

GV-Video Server Installation Guide

This Installation Guide includes the description of the GV-Video Server components and guides you through the basic setup.

1. Introduction

GV-Video Server is used to transmit real-time digital data through the Internet. To operate the GV-Video Server, connect the power and network cables. No additional equipment or software is necessary. You can see the camera images through a web browser at anytime, from anywhere.

Basic Functions:

- 30 FPS at Full D1 Resolution
- Motion Detection Support
- Privacy Mask Support
- I/O, PTZ and Access Control
- Alerts via Email, FTP, Center V2, NVR, VSM and 3GPP
- Recording and I/O Monitoring Schedule

2. Overview

2.1 Front Panel



No.	Name	Function
1	Video Input	2 plugs for video inputs.
2	Video Stream Switch	The switch is designed for 2 cameras mode in live view. The switch is set in VS01 : dual streams of Video 1 are displayed. VS02 : Video 1 and Video 2 are displayed simultaneously.
3	Audio Input	2 plugs for audio inputs.
4	Speaker Output	A plug for the speaker device.
5	Reset Button	It reboots the GV-Video Server, and keeps all current configurations.
6	Default Button	It resets all configurations to their factory settings. To use this function, follow these steps: (1) Press the Reset Button . (2) Press and hold the Default Button until the 3 LED lights are on. (3) When the Disk LED is off, you successfully return to the default settings.
7	Power LED	This LED is on, indicating the power is supplied.
8	Ready LED	This LED is on, indicating the GV-Video Server is ready for connection.
9	Disk Full LED	This LED is on, indicating the hard drive is full.

2.2 Rear Panel

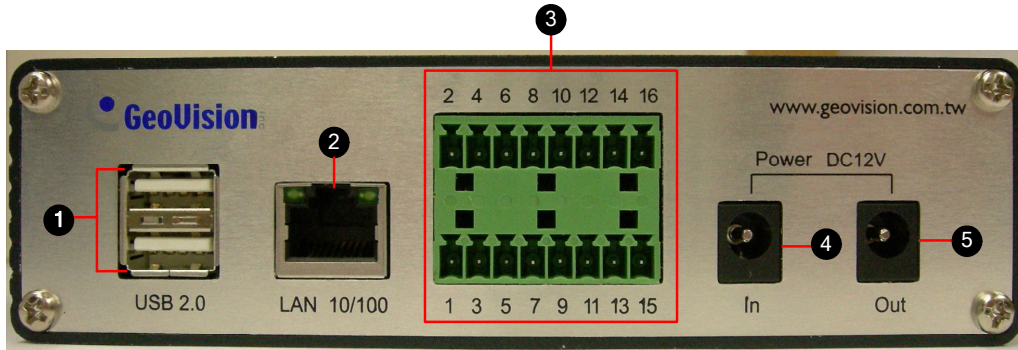
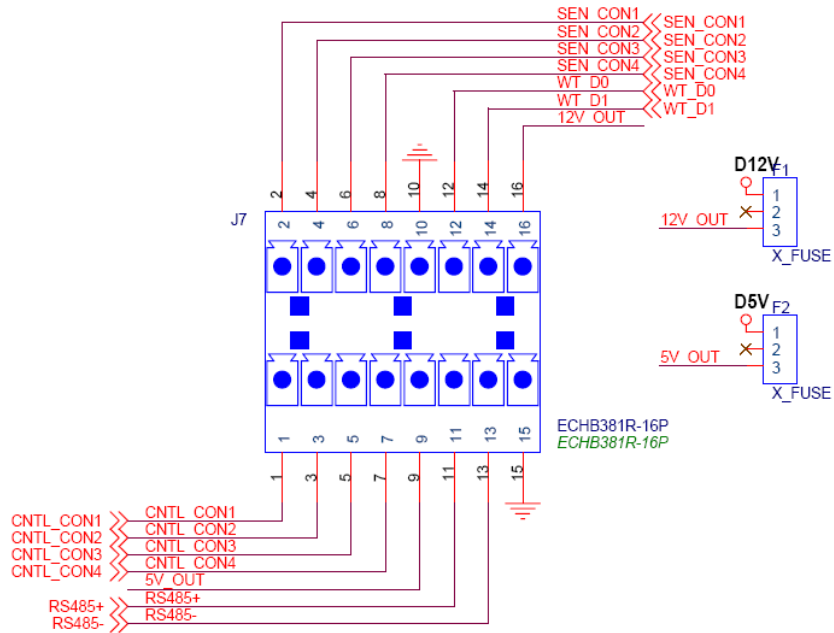


Figure 2

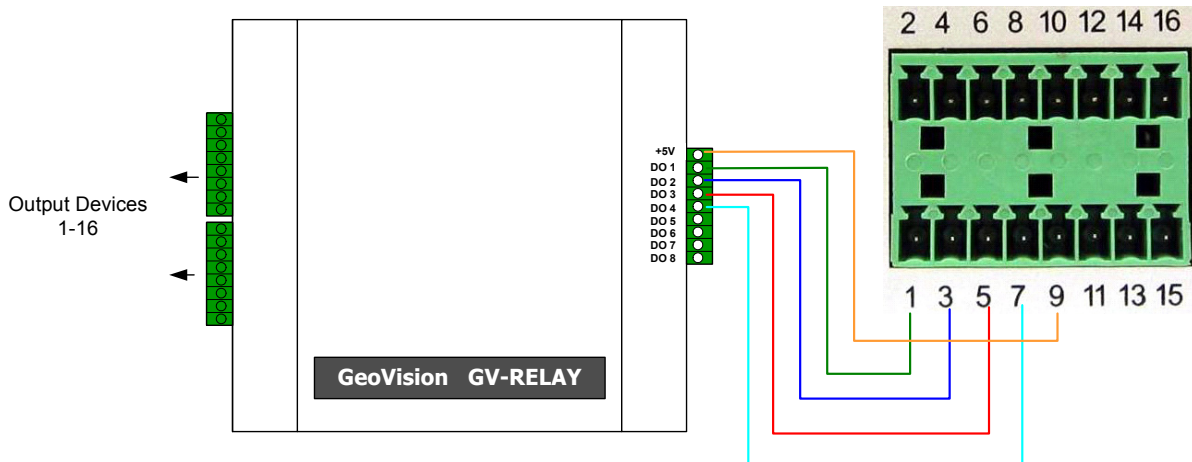
No.	Name	Function
1	USB Port	2 USB ports for installing potable hard drive devices.
2	Ethernet Port	A plug for inserting an Ethernet cable to build the network connection.
3	Terminal Block	The connector for digital inputs, relay outputs, RS±485 and Wiegand interface.
4	Power In	A plug for power input.
5	Power Out	A plug for power output.

Terminal Block Pin Assignment



Pin	Function	Pin	Function
1	Relay Output 1	9	5V Out
2	Sensor Input 1	10	Ground
3	Relay Output 2	11	RS 485+
4	Sensor Input 2	12	Wiegand D0
5	Relay Output 3	13	RS 485-
6	Sensor Input 3	14	Wiegand D1
7	Relay Output 4	15	Ground
8	Sensor Input 4	16	12V Out

Note: The output voltage should not exceed 5V. To apply larger output voltage, you can use the GV-Relay box for connection.



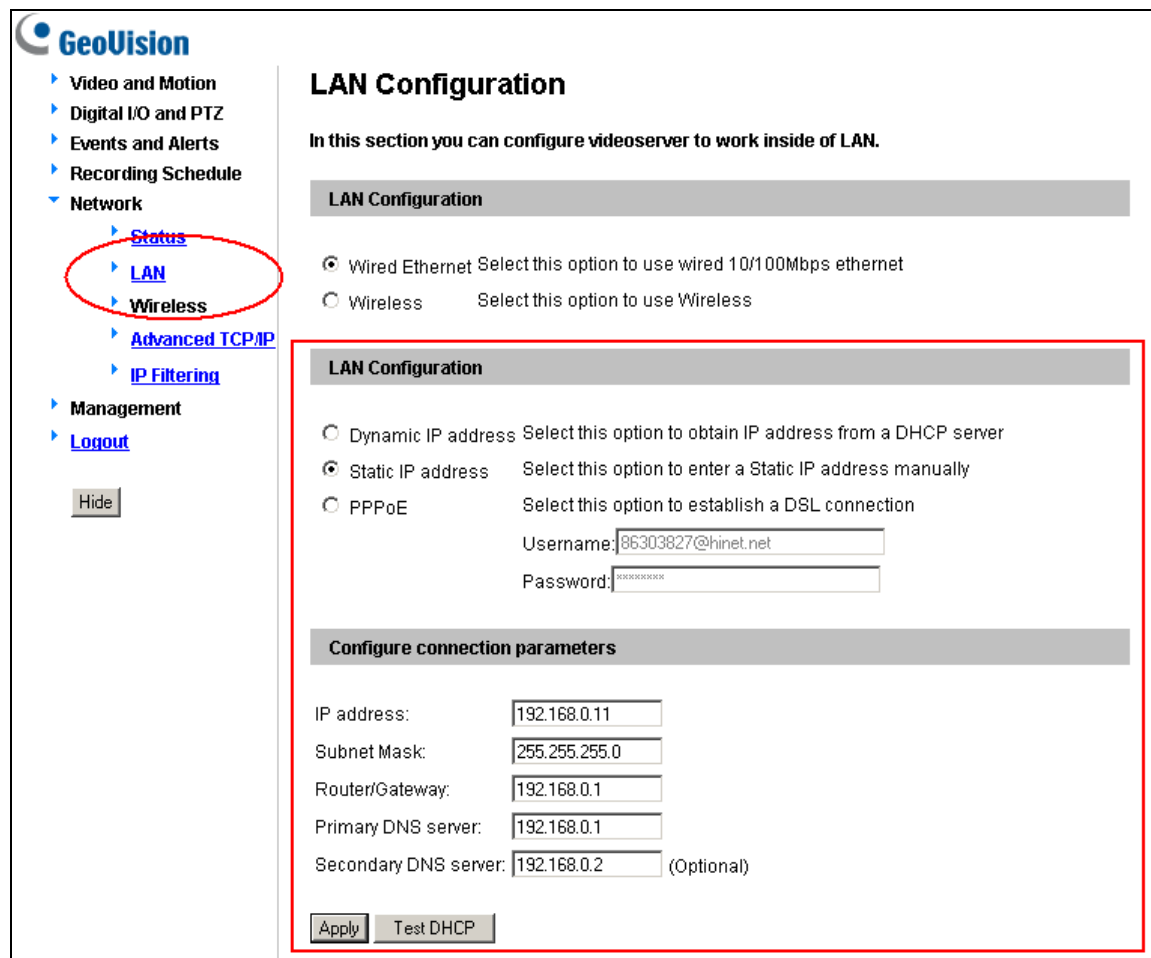
3. Network Settings

Before the GV-Video Server can be used on a network, you must configure the IP address for the unit.

Before you begin:

- Make sure the GV-Video Server is powered up and connected to a computer accessible to Internet.
- The GV-Video Server has a default address of **192.168.0.10**. The IP address of the connected computer must be set within the same Network Group assigned to the GV-Video Server before you can change the unit's IP address.

1. Start your browser, and enter the default IP address <http://192.168.0.10>
2. In both Account and Password fields, type the default value **admin**.
3. Click **Apply**.
4. In the left pane, select **Network** and then **LAN** to begin the network configuration settings.



GeoVision

- ▶ Video and Motion
- ▶ Digital I/O and PTZ
- ▶ Events and Alerts
- ▶ Recording Schedule
- ▶ Network
 - ▶ Status
 - ▶ **LAN**
 - ▶ Wireless
 - ▶ Advanced TCP/IP
 - ▶ IP Filtering
- ▶ Management
- ▶ Logout

Hide

LAN Configuration

In this section you can configure videosever to work inside of LAN.

LAN Configuration

Wired Ethernet Select this option to use wired 10/100Mbps ethernet

Wireless Select this option to use Wireless

LAN Configuration

Dynamic IP address Select this option to obtain IP address from a DHCP server

Static IP address Select this option to enter a Static IP address manually

PPPoE Select this option to establish a DSL connection

Username:

Password:

Configure connection parameters

IP address:

Subnet Mask:

Router/Gateway:

Primary DNS server:

Secondary DNS server: (Optional)

According to your network environment, choose one of the methods to configure the IP address:

Dynamic IP Address	Allow automatic IP address assignment. A DHCP server on the network is required.
Static IP Address	Manually specify the GV-Video Server's IP Address, Subnet Mask, Router/Gateway and DNS Server parameters in the "Configure connection parameters" section.
PPPoE	Used for DSL broadband connections. You need to enter PPPoE username and password from your ISP.

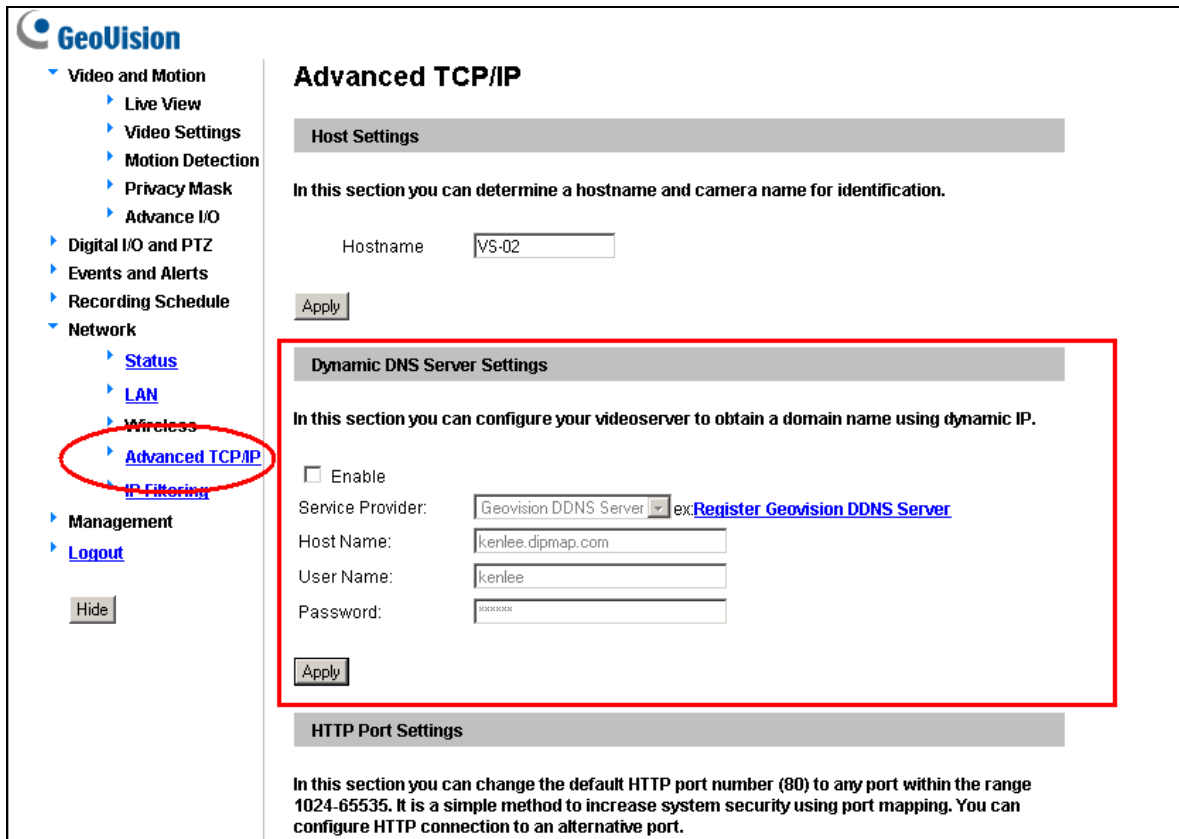
Important:

- Dynamic IP Address should only be enabled if you know which IP address the GV-Video Server will get from the DHCP server, or you can use the Dynamic DNS Server to access the GV-Video Server by a domain name. (see *3.1 Dynamic DNS Server Settings*)
 - If DHCP is enabled and you cannot access the unit, you may have to reset it to the factory default settings (see *Default Button* on page 2) and then perform the network settings again.
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3.1 Dynamic DNS Server Settings

The Dynamic DNS Server settings are only necessary when your GV-Video Server is using a dynamic IP address assigned via DHCP. The Dynamic DNS Server allows you to obtain a domain name that always points to the GV-Video Server's changing IP address.

1. In the left pane, select **Network** and then **Advanced TCP/IP**.



2. Enable Dynamic DNS Server Settings.
3. Click the link **Register GeoVision DDNS Server** and follow the on-screen instructions to register a domain name.
4. Enter the registered Host Name, Username and Password, and click **Apply**.
5. Go back to LAN Configuration (See page 5).
6. Enable **Dynamic IP Address**, and click **Test DHCP** at the bottom.

Specifications

Video

Model		GV-VS01	GV-VS02
Video Standard		NTSC, PAL	
Video Input		1 channel	2 channels
Compression		Geo MPEG4 (ASP)	
Frame Rate	NTSC	30 fps at Full D1 resolution	
	PAL	25 fps at Full D1 resolution	
Resolution		Full D1, Half D1, CIF, QCIF	
Video Streaming		Configurable frame rate and bandwidth, Constant and variable bit rate, Dual Streaming by GV-VS01	
Video Adjustment		Brightness, Contrast, Hue, Saturation, Image Quality, Image Size, Bitrate	

Audio

Model		GV-VS01	GV-VS02
Audio Input		1 channel	2 channels
Compression		G.723	

Management

Event Management	Triggered	Time, Sensor Input, Motion Detection
	Action	Store Video (AVI format), Email with video attachment, Video uploaded over FTP, Center V2, NVR, VSM and 3GPP, Relay output to control external devices
Firmware Upgrade		Remote upgrade by HTTP
Storage		Mass storage through USB (optional)
Client PC Requirements		Microsoft IE 6.x or above running on Windows 2000/XP/2003
Security		IP address filtering

Network

Interface	10/100 Base-T Ethernet, 802.11b/g Wireless LAN (optional)
Protocol	HTTP, TCP, UDP, SMTP, FTP, DHCP, NTP, UPnP, DynDNS

Connector

Video Input	BNC 2 ports
Audio Input	RCA 2 ports
Audio Output	Mini stereo jack
Terminal Block	4 digital inputs, 4 relay outputs, RS±485, 2 Wiegand interface
Ethernet	RJ-45, 10/100 Mbps
USB 2.0	2 ports
Power	2 DC power jacks, 100-240V, 1.5A, 50-60Hz

Alarm

Sensor Input	4 inputs
Alarm Output	4 outputs