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## A Whole New VMS IP Platform

[www.gvdigital.com](http://www.gvdigital.com)



# Proven in Mission - Critical Security Worldwide

GVD – The Optimal Video Surveillance Platform



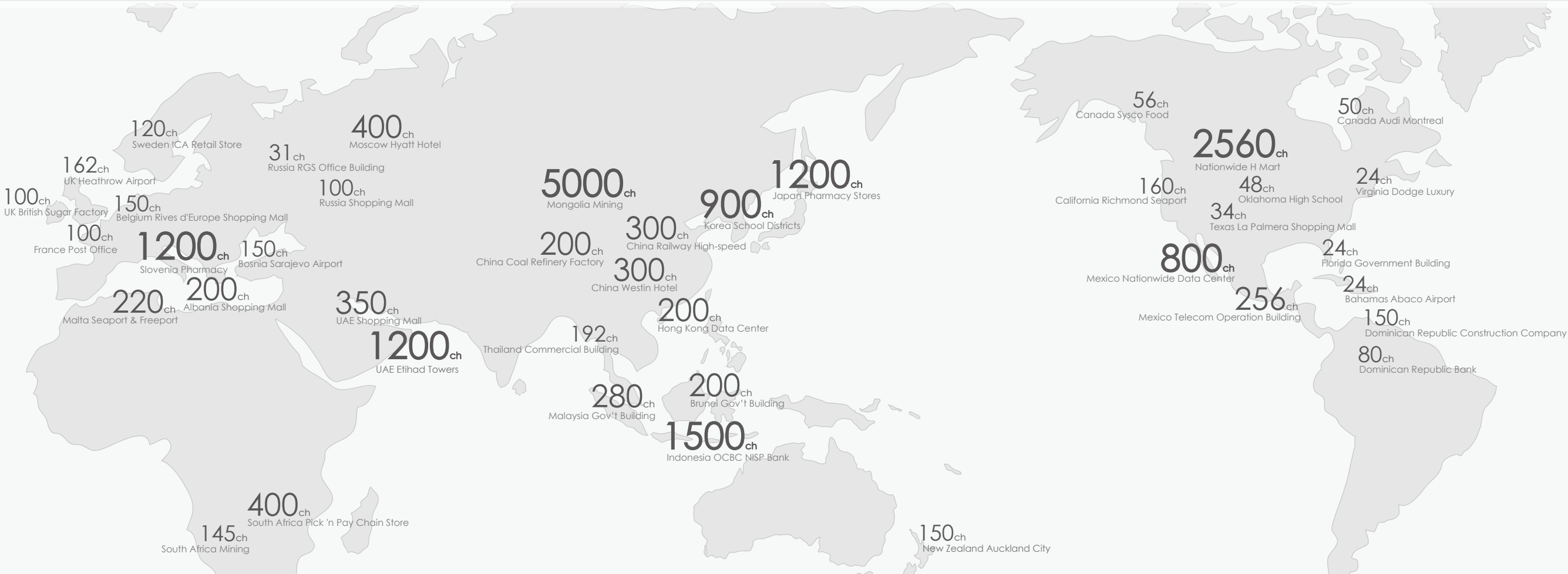
Taiwan - Taipei 101  
GVD NVR with ArecontVision MP  
Cameras upgrade Taipei 101 system to  
robust IP solution



W Hotel Doha  
Video Wall in central control room Seamless  
video management Total storage up to  
800TB



Zara Fashion Store  
GVD NVR + Grundig Cameras protects  
stores and employees



Tunisia - Airbus Factory  
MESSOA Megapixel IP Cameras connected  
to GVD HD NVR brings full protection to the  
world's leading manufacturer of commercial  
jetliners and military airlifters



Hong Kong - Samsonite Stores  
The GVD NVRs protect Samsonite retail stores  
with ADT Megapixel IP Cameras on a 24x7  
Basis.



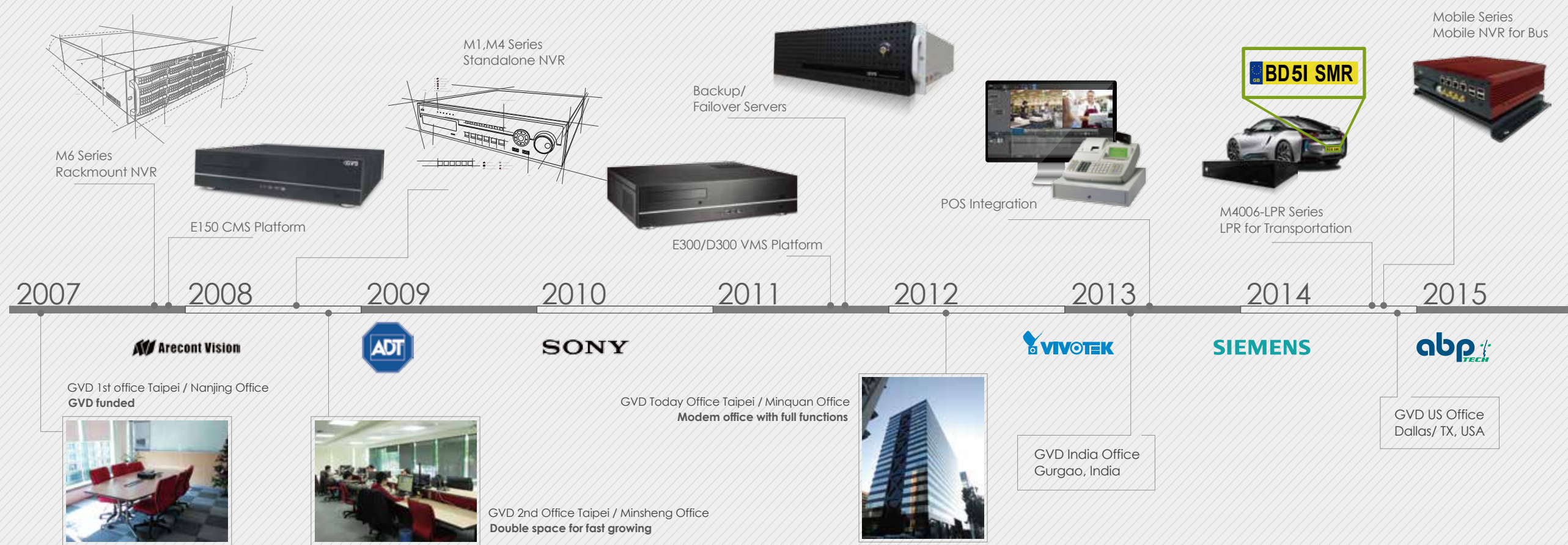
Paris Eiffel Tower  
GVD NVR loaded with Geovision 5M  
fisheye cameras (RTSP integration) & Pelco  
HD cameras test running on the job-site for  
End-User 1-year evaluation.



BNP PARIBAS Banks  
GVD NVR M600 with Pelco Saris, ACTi MP  
Cameras pre-built Modbus IO module  
integrated with alarm systems for a 24x7  
base surveillance monitoring

# GVD : Innovative Design Original for Enterprise

GVD Roadmap



## The Key Factors of GVD's Success

With Team members possessed 11 years in CCTV and 8 years in IP Surveillance experience, covering the state-of-the-art technology on analog, hybrid and IP video fields, GVD Team is leading the top technology in Asia with passion, innovation spirit and high efficiency on designing and developing the complete IP Back-end solution for video surveillance, fulfilling all the requirements of retail, mission-critical enterprise and multiple sites segments.





6 Concepts



Scalable Platforms

**Better Expansion & Flexible Systems**  
GVD offers scalable video platforms that allow easy project scale-up through flexible add-ons GVD product components to suit your needs.



HD Empowerment

**Better Performance & Advanced Software**  
Our unique software has advanced features such as MVP, ROI, Turbo Mode Plus, etc. that offers high performance video recording and display.



Open Platforms

**Better Integration & Full Coverage Integration**  
As an open platform solution provider, GVD Integratable with many third-party systems such as ACS, POS, LPR, Alarm, Fire applications. etc..



Reliable Systems

**Better Cost Saving & Secure Design**  
GVD secure design provides constant video recording and monitoring to ensure the system reliability, and saving cost.



Turnkey Solutions

**Better Efficiency & Easy Installation**  
Turnkey solutions compromise software and hardware to achieve max. performance. Its efficient and robust design also easy to install.



Total Solutions

**Wider Application & Market Leader**  
GVD has complete product line that helps you to accomplish projects in many different fields such as Airport, Casino, Mining, Transportation, Hospital, School, Supermarket, Shopping Mall etc..

The Best Solution for IP Surveillance

Enterprise : 300 - 5,000ch

Governments  
Homeland Security  
City Surveillance  
Airports / Seaports  
Mining, etc.

Multi Sites : 64 - 300ch

Campus  
Hotels  
Banks  
Retail Chain Stores  
Shopping Malls, etc.

Single Site : 4 - 64ch

Banking  
Retailing  
Office Building, etc.



Fully Integrated Solution



ACS



Fire Alarm



Security



BAS



IVA



POS



Tollbooth



LPR

# GVD Total Solutions

Scalable video platforms that allow easy project scale-up through flexible add-ons.  
Products with VMS Platform (300~5000ch) and CMS Platform (64~300ch) that meet your needs.



3 EASY

Easy Installation

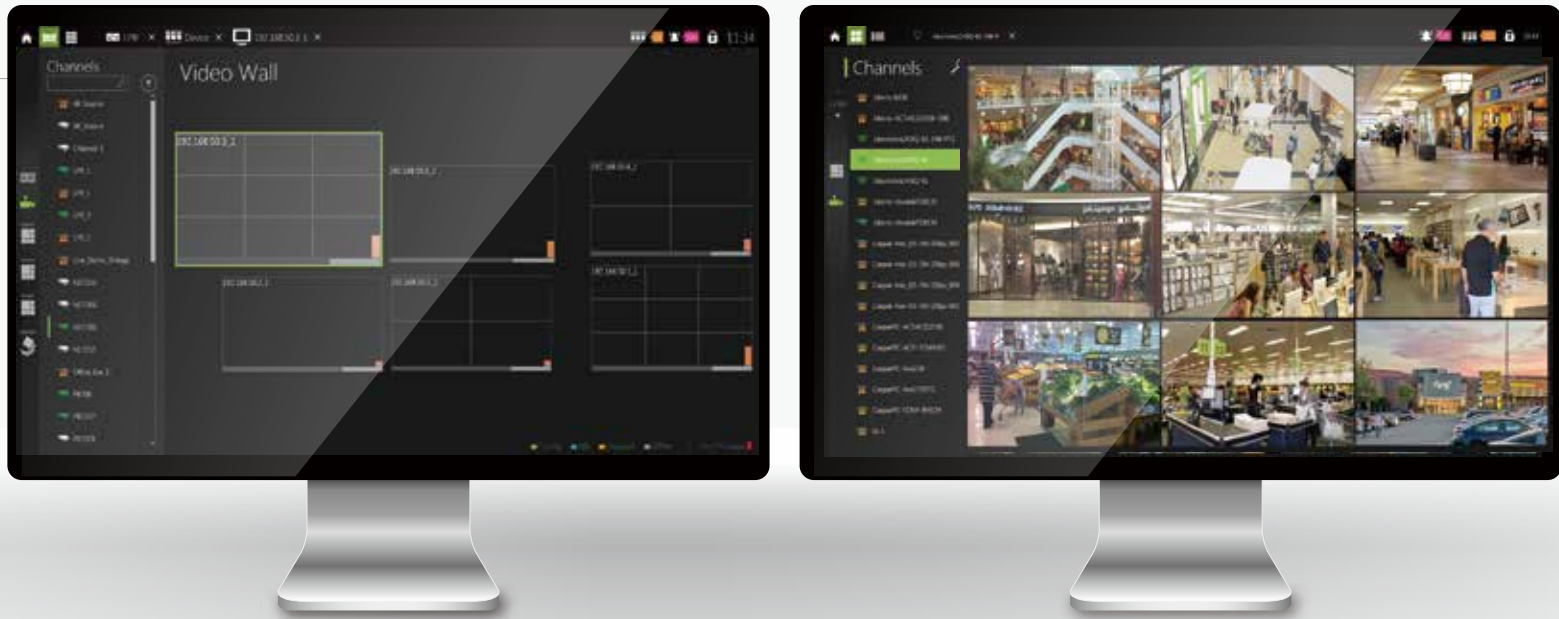
- All Devices can Automatically Sign in to the System (Plug-n-play).

Easy Operation

- Intuitive GUI
- New Intelligent E-map
- Massive Cameras Tag Management
- Seamless Streaming Display
- Video Wall Synchronous Display

Easy Maintenance

- Dual Watchdog (HW/SW)
- Restore to Last Right Setting



VMS Manager



16ch Full HD Real-time Display on Dual Monitors

GVD advanced software features MVP, ROI, Turbo Mode Plus functions to offer powerful performance video recording and display for 16ch Full HD real-time display on dual monitors.



Smooth Video Rendering with Exclusive Video Playout Control

GVD exclusive video playout control technology enables smooth video rendering for security evidence, regardless unstable network conditions. It also helps users to control PTZ cameras with ease.



Full Alarm Integration and Management

Alarm notification by Pop-up, E-mail, DI/DO (Modbus Support) when video loss, sensor triggered, HDD crashed, system crashed, abnormal transaction, e-fence, video motion detection, etc.



Supports Onvif Profile S & Onvif

- GVD PLUS 1:** GVD offers better and more flexible PTZ control than ONVIF
- GVD PLUS 2:** GVD advanced Motion Detection integration surpasses ONVIF
- GVD PLUS 3:** GVD provides Generic RTSP function so users can get video streaming even without Onvif



# Vertical Market I : Mission-critical / Enterprise

Governments . Homeland Security . City Surveillance . Airports / Seaports . Mining

FEATURES



MARKETS



MARKETS

## USA – Richmond Seaport

GVD HD NVR Enterprise Solution guards the bay-area with over 100 AXIS cameras and Object Video analytic video system integration



### 3rd PARTY DEVICE INTEGRATION

Achieves easy ACS / LPR / IVA / POS integration

### RELIABLE REDUNDANT POWER SUPPLY EMBEDDED SYSTEM

Ensures non-stop power support and brings out a read-only virus-free system

## UAE - Abu Dhabi Etihad Towers

Over 1000 SONY cameras connected to GVD HD NVR Enterprise Solution with Failover and Extended Storage Servers



### COMPLETE FAILOVER, BACKUP, EXTENDED STORAGE SOLUTION

Provides powerful accessories for mission-critical projects with triple protection

### VMS/CMS PLATFORM

Enables real-time monitoring/configuring in user-friendly central management system

Highlight

Enterprise NVR Server M6 Series  
Rackmount NVR for mission-critical installation up to 128ch@2Mbits

Extended Storage S6 Series / Failover Server X5 Series / Backup Server X6 Series  
Rackmount accessory servers for storage expansion/failover/data backup purpose

Integration Gateway C5 Series  
Project-based integration platform enhances multiple subsystems in one large system

VMS E300  
Virtual Matrix system to build up Video Wall in central control room

GVD Enterprise Segment

# Vertical Market II : Multiple Sites / Retail Business

Campus . Hotels . Banks . Retail Chain Stores . Shopping Malls

MARKETS



MARKETS



VMS



## RELIABLE DESIGN SELF-DIAGNOSTIC DESIGN

Brings out a read-only virus-free system for high stability to enable hardware health check and alerts

## China - Luxury Stores

GVD HD NVR Standalone Solution  
secures 40 fashion stores in Hong Kong



## AI-IN-ONE NVR STANDALONE WITH POS INTEGRATION

includes triplex video functions (live view, recording, playback) to make the best NVR for retail business

## PANORAMIC (FISHEYE) CAMERA INTEGRATION

Achieves effectively and quick browse with easy dewarping to target area for real-time monitoring

## FLEXIBLE MULTIPLE VIDEO PROFILES

Supports multi-streams viewing and recording benefit for high quality video viewing over limited Internet

## Europe - DM- Drogerie Markt Chain Stores

GVD NVR software with Arecont Vision cameras brings full protection to the largest pharmacy chain store in Europe



Highlight

VMS E300  
Virtual Matrix system to manage Video Wall in central control room

CMS E150  
Central management system for remote monitoring and configuring

Super NVR Standalone M4 Series  
Supports dual monitor for real-time live viewing

Retail All-in-one NVR M3004  
NVR Standalone supports dual monitors

Mini All-in-one NVR M95  
NVR Standalone with mini size supports 2 HDDs (1TB 2.5" storage) for small installation



# E300/D300 VMS Manager and Video Wall Decoder

Meet the Whole New Generation of Large Scale Video Management System

## E300 / D300

GVD E300, a centralized and scalable platform, manages up to 5,000ch cameras that allows easy project scale-up through flexible add-ons GVD product components as Video Wall Decoders, NVRs, Mobile NVRs, Backup Servers, Failover Servers, Directory Servers, LPR Servers, and Integration Gateways. GVD E300 is reliable and suitable for large scale project, including governments, homeland security, city surveillance, airports, seaports, mining, offices, factories, campuses, hotels, banks, etc..



### Manages over 5,000 Cameras and User Defined Tags

GVD E300 can handle 300~5,000 channel video via different kinds of NVR as enterprise HD NVR, standalone NVR, etc. It's simple to use defined tags to manage massive cameras.



### Video Wall Synchronous Display

Video operations directly apply to remote video wall, for example: drag and drop to view live video, Playback, change video layout, Start/Stop video touring, etc..



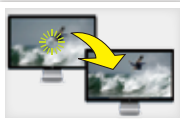
### Seamless Video Display without Any Settings

GVD E300 supports seamless video display that automatically switches devices to take available video source without any settings.



### Fully Integrated for Total Solutions

GVD E300, an open platform, is Integratable with many third-party systems such as ACS, POS, LPR, Alarm, fire applications. etc..



### Smooth Video with Exclusive Video Playout Control

Built-in Exclusive Video Playout Control technology that enables smooth video and limiting of video quality degradation for different situations like uniform Camera Time Stamp, Unstable Network Conditions.



### Powerful Alarm Management

Alarm notification by Pop-up, E-mail, DI/DO (Modbus Support) when video loss, sensor triggered, HDD crashed, system crashed, abnormal transaction, e-fence, video motion detection, etc.

D300



E300



K1000

## Key Feature

- Enterprise & Multi-site Design for Large Scale Platform (300~5,000ch)
- Supports Backup / Failover Servers and Fully Integration with 3-party
- Centralized to Manage up to 5,000ch Cameras
- Supports 40 Screen Video Wall and Synchronous Display with D300
- Seamless Video Display without any settings
- Supports Multicast and Plug-n-play

GVD VMS Manager

## Hardware Specification

Spec / Model		E300	D300
System	Item	VMS Manager	Video Wall Decoder
	CPU	Core i7-2600	
	Operating System (OS)	Windows 7 Embedded	
	LAN Port	Gigabit LAN (RJ45, On-board Teaming) x2	
	Watchdog	Supports Hardware Watchdog, Software Watchdog	
	Keyboard	K1000	
	Management Device	NVRs, Video Wall, Failover/ Backup Server, Directory Server, Integration Gateway	na
	Configurations	Configurations of GPS, Map, Video Buffering, SDP, Door, Accounts, Video Wall, SCM, LPR, Multicast, Patterns, Backup, Tags, Station, Local Settings, etc.	na
Video	User Authority	Supported	na
	IP Camera License	5000ch	
	Local Display Resolution / FPS@D1	D1~ 20MP / 1740 fps	
	Display Resolution	D1, 1.3~20 Megapixel	
	Video Codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG	
	Streaming Type	Unicasting, Multicasting	
Video Port		VGAx1, HDMIx1, DVI-Dx1 (Support Two Video Outputs Simultaneously)	

\*All specifications are subject to change without notice

# E150 CMS Manager

Video Central Management System for Enterprise and Multi-site



E150

## E150

GVD E150, a centralized platform, manages up to 300ch cameras and displays 72ch real-time video on dual monitor. It supports 16ch synchronous playback, multicast, video wall, tour, ROI, VMD, IVA, e-map, event, alarm, notification, digital watermark video export functions which allow user to easily manage and control surveillance system. GVD E150 is reliable and suitable for large scale project, including government buildings, offices, factories, campuses, hotels, banks, retail chain stores, shopping malls, etc..

## Key Features

- Centralized Video Management and NVRs Configuration
- Enterprise & Multi-site Design for Middle Scale Platform (64~300ch)
- Centralized to Manage up to 300ch Cameras and 15 NVRs
- 72 ch Real-time Display on Dual Monitors
- Centralized Video Wall Solution
- Alarm Notification by Pop-up, E-mail, DI/DO, Trigger Recording



### Manages over 300ch Cameras

GVD E150 can handle 64~300 channel video via different kinds of NVR as enterprise HD NVR, standalone NVR, etc.



### 72 Real-time Channels

GVD E150 is so powerful to deliver 72 live video channels on dual monitors, which are scalable up to 16 monitors at the most.



### HD Empowerment

GVD unique software has advanced features such as MVP, ROI, Turbo Mode Plus, etc. that offers high performance video display.



### Smooth Video with Exclusive Video Playout Control

Built-in Exclusive Video Playout Control technology that enables smooth video and limiting of video quality degradation for different situations like uniform Camera Time Stamp, Unstable Network Conditions.



### IVA Functions and POS management

GVD E150 manages all different POS machines via NVRs, that's suitable for retail chain stores. The CMS manager also combines with IVA functions such as MVP, E-fences, Missing object, foreign object for more analyses.



### Powerful Alarm Management

Alarm notification by Pop-up, E-mail, DI/DO (Modbus Support) when video loss, sensor triggered, HDD crashed, system crashed, abnormal transaction, e-fence, video motion detection, etc.

## Hardware Specification

Spec / Model		E150
System	Item	CMS Manager
	CPU	Core i7-2600
	Operating System (OS)	Windows 7 Embedded
	LAN Port	Gigabit LAN (RJ45, On-board Teaming) x2
	Watchdog	Supports Hardware Watchdog, Software Watchdog
	Keyboard	Virtual Keyboard
	Management Device	NVRs
	Configurations	Configurations of NVR, Camera, Event, Alarm, Device, DI/DO, etc.
Video	User Authority	Export Video Clip, PTZ Control, Live View, Playback, Alarm Search, Configuration, Remote System Control, etc.
	IP Camera License	1024ch
	Local Display Resolution / FPS@D1	D1~ 20MP / 2160 fps
	Display Resolution	D1, 1.3~20 Megapixel
	Video Codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG
	Streaming Type	Unicasting, Multicasting
	Video Port	VGAX1, HDMx1, DVI-Dx1 (Support Two Video Outputs Simultaneously)

\*All specifications are subject to change without notice

GVD CMS Manager

# M6 Series – Enterprise Rackmount HD NVR Server

High Recording Performance up to 128ch @ 3Mb/s RAID 5 Support



## Vertical Market

Government . City Surveillance . Transportation . Financial Building . Mining . Factory . Shopping Mall

## Key Feature

- Prebuilt 64/ 96/ 128ch IP Camera Licenses with up to 24/ 16/ 12 HDDs
- Robust and Industrial-suited Design for 24 Hour Permanent Operation
- 128ch Full HD Real-time Recording (Max. 384Mb)
- Maximum Total 288 TB with 1 Set of Extended Storage Capacity, Supports Raid 0, 1, 5, 6
- Redundant Design with Dual LAN Ports, Redundant Power, Backup/Failover Servers
- On-board Hardware Watchdog



### Redundancy Power Supply Hardware Watchdog & Self-diagnostic

Redundancy triple protection for mission-critical, enterprise solutions



S6 Extended Storage, X5 Failover Server, X6 Backup Server, E300 VMS Platform, E150 CMS Platform

## Hardware Specification

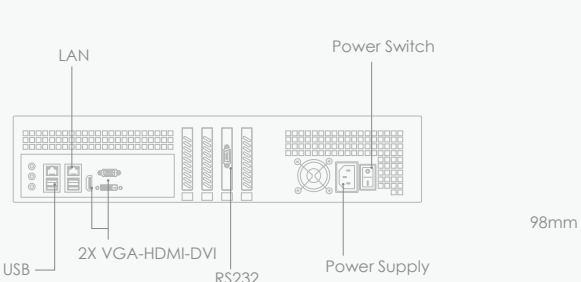
Spec / Model		M6012	M6016	M6024
System	Item	Rackmount Enterprise NVR		
	CPU	Xeon® E3-1220		Xeon® E3-1240
	Operating System (OS)	Windows 7 Embedded		
	LAN Port	Gigabit LAN (RJ45, On-board Teaming) x2, Dedicated IPMI x1		
	Redundant Power Supply	Support Redundant Power		
Video	IP Camera License	48ch, 64ch	64ch, 96ch	64ch, 96ch, 128ch
	Local Display Resolution / FPS@D1	D1~ 20MP / 480 fps		
	Recording Throughput	Max.384Mb		
	Recording Resolution	D1, 1.3~20 Megapixel		
	Video Codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG		
	Video Port	DVI-Ix2		
Storage	Recording Capacity	72 TB (12x HDDs)	96 TB (16x HDDs)	144 TB (24x HDDs)
	Extended Storage Capacity	Max. 144 TB (1x S6024)		
	Hard Disk Drive	SATA		
	Hard Disk Trays (Bays)	12 pcs (Hot Swap)	16 pcs (Hot Swap)	24 pcs (Hot Swap)
	Storage Capacity	6 TB		
	RAID Level	RAID 0, 1, 5, 6		

\*All specifications are subject to change without notice



# M4 Series – Super Standalone NVR with Dual Monitor Display

Best Performance for Recording and Local Display as Standalone NVR



## M4 Series

- Prebuilt 16/ 24/ 32/ 48/ 64ch IP Camera Licenses with up to 6/8 HDDs
- Featuring Embedded Windows 7 and POS Software
- 64ch Full HD Real-time Recording (Max. 288Mb)
- 17ch Full HD Real-time Display on Dual Monitors
- Total 36/48 TB with 8HDDs, Supports 6/8 TB Disk Drive Raid 0, 1, 5, 6 (Option)
- On-board Hardware Watchdog



## Vertical Market

Government . City Surveillance . Transportation . Financial Building . Mining . Factory . Shopping Mall



### Default Dual Monitor Support

Multi-functional real-time video monitoring (one screen for live viewing, and the other for alarm pop-up or PTZ control)



### Easy HDD Installation and Replacement Design

6/8 HDD placed in two special inner cases for system installer/end-user to install/replace with ease

## Hardware Specification

Spec / Model		M4006	M4008
System	Item	Super Standalone NVR	
	CPU	Core i5-2400 / i7-2600*	i5-2400 / Pentium G2120
	Operating System (OS)	Windows 7 Embedded	
	LAN Port	Gigabit LAN (RJ45) x2	
Video	IP Camera License	16ch, 24ch, 32ch, 48ch	24ch, 32ch, 48ch, 64ch
	Local Display Resolution / FPS@D1	1200 fps / 960 fps	960 fps / 480 fps
	Recording Throughput	Max. 288Mb	
	Recording Resolution	D1, 1.3~20 Megapixel	
	Video Codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG	
	Video Port	VGAx1, HDMIx1, DVI-Dx1 (Support Two Video Outputs Simultaneously)	VGAx1, HDMIx2 (Support Two Video Outputs Simultaneously)
Storage	Recording Capacity	36 TB (6x HDDs)	48 TB (8x HDDs)
	Hard Disk Drive	SATA	
	Hard Disk Trays (Bays)	6 pcs	8 pcs
	Storage Capacity	6 TB	
	RAID Level	RAID 0, 1, 5, 6 (Option)	

\*Available on M4006-IR only.  
All specifications are subject to change without notice.

M3004 M95 – All-in-one Retail NVR

Standalone NVR with Local Display and Dual Monitor Functions



Vertical Market

Chain Store . Business . Banking . Supermarket . Hypermarket .  
School . Shopping Mall . Multi-site

M3004

- Prebuilt 12/ 16/ 24/ 32ch IP Camera Licenses with up to 4 HDDs
- Featuring Embedded Windows 7 and POS Software
- 32ch Full HD Real-time Recording (Max. 192Mb), optional Built-in RAID support
- 13ch Full HD Real-time Display on Dual Monitors
- Total 16TB with 4HDDs, Supports 4TB Disk Drive, Hard Disk Tray Design
- On-board Hardware Watchdog



M95

- Prebuilt 4/ 8/ 12ch IP Camera Licenses with up to 2 HDDs
- Featuring Embedded Windows 7 and POS Software
- 12ch Full HD Real-time Recording (Max. 72Mb)
- 5ch Full HD Real-time Display on Dual Monitors
- Total 4TB with 1HDDs(3.5") or 2TB with 2HDDs(2.25")
- On-board Hardware Watchdog

GVD Standalone NVR

Hardware Specification

Spec / Model		M3004	M95
System	Item	Standalone NVR	Mini Standalone NVR
	CPU	Core i3-3220	Celeron G1840
	Operating System (OS)	Windows 7 Embedded	
	LAN Port	Gigabit LAN (RJ45) x2	
Video	IP Camera License	12ch, 16ch, 24ch, 32ch	4ch, 8ch, 12ch
	Local Display Resolution / FPS@D1	D1~ 20MP / 810 fps	D1~ 20MP / 270 fps
	Recording Throughput	Max. 192Mb	Max. 72Mb
	Recording Resolution	D1, 1.3~20 Megapixel	
	Video Codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG	
Storage	Video Port	VGAX1, HDMIx2	HDMI x1, Display Port x1
	Recording Capacity	16 TB (4xHDDs)	2 TB (2pcs) or 4 TB(1pcs)
	Hard Disk Drive	SATA	
	Hard Disk Trays (Bays)	4 pcs	2 pcs (2.25") or 1 pcs (3.5")
	Storage Capacity	4 TB	1 TB (2.25") or 4 TB (3.5")
	RAID Level	**RAID 0,1,5	-

\*\* only for M3004-IR

\*All specifications are subject to change without notice

# S6 / X5 / X6 Series – Enterprise Rackmount Accessory Server

## Extended Storage/ Failover / Backup Server

### X6 Series Backup Server

- Enterprise Rackmount Backup Server
- Backups 128ch Video Recording with 24/ 16HDDs (144/ 96TB)
- Supports 6TB Disk Drive and JBOD, Raid 0, 1, 5, 6
- Maximum Total 576TB with 3 Sets of Extended Storage Capacity (S6024)
- Redundant Design with Dual LAN Ports and Redundant Power
- Hardware Watchdog, Self-Diagnostic
- Compatible with VMS Platform

### Vertical Market

Government . Homeland Security . Transportation . Financial Building . Mining . Factory . Shopping Mall . Multi-site

### Key Feature

- Best for large scale installation from 300 to 5000ch storage up to 576TB (hot-swap HDD with RAID5 support)
- Support large data throughput up to 256Mb
- Server class rack-mount chassis with redundant power supply and dual-Giga high speed network ports
- Embedded the exclusive Time Sector Engine (TSE) for best video read-write performance on HDDs
- Compatible with GVD VMS / CMS for central management system up to 5000 IP cameras

### S6 Series Extended Storage DAS Server

- Rackmount Extended Storage Server
- Total 144TB with 24HDDs, Supports 6TB Disk Drive and JBOD, Raid 0, 1, 5, 6
- Redundant Power Supply
- Compatible with Enterprise NVR and Backup Server

### X5 Series Failover Server

- Enterprise Rackmount N+M Failover Server
- Takes over Breakdown Server Instantly (Less than 45 seconds)
- Total 96TB with 16HDDs, Supports 6TB Disk Drive and JBOD, Raid 0, 1, 5, 6
- Redundant Design with Dual LAN Ports and Redundant Power
- Hardware Watchdog, Self-Diagnostic
- Compatible with VMS Platform

### Hardware Specification

Spec / Model		S6024	X5016	X6024
System	Function	Extended Storage	Failover Server	Backup Server
	Operating System	-	Windows 7 Embedded	
	Monitor Support	-	VGAX1	
	Power Support	920W(Redundant)		
	LAN Port	-	Gigabitx2 , Dedicated IPMI x 1	
Video	IP Camera Licence	-	128	128
	Compression	-	H.264, MPEG4, MJPEG	
	Display Resolution	-		
Storage	HDD Trays (hot swap)	24	16	24
	Max HDD Storage	144TB	96TB	144TB
	RAID Level	RAID 0.1.5.6		

\*All specifications are subject to change without notice



POS Solution - Retail

Fast Generic POS Integration with Different POS Machines

Key Feature

- GVD NVR enables connection up to 8pcs POS/48ch IP camera via GVD POS Box (RS232/RS485/RS422)
- Ideal POS solution for retail store, supermarket, hotel, gas station, shopping mall and restaurant
- Synchronizes POS transaction data display for live video and playback
- Supports POS transaction alert, event detection/quick Search and transaction data (transaction record/video clip/snapshot) export



Retail (POS) Architecture



Software Specification

Spec / Model		POS
System	Item	POS Software
	POS License	8ch
	POS Integration	Integration with all brands of POS machines via GVD POS Editor
	Supported Models	Enterprise NVR (M6 Series), Standalone NVR (M4, M3, M109 Series), Mini Standalone NVR (M95 Series)
	Expansion	POS BOX (A0003-POS)
Software	Live View	Live Viewing with Transaction data
	Search	Time, Item (Keyword), Price with Transaction data and Video
	Playback	Time, Item (Keyword), Price with Transaction data and Video
	Event Setting	Transaction Start and End, Open Cash Register, Abnormal Transaction, Connection Lost, etc.
	Alarm Management	Alarm, Trigger Recording, E-mail, Video Pop-up, etc.
	Abnormal Transaction	Alarm Rule (Item, Value), Alarm Popup, Alarm Search
	Customized User-defined	POS transaction start, POS transaction end, Cash Register Opened
	Data Export	Export POS transaction records as CSV format for advanced data analysis
	Video Clip Export	Export video clip with POS transaction data
	Snapshot Export	Export snapshot with POS transaction data

# M1 In-Vehicle Mobile NVR

Rugged Fanless Mobile NVRs Are Suitable for Large Scale Transportation Projects with VMS Platform

## M1 Series

GVD M1041/M1141/M1182, In-vehicle mobile NVRs, are turnkey products with embedded Windows 7, built-in 3G/Wi-Fi/GPS/G Sensor, and approved e13 mark certification, there're suitable for transpiration solutions, especial with large scale projects (100~200 Mobile NVRs), including buses, school buses, vehicles, etc.. It only takes 5~30 minutes to backup video with VMS Platform (video length of 24~144 minutes and 2MP@25fps with 4.8Mb).

## Key Feature

- Prebuilt 4 / 8ch IP Camera Licenses with PoE Ports
- Featuring Anti-vibration and Built-in 3G/WiFi/GPS (M1041 doesn't support WiFi)
- 8ch Full HD Real-time Recording (Max. 32Mb)
- Supports 2TB (2.5") Disk Drive and 516GB (2.5") SSD
- Ruggedness Fanless Design with Corrugated Aluminum
- On-board Hardware Watchdog



**Fast Installation with Power over Ethernet**  
It's easy to install cameras using power through ethernet form NVR without extra adapter.



**Anti-shock & Anti-vibration**  
Advanced safety feature anti-shock/vibration certified by MIL-STD-810G.



**Power Ignition Management**  
Protecting the power system and avoid running down the battery.



**Built-in GPS**  
Locating and Tracking the vehicle for surveillance applications such as vehicle management, history route checking, real-time monitoring



**Dual Display**  
Dual Monitor (VGA/HDMI/DVI) Support (Live View, Alarm Pop-up, etc.)



**Emergency Button**  
When an accident happens, click an emergency button to create bookmark and push notification to control center.



**Built-in G Sensor**  
It can send message alert automatically for SOS in case of an accident.

## Hardware Specification

Spec / Model		M1141	M1182
System	Item	Mobile NVR (Anti-Vibration)	
	CPU	Celeron 847E	
	Operating System (OS)	Windows 7 Embedded	
	Communication	3G, Wi-Fi, GPS	
	LAN Port	Gigabit LAN (RJ45) with POE (IEEE 802.3af) x 4	Gigabit LAN (RJ45) with POE (IEEE 802.3af) x 8
	Power Voltage	9~36Vdc (Vehicle Ignition Power Management)	
	Watchdog	Supports Hardware & Software Watchdog	
	Chassis	Fanless Design with Corrugated Aluminum	
	Certification	CE, FCC Class A, eMark-13, MIL-STD-810G	
Video	Recording Capacity	1 TB (2.5" HDDx1) or 256 GB (2.5" SSDx1)	2 TB (2.5" HDDx2) or 512 GB (2.5" SSDx2)
	IP Camera License	4ch	8ch
	Local Display Resolution / FPS@D1	D1~ 20MP / 210 fps	
	Recording Throughput	Max.32Mb	
	Recording Resolution	D1, 1.3~20 Megapixel	
	Video Codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG	
Video	Video Port	VGAx1, HDMIx1, DVI-Dx1	VGAx1, HDMIx1, DVI-Dx1

\*All specifications are subject to change without notice

# LPR Solutions - Transportation

Outstanding LPR + NVR Performance in CMS Platform

## GVD M4006-LPR

GVD M4006-LPR, super-standalone NVR, has equipped outstanding LPR performance to recognize upto 16 lanes with 8ch full HD cameras and to record millions of snapshots. It's also functioning as a NVR with 6 x HDD server, simple, reliable and flexible to scale up projects in CMS Platform (upto 300ch) for easy and simple central management, perfectly for residential complex parking, cooperate buildings, or school campus etc..

## Key Feature

- 16 Lane Detection with 8ch Full HD Cameras
- Featuring Millions of Snapshots for LPR Applications
- Recognizes and Manages Vehicles with Predefined Lists
- Quick Searches by Predefined Lists, Regions, Camera Locations, a batch of License Plate Numbers
- Synchronizes Notifications in E150



## Targeting Markets

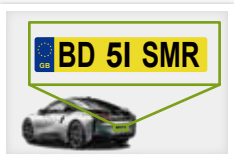
- Parking lot , residential or corporate
- Gas Station
- Hand-free Entrance Access Control
- For gate control application where cars are stopped or slowed down at parking entrance



Parking lot



Gas Station



## The Best License Plate Recognition System

GVD M4006-LPR combines industry-leading accuracy to capture more license plates per camera. 2 detection lanes per each HD camera, GVD M4006-LPR totally supports 16 lane detection with 8ch full HD cameras.



## User Predefined List as Black/ White/ Gray

Base on GVD M4006-LPR, user can predefine list as black/ white/ gray list to recognize and manage vehicles.



## Millions of Snapshots

GVD M4006-LPR can record millions of snapshots to ensure information is completed for LPR applications.



## Quick Search and Browsing with intuitive GUI

In CMS platform, the intuitive GUI is simple to understand and easy to search events, alarms and vehicles quickly by predefined list, regions, camera

## Hardware Specification

Spec / Model		M4006 - LPR		
System	Item	LPR NVR		
	CPU	Core i5-2400 / i7-2600		
	Operating System (OS)	Windows 7 Embedded		
	LAN Port	Gigabit LAN (RJ45) x2		
	Power Voltage	100~240 Vac, 50-60 Hz		
	Watchdog	Supports Hardware Watchdog		
	Chassis	2U Rackmount Chassis with Chassis Runner		
	Recording Capacity	36 TB (6x HDDs, Prebuilt 1 pcs)		
Video	IP Camera License	24ch	24ch	48ch
	LPR Channel License	4ch	8ch	8ch
	Recording Resolution	D1, 1.3~20 Megapixel		
	Video Codec	H.264 High Profile, MPEG4, M-JPEG, MxPEG		
	Video Port	VGA x1 , HDMI x2 (Supports Two Video Outputs Simultaneously)		

\*All specifications are subject to change without notice



# Remote Access Client Platform

Anytime - Anywhere Flexible Video Monitoring and Operation



- App Client
- Apple / Android Phone and Tablet (iPhone, iPad, Samsung, HTC, Sony Smart Phone, etc)
  - Intuitive user interface design for efficient video monitoring via portable devices
  - Dedicated free access to any NVR by WiFi/3G up to 20ch
  - Minimum bandwidth required : 128kb



- CMS Client (E90)
- Free CMS (Central Management System) supports up to 3 units of NVR or 64ch for real-time connection
  - Consistent user interface as NVR includes Display/Alarm Modes and Video Export Spooler for easy operation
  - Advance alarm pop-up in Display Mode and smart video quick search in Alarm Mode

- Web Client
- Supports MS IE Browser 6.0 - 9.0 up to 1 unit of NVR or 9ch for quick connection
  - Multiple layouts for selection (1x1/2x2/3x3)
  - Flexible access from any workstation for higher display performance
  - Minimum bandwidth required : 256kb

## Key Feature

- Easy to use instantly without setting up any configuration
- Real-time monitoring for live/playback video and PTZ camera control anytime, anywhere
- Consistent and intuitive features for easy operation and navigation performance on HDDs
- Efficient transcode design for remote monitoring with limited bandwidth

Spec / Model	App Client				Web Client	CMS Client
	iPhone	iPad	Android Phone	Android Tablet		
NVR Unit Connection	1	1	1	1	1	3
Max Live Viewer Number	6	20	8	20	9	64
Channel Status in Viewer	video loss, recording	video loss, recording	video loss, recording	video loss, recording	video loss, motion, recording	video loss, motion, recording
Layouts	1x1, 2x1, 3, 2x2, 3x2, 4x1	1x1, 2x1, 2x2, 3x2, 4x2, 3x3, 4x3, 4x4, 5x4	1x1, 2x1, 3, 2x2, 3x2, 4x1, 4x2	1x1, 2x1, 2x2, 3x2, 4x2, 3x3, 4x3, 4x4, 5x4	1x1, 2x2, 3x3	1x1, 2x2, ..., 3x3, 8x8
Transcode on NVR for Streaming	Yes	Yes	Yes	Yes	-	-
Minimum Resolution (W x H)	320x480	1024x768	320x480	1280x800	1024x768	1280x1024
Minimum Bandwidth (Kb)	512 (Wi-Fi) 96 (3G)	1280 (Wi-Fi) 256 (3G)	512 (Wi-Fi) 96 (3G)	1280 (Wi-Fi) 256 (3G)	256	512

\*All specifications are subject to change without notice



Our Service

- **Customer Support Service**  
24-hour email or Skype response to ensure the best customer support for issue or problem solving in various languages: English, Spanish, Germany etc.
- **Project Solution Consultation**  
Full Services project support: presales consultant for IP camera selection, network design, project implementation and deployment, and systems maintenance to ensure the project execution successfully without unexpected showstoppers.
- **Certifications for Distributor and SI**  
GVD Certification programs provide the most valuable training: hands-on and step-by-step classes which develop comprehensive knowledge of IP surveillance and GVD product.
- **2-Year Product Warranty**  
All GVD products are protected by a 2-year of Standard Warranty for free repair or replacement. Furthermore, GVD provides MSP program to help customers to extend GVD Warranty up to 4-year totally. GVD's supports are: email support, Skype chatting, phone support and Teamview remote logon.
- **On-site services**  
GVD On-site Support service is available per customer request. Such service includes: site survey, GVD product configuration, trouble-shooting, project sign-off assistance, GVD systems upgrade etc.

Professional Support Team

- 01 Quick intouch and immediate help
- 02 Project consultants and implementation
- 03 Products/Resale certification programs

- 04 2-year warranty, with optional extension
- 05 Field service on request



Support and Maintenance Service Package (MSP)

GVD 24-7 intouch technical support is available on your option  
Report your issue to GVD at:  
<http://gvdhelpdesk.dyndns.org:8081>

E-mail support  
US/NZ/AU: [support\\_usa@gvddigital.com](mailto:support_usa@gvddigital.com)  
The other regions: [support@gvddigital.com](mailto:support@gvddigital.com)

VMS / CMS Platform					HD NVR Enterprise				HD NVR Standalone				Mobile NVR		LPR NVR
   					   				   				 		
● Item	VMS Manager / Video Wall Decoder	Backup Server (Rackmount)	Failover Server (Rackmount)	CMS Manager	Rackmount Enterprise NVR	Rackmount Enterprise NVR	Rackmount Enterprise NVR	Extended Storage (Rackmount)	Super Standalone NVR (Rackmount)	Super Standalone NVR (Rackmount)	Standalone NVR	Mini Standalone NVR	Mobile NVR (Anti-Vibration)	Mobile NVR (Anti-Vibration)	LPR NVR (Rackmount)
● CPU	Core i7-2600	Xeon® E3-1240	Xeon® E3-1220	Core i7-2600	Xeon® E3-1240	Xeon® E3-1220	Xeon® E3-1220	---	Core™ i5-2400 / Pentium G2120	Core™ i7-2600* / Core™ i5-2400	Core™ i3-3220	Celeron® G1840	Celeron® 847E	Celeron® 847E	Core™ i7-2600 / Core™ i5-2400
● IP Camera License	3,000ch	128ch	128ch	1,024ch	64ch, 96ch, 128ch	64ch, 96ch	48ch, 64ch	---	24ch, 32ch, 48ch, 64ch	16ch, 24ch, 32ch, 48ch	12ch**, 16ch, 24ch, 32ch	4ch, 8ch, 12ch	4ch	8ch	24/4 , 24/8 , 48/8 (IP Camera/ LPR Channel)
● Local Display Resolution	D1~ 20MP 1740 fps	---	---	D1~ 20MP 2160 fps	D1~ 20MP 480 fps	D1~ 20MP 480 fps	D1~ 20MP 480 fps	---	D1~20MP 960 fps / 480 fps	D1~20MP 1080 fps	D1~20MP 810 fps	D1~20MP 270 fps	D1~ 20MP 210 fps	D1~ 20MP 210 fps	D1~ 20MP 720 fps
● Recording Resolution	---	D1, 1.3~20 MP	D1, 1.3~20 MP	---	D1, 1.3~20 MP	D1, 1.3~20 MP	D1, 1.3~20 MP	D1, 1.3~20 MP	D1, 1.3~20 MP	D1, 1.3~20 MP	D1, 1.3~20 MP	D1, 1.3~20 MP	D1, 1.3~20 MP	D1, 1.3~20 MP	D1, 1.3~20 MP
● LAN Port	Gigabit LAN (RJ45, On-board Teaming) x2	Gigabit LAN (RJ45, On-board Teaming) x2, Dedicated IPMI x1	Gigabit LAN (RJ45, On-board Teaming) x2, Dedicated IPMI x1	Gigabit LAN (RJ45, On-board Teaming) x2	Gigabit LAN (RJ45, On-board Teaming) x2, Dedicated IPMI x1	Gigabit LAN (RJ45, On-board Teaming) x2, Dedicated IPMI x1	Gigabit LAN (RJ45, On-board Teaming) x2, Dedicated IPMI x1	Gigabit LAN (RJ45) x2 Dedicated IPMI x1	Gigabit LAN (RJ45) x2	Gigabit LAN (RJ45) x2	Gigabit LAN (RJ45) x2	Gigabit LAN (RJ45) x2	Gigabit LAN (RJ45) with POE (IEEE 802.3af) x 4	Gigabit LAN (RJ45) with POE ( IEEE 802.3af) x 8	Gigabit LAN (RJ45) x2
● Video Port	VGAx1, HDMIx1, DVI-Dx1 (Support Two Video Outputs Simultaneously)	VGAx1	VGAx1	VGAx1, HDMIx1, DVI-Dx1 (Support Two Video Outputs Simultaneously)	DVI-lx2	DVI-lx2	DVI-lx2	---	VGAx1, HDMIx2 (Support Two Video Outputs Simultaneously)	VGAx1, DVI-Dx1, HDMIx1 (Support Two Video Outputs Simultaneously)	VGAx1, HDMIx2 (Support Two Video Outputs Simultaneously)	HDMI x1, Display Port x1	VGAx1, HDMIx1, DVI-Dx1 (Support Two Video Outputs Simultaneously)	VGAx1, HDMIx1, DVI-Dx1 (Support Two Video Outputs Simultaneously)	VGAx1, HDMIx2 (Support Two Video Outputs Simultaneously)
● Hard Disk Trays (Bays)	1 pcs (SATA2)	24 pcs	16 pcs	1 pcs (SATA2)	24 pcs (Hot Swap)	16 pcs (Hot Swap)	12 pcs (Hot Swap)	24 pcs (Hot Swap)	8 pcs	6 pcs	4 pcs	2 pcs (2.5") or 1 pcs (3.5")	1 pcs with a Key Lock (Hot Swap)	2 pcs with a Key Lock (Hot Swap)	6 pcs
● Storage Capacity	500 GB	6 TB	6 TB	500 GB	6 TB	6 TB	6 TB	6 TB	6 TB	6 TB	4 TB	1 TB (2.5") or 4 TB (3.5")	1 TB (2.5" HDDx1) or 256GB (2.5" SSDx1)	2TB (2.5" HDDx2) or 512 GB (2.5" SSDx2)	6 TB
● RAID Level	---	RAID 0, 1, 5, 6	RAID 0, 1, 5, 6	---	RAID 0, 1, 5, 6	RAID 0, 1, 5, 6	RAID 0, 1, 5, 6	RAID 0, 1, 5, 6 (Controller in front-end machine)	RAID 0, 1, 5, 6 (Option)	RAID 0, 1, 5, 6 (Option)	**RAID 0, 1, 5	---	---	---	RAID 0, 1, 5, 6 (Option)
● Power Voltage	100~240 Vac, 50-60 Hz	100~240 Vac, 50-60 Hz (Redundant)	100~240 Vac, 50-60 Hz (Redundant)	100~240 Vac, 50-60 Hz	100~240 Vac, 50-60 Hz (Redundant)	100~240 Vac, 50-60 Hz (Redundant)	100~240 Vac, 50-60 Hz (Redundant)	100~240 Vac, 50-60 Hz (Redundant)	100~240 Vac, 50-60 Hz	100~240 Vac, 50-60 Hz	100~240 Vac, 50-60 Hz	100~240 Vac, 50-60 Hz	9~36Vdc (Vehicle Ignition Power Ma—gement)	9~36Vdc (Vehicle Ignition Power Ma—gement)	100~240 Vac, 50-60 Hz
● Power Consumption	127W	575W	485W	127W	575W	485W	385W	380W	127W	127W	150W	30W	20W (Without POE Consumption - Max. 15.4W x 4POE = 60.16W)	20W (Without POE Consumption - Max. 15.4W x 8 POE = 123.2W)	127W
● Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)	5°C ~ 35°C (41°F ~ 95°F)	5°C ~ 35°C (41°F ~ 95°F)	0°C ~ 40°C (32°F ~ 104°F)	5°C ~ 35°C (41°F ~ 95°F)	5°C ~ 35°C (41°F ~ 95°F)	10°C ~ 35°C (50°F ~ 95°F)	5°C ~ 35°C (41°F ~ 95°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 ~ 35°C (32°F ~ 95°F)	-20°C ~ 55°C (-4°F ~ 131°F)	-20°C ~ 55°C (-4°F ~ 131°F)	0°C ~ 40°C (32°F ~ 104°F)
● Dimensions (WxHxD)	432x106x427mm	437x178x660mm	437x132x648mm	432x106x427mm	437x178x660mm	437x132x648mm	437x89x660mm	437x178x660mm	430x98x550mm	430x98x550mm	200x205x320mm	200x73x253mm	273.8x64.8x188mm	276.4x85.3x190mm	430x98x550mm
● Net Weight	7.0 Kg	34 Kg	32.7 Kg	7.0 Kg	34 Kg	32.7 Kg	23.6 Kg	34 Kg	9.28 Kg	9.28 Kg	5.86 Kg	1.86 Kg	3.63 Kg	5.8 Kg	9.28 Kg

\* For M4006-IR only
\*\* For M3004-IR only

The specifications above are subject to change without notice.