Advanced technologies and modern solutions from GeoVision are helping to make digital surveillance a practical reality with dynamic possibilities. As a leading provider for digital surveillance systems, we provide a broad spectrum of important benefits in the local and remote sites, CMS and management as well as integrations for public and commercial security markets.

Local
Geo-Surveillance system provides intelligent video recording solutions for everyday operation on the local server. It records and monitors local video, audio, and text data, as well as the intelligent video content analysis, server live video display, cutting-edge video management functions, and event alert management to reduce false alarms. Strong and multiple search abilities are developed to make and quickly find important information. The user-friendly interface facilitates everyday operation and shortens learning period. The system is designed for easy upgrade, and displays are featured with a series of flexible connection, backup and language options.

Remote
Geo-Surveillance system is designed especially for remote monitoring and remote configuration. The GV surveillance network system can be accessed via the Internet by an authorized remote surveillance manager on a PC or mobile device (smartphone, tablet). Remote monitoring and remote configuration can be performed through the Internet, and playback can be implemented over TCP/IP. Users can remotely access video, audio and text data via 3G broadband mobile phones. Smart Phone, PDA, or Geo-Surveillance monitoring applications. With the powerful remote monitoring functions, video surveillance can be implemented without limitations of time and distance.

CMS & Management
Geo-Surveillance system provides a centralized control and management of numerous systems over TCP/IP networks. Combined with GeoVision’s central monitoring software, it offers the capability for centralized video surveillance services as well as control and management. Key functions are real-time remote live monitoring, access control, event management, and intelligent video content analysis functions. The central monitoring and control of the systems provide high security for commercial, residential, and industrial surveillance in a time and cost efficient solution.

Integration
The dynamic developments in video surveillance technology have resulted in systems integration and valued-added benefits. GeoVision surveillance system provides cost efficient and optimal security through integration with POS cashiers, parking plate recognition, access control systems, and P systems. They can be centrally integrated into comprehensive security video management systems across the commercial and public transportation center and public security (e.g. airport, schools, transportation).

Technical Specifications

- **Video Input**: 2Ch (PAL/NTSC), 8Ch (input), N/A, N/A, N/A, N/A
- **Video Output**: 2Ch (PAL/NTSC), 8Ch (output), N/A, N/A, N/A, N/A
- **Max. Number of Zones**
  - Remote in/out 16
  - External alarm 2
- **Event Handling**:
  - Motion Detection, Video Loss, Audio Loss, Line Cross, Line Overflow
- **Event Forwarding**:
  - Email, FTP, SMS, Alarm Device
- **Max. Event**: 1000
- **Image Compression**: MPEG-4 (profile H.264), JPEG-2000
- **Video Source**: 720 x 576
- **Video Resolution**: 16 Ch (PAL/NTSC), N/A
- **Video Input**: 8 Ch (PAL/NTSC), 8 Ch (NTSC)
- **Video Codec**: I420
- **Audio Codec**: G.711U, G.711A
- **Audio Input**: Built-in microphone
- **Audio Output**: Headphone, Mic. In
- **Input/Output**:
  - Power supply: 12VDC, 4A
  - Ethernet: 10M/100M, RJ45
  - Communication: USB2.0
  - VGA: 15-pin, DVI-D: 24-pin
  - LAN: 10/100/1000Base-T
  - Audio In: 3.5mm, Audio Out: 3.5mm
  - Alarm In: 2, Alarm Out: 2

Awards

- Best Product (Gaia Series, 2006)
- Best Product (PV-330 Series, 2007)
- Best Product (PV-350 Series, 2008)
- Best Product (PV-370 Series, 2009)
- Best Product (PV-390 Series, 2010)
- Best Product (PV-400 Series, 2011)
- Best Product (PV-420 Series, 2012)

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GV-Series Surveillance System

- Real-Time Recording and Display
- 16 Channels Audio Recording and Playback
- Video Compression Technology: GEO MPEG-4 ASP, GEO H.264, HDMI MPEG-2
- Full D1 Resolution
- User Friendly Interface
- Multilingual
- Multifunction: Monitoring, Recording, Remote Viewing, Remote Management & Control
- Software Integration: GV/POS/DSLR, DVR, LPR, GV/Valor, GV/AutoControl, GV/MultiQuad Solution, Hybrid Solution, 3D Live Viewing, Building Automation, Security Services
Intelligent Monitoring, Recording, Playback, Analytics, CMS Management & Control

Video Monitoring & Analytics

- **Face Detection**
- **Password Management**
- **Hardware Compression**
- **Touch Screen**
- **Virtual PTZ and I/O Control**

Audio Automation

- **Visual Automation**

Password Management provides best security practice in surveillance system. Features include user authentication, audit trail and more.

Hardware Compression

GV-2054 and GV-2059 hardware compression are MPEG4 & H.264 codec. These provide 4-6X compression compared to image size.

Touch Screen

Notification and Alert

I/O and Alarm Management + E-Map

Virtual PTZ and I/O have two types of control methods e.g. GUI control panel and a direction icon on the image.

These devices can be controlled by a simple click on the direction icon on the image or by using the control panel.

Integration

- **Access Control Integration**
- **Biometric Access Control**

Access Control Integration can be used to integrate Wiegand Access Control with GV Surveillance system. Photo ID and text data can be correlated on video and used to initiate video.

Biometric Access Control allows you to adopt a biometric access control system into your surveillance system. This deters unauthorized access to areas with each access attempt verified using biometric data (face or fingerprint).

Recoration

- **Video Compression Technologies**
- **Track/Event Search**
- **Schedule Recording**
- **Event Browsing**
- **Backup with Direct Burn DVD**
- **Multiple Format Export (EVE, AVI, DVD)**

Video Compression Technologies provide three advanced video compression codices: G2O-1084, G2O-1085 and G2O-1086. G2O-1084 and G2O-1085 are excellent choices for high quality and low bit rates, while G2O-1086 is the best choice for high resolution and high security needs.

Track/Event Search

Schedule Recording

Event Browsing

Backup with Direct Burn DVD

Multiple Format Export

GV-System provides a hybrid solution of IP surveillance that would integrate existing analog cameras through the GV-Video Server (Optional).

GV-POS/GV-ATM Integration

The GV-POS can be combined with GV Data Capture (Optional) to provide POS/ATM feature. By bringing video and transaction data together, the POS/ATM system can securely manage the store and alert the users and helps reduce shrinkage and fraud loss.

A newly-released Ethernet module can up to 16 POS systems or cash registers to transmit video and control information via Ethernet. Major features include POS live view and playback through GV-WebCam, search by keywords, browser triggered I/O and PTZ, and abnormal transaction alerts etc.

Recovery

- **Index Search**
- **Timeline Search**

Timeline enables users to locate a specific video recorded on a time frame via an easy-to-browse graphical tool. Timeline can display minutes and seconds on the horizontal X-axis and video playback in the timeline window on the right.

Event Search

Backup with Direct Burn DVD

Multiple Format Export

GV-System can display any of the video recorded to meet your specific needs, infrastructure, infrastructure and budget requirements. Compared to the industry’s standard MPEG-4, G2O-1084 enables higher quality, lower bit rates, lower system cost and new applications for video surveillance and security. Although G2O-1084 needs higher bit rates than G2O-1086 to produce the same results, it significantly reduces CPU usage and offers support for both systems in the same application.

Event Search

Backup with Direct Burn DVD

Multiple Format Export

CMS Management & Control

- **3G Mobile / PDA Remote Viewing & Management**
- **GV-Control Center V2 Pre (Optional)**

3G Mobile / PDA Remote Viewing & Management

- **WebCam & MultiView with Multi-Client Support**
- **Mobile Server (Optional)**
- **GV-Dispatch Server (Optional)**
- **Network Port Information Server**
- **GV-Vital Sign Monitor (VSM) (Optional)**

WebCam & MultiView with Multi-Client Support

Mobile Server

GV-Dispatch Server

Network Port Information Server

GV-Vital Sign Monitor (VSM) (Optional)

Easy Management

- **Custom System Features**
- **Custom DVR Setting Template**
- **Easy Configuration Backup & Restore**
- **Custom Logo, Standby & Video Lost Screen**

Custom System Features

Custom DVR Setting Template

Easy Configuration Backup & Restore

Custom Logo, Standby & Video Lost Screen

Add-on IT Technology

- **UPnP**
- **Backup Server (Optional)**
- **RSA Network Security**
- **Authentication Servers**
- **SSL Encrypted Connection**
- **User-Defined Bandwidth Control**

UPnP

Backup Server (Optional)

RSA Network Security

Authentication Servers

SSL Encrypted Connection

User-Defined Bandwidth Control

Add-on IT Technology