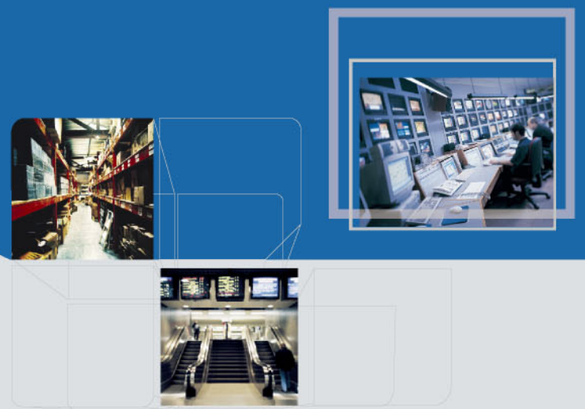
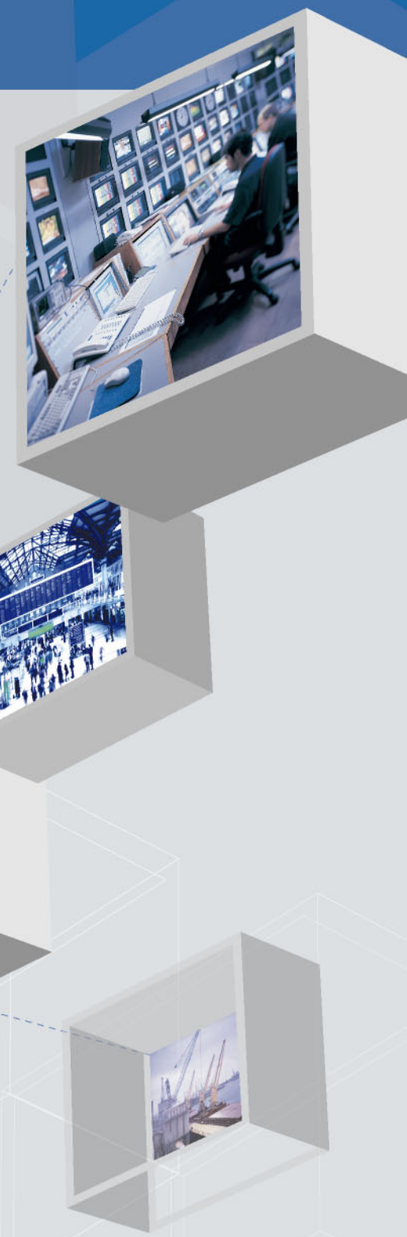
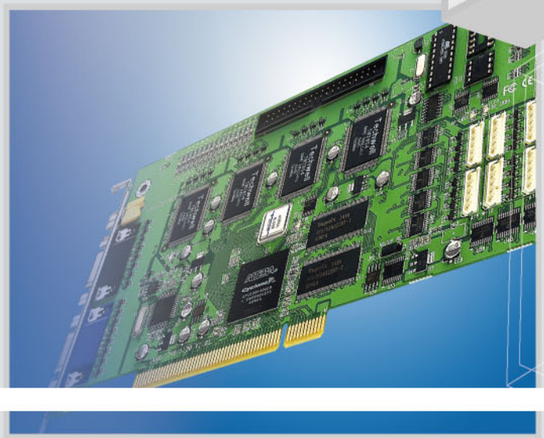


GeoVision inc

2006 Product Booklet
Better Digital Surveillance System





GeoVision inc

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2006. 09

Company Profile

Company Profile

GeoVision started in 1998 as a video surveillance system developer, with the aim to become a leading total solution provider at digital surveillance field. Up to date, GV-series digital surveillance systems are selling to over 100 countries under GeoVision brand name. With our advantages in digital surveillance techniques, we are forging ahead to new fields of network DVR, network storage, and even video security service.

Product Coverage

GeoVision digital surveillance system holds technical edges in networking accessibility, image processing, and hardware enhancements. We have developed sector-specific products with a wide interoperability into various fields including point-of-sales systems, license plate recognition systems, centralized monitoring systems, video servers, and access control-DVR systems.

Product Roadmap

GeoVision futuristic plan will focus on two new but challenging categories in the security industry, one is network DVR development and the other is video security service.

Network DVR covers an extension of centralized monitoring services of no boundaries, enabling video, audio and data transmission over the Internet to GeoVision's Central Monitoring Station, I/O Central Panel, and 3G handheld devices. A well-designed network storage algorithm will enable a large scale of data storage over the Internet, improving the data storage quality on all GV-systems.

Video Security Service is a revolutionary business model for security centers and home care centers. The GeoVision Security Service utilizes Ethernet transmission techniques, wireless sensor devices and GV-Video Servers to extensively lower operation cost and raise security efficiency. It will open a new market for commercial and residential uses.

Our Patents and Awards Gallery

Patents

Oct. 2001 Taiwan Patent, No. 135537

Security system activated and deactivated by image variation.

Nov. 2002 USA Patent, No. 6477314-B1

Method of recording image data, and computer system capable of recording image data.

Combo Card

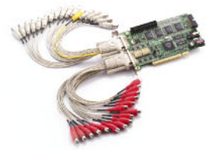
Model	GV - 1120	GV - 1240	GV - 1480
Recording Rate	120 FPS (NTSC), 100 FPS (PAL)	240 FPS (NTSC), 200 FPS (PAL)	480 FPS (NTSC), 400 FPS (PAL)
Display Rate	480 FPS (NTSC), 400 FPS (PAL)		
Video Input(s)	8, 12, 16	8, 16	16
Audio Input(s)	8, 12, 16	8, 16	16
TV Output	RCA Connector x 1		
Input Type • DVI	1 PCI Slot : DVI x 2 (one for 16 video, one for 16 audio)		
• D - Type	2 PCI Slot : DB15 x 2 (for video) ; DB9 x 2 (extension card for audio)		
Compression Format	Wavelet, MPEG-4, Geo MPEG-4, Geo MPEG-4 ASP, Geo H264		
Video Resolution	D1, Half D1, CIF		

PCI Express Dsub - Type
212 (W) x 99 (H) mm

PCI Dsub - Type
170 (W) x 95 (H) mm

PCI DVI - Type
165 (W) x 95 (H) mm

Dsub - Type



DVI - Type

Hardware Compression Card

GV - 2004 New

Recording Rate	D1@120 FPS (NTSC), D1@100 FPS (PAL)
Display Rate	120 FPS (NTSC), 100 FPS (PAL)
Input Type	DB15 (for Video & Audio)
Video Input(s)	4 Cams
Audio Input(s)	4 Channels
TV Output	RCA Connector x 1
Compression Format	S/W : Geo MPEG4, Geo MPEG4 (ASP) Geo H264 H/W : MPEG-2 / MPEG-4
Video Resolution	D1, Half D1, CIF
Dimensions	195 (W) x 102 (H) mm

GV - 2008 New

Recording Rate	D1@240 FPS (NTSC), D1@200 FPS (PAL)
Display Rate	240 FPS (NTSC), 200 FPS (PAL)
Input Type	DB15 x 2 (for Video & Audio)
Video Input(s)	8 Cams
Audio Input(s)	8 Channels
TV Output	RCA Connector x 1
Compression Format	S/W : Geo MPEG4, Geo MPEG4 (ASP) Geo H264 H/W : MPEG-2 / MPEG-4
Video Resolution	D1, Half D1, CIF
Dimensions	240 (W) x 102 (H) mm

Capture Card

GV - 800

Recording Rate	120 FPS (NTSC), 100 FPS (PAL)
Display Rate	120 FPS (NTSC), 100 FPS (PAL)
Input Type	BNC: BNC X 4/ D-Type: DB15 X 2
Video Input(s)	4, 8, 12, 16 Cams
Audio Input(s)	4 Channels
Compression Format	Wavelet, MPEG-4, Geo MPEG-4, Geo MPEG-4 ASP, Geo H264
Video Resolution	D1, Half D1, CIF
Dimensions	175 (W) x 98 (H) mm

GV - 650

Recording Rate	60 FPS (NTSC), 50 FPS (PAL)
Display Rate	60 FPS (NTSC), 50 FPS (PAL)
Input Type	BNC X 4 / D-Type: DB15 X 2
Video Input(s)	4, 8, 12, 16 Cams
Audio Input(s)	2 Channels
Compression Format	Wavelet, MPEG-4, Geo MPEG-4, Geo MPEG-4 ASP, Geo H264
Video Resolution	D1, Half D1, CIF
Dimensions	175 (W) x 98 (H) mm

GV - 600

Recording Rate	30 FPS (NTSC), 25 FPS (PAL)
Display Rate	30 FPS (NTSC), 25 FPS (PAL)
Input Type	BNC: BNC X 4 / D-Type: DB15 X 2
Video Input(s)	4, 6, 8, 10, 12, 14, 16 Cams
Audio Input(s)	1 Channel
Compression Format	Wavelet, MPEG-4, Geo MPEG-4, Geo MPEG-4 ASP, Geo H264
Video Resolution	D1, Half D1, CIF
Dimensions	145 (W) x 97 (H) mm

GV - 250

Recording Rate	15 FPS (NTSC), 12 FPS (PAL)
Display Rate	15 FPS (NTSC), 12 FPS (PAL)
Input Type	BNC: BNC X 4 / D-Type: DB15 X 2
Video Input(s)	1, 2, 4, 6, 8, 12, 16 Cams
Audio Input(s)	1 Channel
Compression Format	Wavelet, MPEG-4, Geo MPEG-4, Geo MPEG-4 ASP, Geo H264
Video Resolution	D1, Half D1, CIF
Dimensions	BNC: 120 (W) x 95 (H) mm D-Type: 120 (W) x 87 (H) mm

Accessory (Card)

GV - NET CARD

Introduction	RS-232 to RS-485 Signal Converter
RS-232 to PC	RJ-11 to DB9 Female Cable
RS-485 (+/-)	Connect to GV-IO/PT-811 RS-485+ Dome Camera RS-485(+/-)
Dimensions	88 (W) x 99 (H) mm

GV - NET / IO CARD

Introduction	RS-232 to RS-485 Signal Converter
RS-232 to PC	RJ-11 to DB9 Female Cable
RS-485 (+/-)	Connect to GV-IO/PT-811 RS-485+ Dome Camera RS-485(+/-)
Input	4 (Dry Contact / TTL)
Relay Output	4 (Normal Open)
Relay Capacitance	2A / 30V DC; 0.25A / (250V) AC
Dimensions	88 (W) x 99 (H) mm

GV - IO 12-IN CARD

Introduction	GV-NET I/O CARD with 12 Points Digital Input Interface
Input	12 (Dry Contact / TTL)
Dimensions	64 (W) x 99 (H) mm

GV - IO 12-OUT CARD

Introduction	GV-NET I/O CARD with 12 Points Relay Output Interface
Relay Output	12 (Normal Open)
Relay Capacitance	2A / 30V DC; 0.25A / 250AC
Dimensions	107 (W) x 99 (H) mm

Accessory (Card)

GV - LOOP THROUGH CARD

Introduction	Without internal processing, video signals can be taken directly from GV-Series Capture Card and split into 16 channels while maintaining video quality.
Interface	2 x 40-Pin Connector
Output Interface	2 x 15-Pin D-type 1 x 40-Pin Connector
Input Signal	16 Channels
Dimensions	130 (W) x 98 (H) mm

GV - MULTI QUAD

New

Introduction	Design to alert through 5 additional TV screens. One is the main monitors and the other 4 are call monitors.
Interface for GV-Video Capture Card	40-Pin Connector
TV Output	DB15 to 5 BNC Connectors with 5 RCA video connector
Input Signal	16 Channels
TV Monitor Layout	Port 1: 1/4/6/8/10/12/16 screen division with scan and call function Port 2 ~ Port 5: Quad display or single channel selection with scan and call function
Compatible Model	GV-250, GV-600, GV-650, GV-800, GV-900, GV-11120, GV-1240 , GV-1480, GV2004, GV2008
Dimensions	178 (W) x 104 (H) mm

Accessory (Box)

GV - I / O

Introduction	Provides 8 digital inputs and 16 digital outputs
RS-485 (+/-)	Connect to GV-NET RS-485 (±)
Input	8 (Dry Contact)
Relay Output	16 Connection Points (For 2 x GV-Relay)
Output Circuit	TTL Open Collect
Dimensions	202 (W) x 39 (H) x 166 (D) mm

GV - RELAY

Introduction	Provides 8 digital relays outputs, controls alarms or PTZ cameras and connects to the control source of GV-I/O output
Relay Output	RL1~RL8
Relay Control Source	+5V,D01~D08 Connection Output of GV-I/O
Relay Status	Normal Open
Relay Capacitance	6A / 250V AC; 10A / 125V AC; 5A / 28V DC
Dimensions	202 (W) x 39 (H) x 166 (D) mm

GV - COM New

Introduction	Adds 1 RS-232/ RS-485 serial ports to PC's USB port, suits for instrumentation and POS applications
Dimensions	103 (W) x 32 (H) x 64 (D) mm

GV - HUB

Introduction	Adds 4 RS-232 / 4 RS-485 serial ports to PC's USB port, suits for instrumentation and POS applications
Dimensions	103 (W) x 309 (H) x 125 (D) mm

GV - Keyboard

Introduction	Used to program, operate, and control up to 16 GV-Systems through RS-485
Output	RS-232 DB9 Female, USB1.1, RS-485 (±)
Dimensions	300 (W) x 45 (H) x 161 (D) mm

GV - IR Remote Control

Introduction	Controls GV-Systems
Dimensions	53 (W) x 28 (H) x 185 (D) mm

Accessory (Box)

GV - DATA CAPTURE V3E

Introduction	The GV-Data Capture V3E is the integration of POS systems and GV-System through Ethernet	
	Connector	**Function**
Input	DB9 Female	RS-232 from POS
	DB25 Male/Parallel Port	RS-232 from POS/ Parallel Port from POS
Output	DB9 Male	RS-232 to Printer
	DB25 Female /Parallel Port	RS-232 to Printer / Parallel Port to Printer
	DB9 Female	RS-232 to DVR
	RJ-45	RJ-45 to DVR
	RS-485+	Connect to GV-NET / GV-Hub/GV-Com RS-485+
	RS-485-	Connect to GV-NET / GV-Hub/GV-Com RS-485-
DC IN	Power Adapter DC5V, 2A Inner Positive	
Dimensions	161 (W) x 34 (H) x 123 (D) mm	

GV-WIEGAND CAPTURE

Introduction	The GV-Wiegand Capture is the integration of Access Control System to GV-System	
Communication	RS-232	DB9 Female
	RS-485	Terminal Block
Input	Input	2
	Input Signal	12V Voltage input / dry-connect input
	High State	9~12V / close
	Low State	0V / open
Output	Relay	Output 2
	Relay Status	Normal Open
	Relay Capacitance	3A / VAC125V, 1.5A / VAC250V
	Relay ON Time	4ms
	Relay OFF Time	4ms
Wiegand	Input Connector	12V, D0, D1, GND
	Output Connector	12V, D0, D1, GND
	Format	Wiegand 26 Bits~40 Bits
DC IN	DC 12V, 1A	
Dimensions	120 (W) x 68 (H) x 26 (D) mm	

GV - Series
Digital Video Surveillance System

GV-Series Surveillance System is designed to process video, audio, and data from local and remote networked surveillance environment. It utilizes the most advanced digital video compression and processing technologies to generate superior video quality. Since GV-Series solution is PC-based, users can customize their systems for different surveillance needs. The TCP / IP networking capability enables video / audio data to be tranferred over the Internet to WebCam, 3G mobile phone, PDA, or GeoVision's remote monitoring applications.

Monitor Viewing

- Wavelet, MPEG-4, Geo MPEG-4, Geo MPEG-4 ASP, Geo H264
- Motion detection & Advanced motion detection
- Full screen view
- Object counting / Object tracking
- Video mask protection / Privacy mask
- Scene change detection
- Video de-interlace filter
- Synchronized 16 channels of video and audio
- Supports multi level passwords protection
- Customizes system features (Group function)
- Embedded I/O devices control
- Embedded PTZ control panel
- Supports dynamic IP address
- Swap HDD utility
- Spot monitor
- Latch trigger
- System idle protection
- I/O configuration / Advanced I/O panel
- Selectable interface
- Settings backup and restoration
- Supports 3GPP for 3G mobile
- Digital watermark
- E-map

Smart Search & Easy Playback

- Full screen view / Instant playback
- Object search & Index search (with Audio)
- Thumbnail browsing
- Time merge / Exporting privacy mask
- Synchronized audio and video
- Playback through Network
- Save Preview

IT Technology

- RSA Network Security
- Authentication Server
- SSL Network Security

Recording

- Real-time recording
- Recording runs on round-the-clock, motion detection, alarm and schedule
- Adjustable recording quality and frame rate
- Pre-motion and post-motion recording
- Supports Windows XP / Server 2003 burning software
- HDD Calculator
- Pre-recording using HDD

Notification

- E-mail or telephone alerts
- Video lost or I/O error alerts
- SMS alerts / Directs PTZ dome to a preset location

WebCam & Remote Playback

- Single view & multi view
- User-definable bandwidth control
- Remote control of PTZ domes and I/O devices
- Two-way audio communication
- Remote access to video and audio files
- UPnP compatible
- 32 channels of remote playback
- Address book
- Video archive by Date / Time / Cameras
- Advanced search function

GV - CMS

The GeoVision Central Monitoring Station program provides an overall central monitoring solution for high-profile security areas in commercial, industrial and residential use markets. The Center V2 Pro, VSM, Dispatch Server, and Control Center modules combined with the GV-System create an extremely powerful and cost effective Central Monitoring Station. These modules efficiently manage multiple GV-System subscribers, receive and record video images for evidence, reduce false alarms, instantly output alarms to alert authorities, and maintain full event list for retrievals, all from one point of control.

Center V2 Pro

- Provides 5 subscribers version for FREE
- Increases up to 500 subscribers with the Professional version
- Receives real-time videos & events notification from subscriber (DVRs)
- Events are sorted into 21 notification types
- Remote control I/O status (Activation/Trigger)
- SMS, Email notification
- Subscriber's activities report for analysis

Control Center

- Remote DVR
- Remote Desktop
- Remote ViewLog
- Matrix (Remote Live View of 256 cameras)
- I/O Central Panel (Remote I/O configuration)

Vital Sign Monitor (VSM)

- Servers up to 1,000 Subscribers
- Receives real-time events notification from subscriber (DVRs)
- Events are sorted into 21 notification types.
- Remote control I/O status (Activation/Trigger)
- SMS, Email notification
- Subscriber's activities report for analysis

Dispatch Server

- Distributes network load among Center V2s
- Supports up to 25,000 subscribers
- Streamlines Networking Processes

GV - System

GV - System

GV-1480S	16 Cams	900GB / 1200GB / 1600GB
GV-1240S	16 Cams	600GB / 1200GB / 1600GB
	8 Cams	600GB / 1200GB / 1600GB
GV-1120S	16 Cams	300GB / 600GB / 1200GB

- Operates on Windows XP Professional (Embedded System)

Dimensions (W x H x D)	483 x 178 x 528 (mm)

GV-System (Hot-Swap) — New

GV-1480H	16 Cams	4 Bays / 8 Bays
GV-1240H	16 Cams	4 Bays / 8 Bays
	8 Cams	4 Bays / 8 Bays
GV-1120H	16 Cams	4 Bays / 8 Bays

- Maximum Storage Capacity of more than 4 Terabytes
- Operates on Windows XP Professional (Embedded System)

Dimensions (W x H x D)	483 x 178 x 528 (mm)

GV-Mini DVR System — New

GV-1240M	16 Cams	Compact size of 60% less than a traditional 4U rackmount DVR
	8 Cams	
GV-1120M	16 Cams	Dual gigabit LAN

Dimensions (W x H x D)	360 x 78 x 285 (mm)

GV-NVR System — New

- Built-in 8 Hot-Swap Trays
- Choose from RAID 0,1,10,5,50 Configurations
- Maximum Storage Capacity of 3.5 Terabytes with 500G HDD RAID5, External HDD Accessible
- Automatic Detection of Failed Hard Drives
- Dual Gigabit LAN
- Monitoring HDD Recording Health Status (SMART)

Dimensions (W x H x D)	483 x 178 x 528 (mm)

GV-Standalone DVR — New

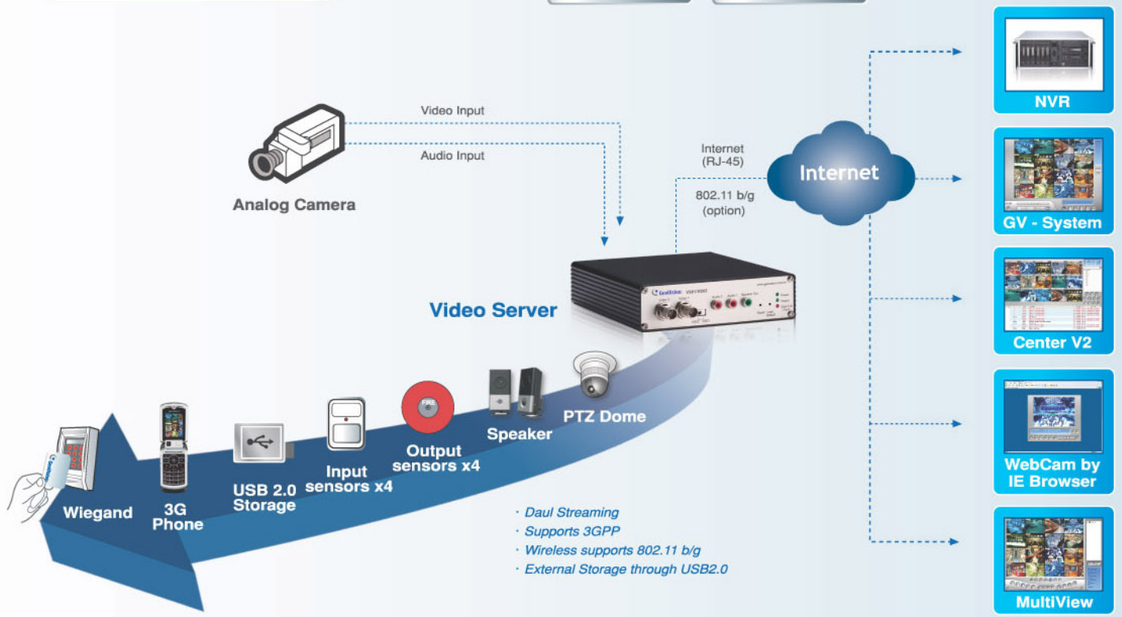
Dual Stream, Adjustable Bandwidth Control
Supports 3GPP & PTZ Domes and Cameras
External Storage
Wireless Support 802.11 b/g

Dimensions (W x H x D)	430 x 80 x 320 (mm)

GV - Video Server

GV-Video Servers is a simple video converter for existing analog CCTV system into advanced IP surveillance system. Each video server digitizes one or two analog video signals and compresses them into MPEG4 ASP and sends these crisp clear full D1 streams using small bandwidth over an IP network. These streams will be captured, analyzed and processed by GV-Multicam and distributed to a centralized security center like GV-Center V2 with VSM. Thanks to built-in DUAL Streaming Engine you can remotely access on the road at anytime and anywhere using a 3G/UMTS Mobile Phone and save the video streams simultaneously to a NVR.

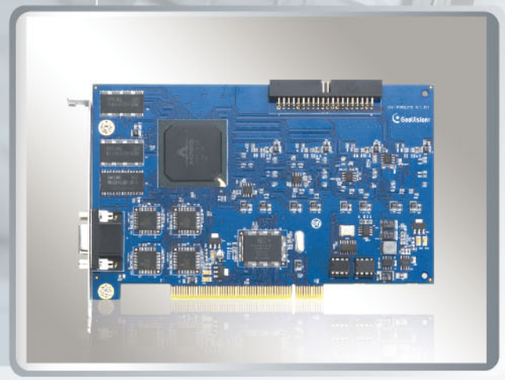
Connection Diagram



Applications

- Home
- Retail
- Enterprise
- Industry
- Utility
- Stadium
- Education
- Halthcare

GV - Multi Quad Solution



GV-Multi Quad is designed to alert security personal visually through 5 additional TV screens. The primary screen also known as Main Monitor can be configured into Single or up to 16 Screen Division. The secondary screen(s) also known as Call monitor (up to four TVs) display in Single or Quad division. These Call monitors are mainly used for Visual Alert upon Motion Detection or Digital I/O trigger and switch to Full Screen of the happening scene immediately.

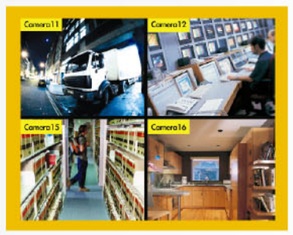
Connection Diagram

Call Monitor 1

Call Monitor 3

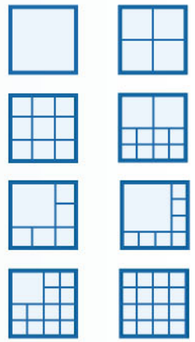
Main Monitor

Call Monitor 2



Call Monitor 4

*** Main Monitor**
8 Display style



*** Call Monitor**
2 Display style

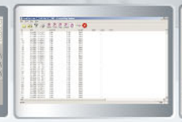
Applications

- Central Monitoring Station
- Traffic Control
- Tunnel
- Casio
- Shopping Mall
- Border Control
- Resort
- Stadium

GV - POS DVR
Integration Solution

GV POS-DVR solution provides a number of video monitoring solutions with visual contextual awareness that can help business owners protect their business as well as reduce shrinkage. In addition to cash registers and POS systems, GV POS-DVR system provides a flexibility to integrate with many machines or equipments that provide context information.

Quick Search

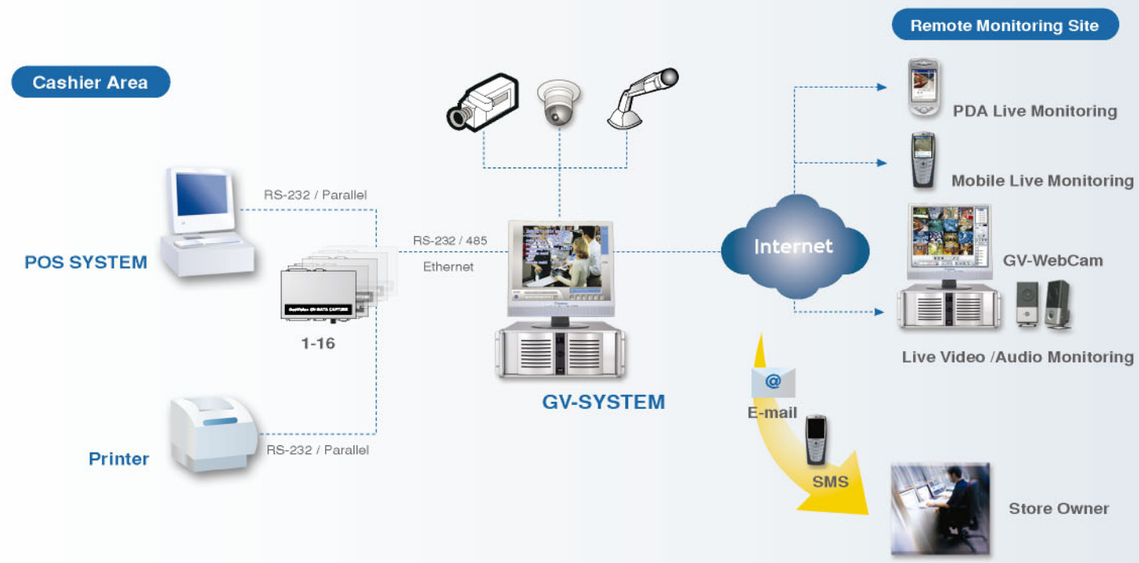


Advanced Search

POS Live View

Object Search

Connection Diagram



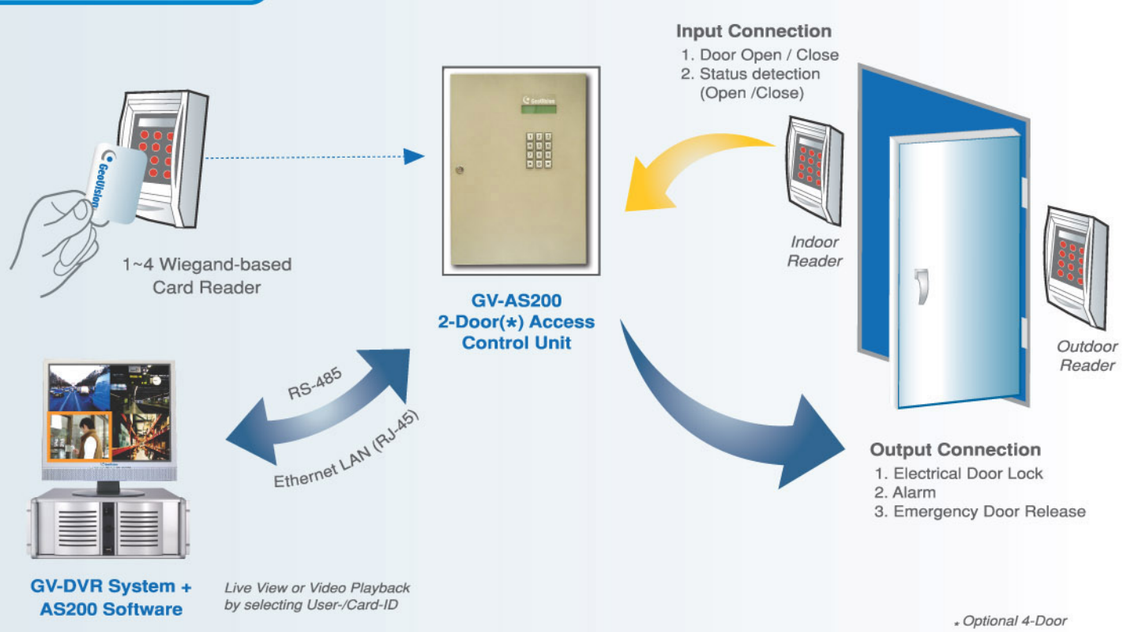
Applications

- Convenience Stores
- Retail Stores
- Restaurants
- Gas Stations
- Grocery Stores
- Parking Lot Toll Booths
- Banks
- Kiosks

GV - Access Control Solution

GV-AS200 features a 2-door powerful access control and maximum security management solutions for organizations requiring up to 10,000 card holders. Each door can be configured with a unique access right to prevent external breach penetration. To assure the reliability of information, GV-AS200 implements FeRAM for data storage.

Connection Diagram



Key Features

- Seamless integration with GV-DVR System
- Video overlay with card-ID, name of card holder and related information
- Smart search
- 2-door access control system (upgradeable to 4-door) · Six advanced working scenarios
- Easy connectivity to Wiegand interface card readers
- Ethernet / LAN / Internet Support
- Supports Web base interface

GV - LPR
License Plate Recognition

GV-LPR is a digital license plate recognition system that utilizes Neural Network Technology of artificial intelligence to identify vehicle license plates. It comprises a video capture card to acquire images, a software-based engine to recognize characters, a set of I/O modules to integrate with alarm and sensors, and a database to store images for event retrieval or analysis.1,2,4,6 and 8-lane real-time recognition are available.

Connection Diagram

Applications

- Parking lot management
- Enterprise entrance management
- Automatic toll collection enforcement
- Traffic enforcement statistics
- Border surveillance
- Stolen vehicle search