.0 Rear x 2, USB 3.0 c RS232 (DB9) x1 - Rear I/O 100~240 Vac, 50-60 Hz Support Redundancy Po	16 pcs (Hot Swap) x 2, 2.0 x 2 (Back) ; RS232(Header) x1 - Onb wer 485W	oard I/O	
Display Storage Port	Ethernet Local Display Local Display Resolution Hard Disk Drive Hard Disk Trays (Bays) Storage Capacity RAID Level USB Port Communication Port Power Voltage Redundancy Power Supply Power Consumption Operation Temperature	10/100/1000M Auto Negro DVI-Ix 2 1920x1200 SATA 24 pcs (Hot Swap) 6 TB RAID 0, 1, 5, 6 USB 2.0 Rear x 2, USB 3.0 c RS232 (DB9) x1 - Rear I/O 100~240 Vac, 50-60 Hz Support Redundancy Po 575W 10°C ~ 35°C (41°F ~ 95°F)	16 pcs (Hot Swap) x 2, 2.0 x 2 (Back) ; RS232(Header) x1 - Onb wer 485W 10°C ~ 35°C (41°F ~ 95°F	oard I/O	
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Display Storage Port Power Environment	Ethernet Local Display Local Display Resolution Hard Disk Drive Hard Disk Trays (Bays) Storage Capacity RAID Level USB Port Communication Port Power Voltage Redundancy Power Supply Power Consumption Operation Temperature Storage Temperature Operation Humidity Storage Humidity	10/100/1000M Auto Negro DVI-Ix 2 1920x1200 SATA 24 pcs (Hot Swap) 6 TB RAID 0, 1, 5, 6 USB 2.0 Rear x 2, USB 3.0 c RS232 (DB9) x1 - Rear I/O 100~240 Vac, 50-60 Hz Support Redundancy Po 575W 10°C ~ 35°C (41°F ~ 95°F) -40°C ~ 70°C (-40°F ~ 158 8% ~ 90% (N/An-condens) 5% ~ 95% (N/An-condens)	tiation 16 pcs (Hot Swap) x 2, 2.0 x 2 (Back) ; RS232(Header) x1 - Onb wer 485W 10°C ~ 35°C (41°F ~ 95°F °F) sing)	oard I/O 385W) 10°C ~ 35°C (50°F ~ 9!	
Display Storage Port Power Environment	Ethernet Local Display Local Display Resolution Hard Disk Drive Hard Disk Trays (Bays) Storage Capacity RAID Level USB Port Communication Port Power Voltage Redundancy Power Supply Power Consumption Operation Temperature Storage Temperature Operation Humidity Storage Humidity Dimensions (WxHxD)	10/100/1000M Auto Negro DVI-Ix 2 1920x1200 SATA 24 pcs (Hot Swap) 6 TB RAID 0, 1, 5, 6 USB 2.0 Rear x 2, USB 3.0; RS232 (DB9) x1 - Rear I/O 100~240 Vac, 50-60 Hz Support Redundancy Po 575W 10°C ~ 35°C (41°F ~ 95°F) -40°C ~ 70°C (-40°F ~ 158 8% ~ 90% (N/An-condens) 5% ~ 95% (N/An-condens)	16 pcs (Hot Swap) x 2, 2.0 x 2 (Back) ; RS232(Header) x1 - Onb wer 485W 10°C ~ 35°C (41°F ~ 95°F °F) sing) sing) 437 x 132 x 648mm	oard I/O 385W 10°C ~ 35°C (50°F ~ 99) 437 x 89 x 660mm	
Display Storage Port Environment Appearance	Ethernet Local Display Local Display Resolution Hard Disk Drive Hard Disk Trays (Bays) Storage Capacity RAID Level USB Port Communication Port Power Voltage Redundancy Power Supply Power Consumption Operation Temperature Storage Temperature Operation Humidity Storage Humidity Dimensions (WxHxD) Net Weight	10/100/1000M Auto Negro DVI-Ix 2 1920x1200 SATA 24 pcs (Hot Swap) 6 TB RAID 0, 1, 5, 6 USB 2.0 Rear x 2, USB 3.0 c RS232 (DB9) x1 - Rear I/O 100~240 Vac, 50-60 Hz Support Redundancy Po 575W 10°C ~ 35°C (41°F ~ 95°F) -40°C ~ 70°C (-40°F ~ 158 8% ~ 90% (N/An-condens) 5% ~ 95% (N/An-condens) 437 x 178 x 660mm 34 Kg	16 pcs (Hot Swap) x 2, 2.0 x 2 (Back) ; RS232(Header) x1 - Onb wer 485W 10°C ~ 35°C (41°F ~ 95°F sing) sing) 437 x 132 x 648mm 32.7 Kg	oard I/O 385W 10°C ~ 35°C (50°F ~ 98) 437 x 89 x 660mm 23.6 Kg	
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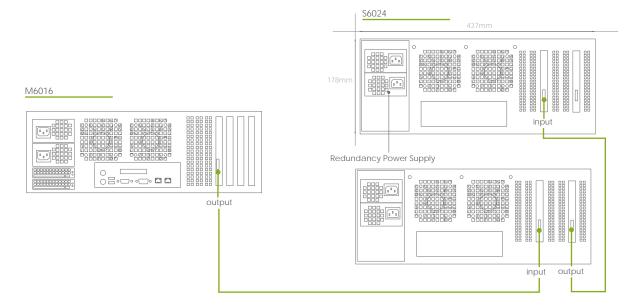




\$6024 Rackmount Extended Storage

GVD's Extended Storage Server S6024 is meant to hook up 144 more terabytes with the M6 Series. Take the highest capacitated model M6024 for example, the S6024 can help it build the storage up to 288 TB. These rack-mountable heavyweights are directly attached to each other by the SAS connectors featured at their rear sides. Together they deliver an optimal solution for the large-scale projects or mission-critical projects that need to be online all the time around the clock. They are your best choice for shopping complexes or large banking business.





Product		S6024
System	Item	Extended Storage (DAS Server)
Storage	Hard Disk Drive	SATA
	Hard Disk Trays (Bays)	24 pcs (Hot Swap)
	Storage Capacity	6 TB
	RAID Level	Host Dependant
	Recording Capacity	144 TB (24x HDDs)
Power	Power Voltage	100~240 Vac, 50-60 Hz
	Redundancy Power Supply	Support Redundancy Power
	Power Consumption	380W
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	437(W)x178(H)x660(D)mm
	Net Weight	34 Kg
	Chassis	4U Rackmount Chassis with Drawer Slides

*All specifications are subject to change without notice

