WiFi USB Adapter

The WiFi USB Adapter is designed to connect the GV IP devices to the wireless network. This product complies with IEEE 802.11 b/g/n (Draft 3.0) standards for wireless networking.

Compatible GV IP Devices

The WiFi USB Adapter is compatible with any of the following hardware and firmware.

GV-IP Camera
GV-BX1200 Series / 1300 Series / 1500 Series / 2400 Series / 2500 Series / 3400 Series / 5300 Series (firmware V1.15 and later)
GV-BX2600 (firmware V1.00 and later)
GV-BX12201 (firmware V1.00 and later)
GV-MFD1501 Series (firmware V2.08 and later)
GV-MFD2401 Series / 3401 Series / 5301 Series (firmware V2.09 and later)
GV-MFD2501 Series (firmware V2.11 and later)
GV-FE2302 / FE3402 / FE5302 / FE3403 / FE5303 (firmware V2.12 and later)
Accessory for GV-IP Camera
GV-Pad (firmware V1.02 and later)
GV-Video Server
GV-Video Server

GV-VS2420 (firmware V1.00 and later) GV-VS2400 (firmware V1.01 and later) GV-VS14 (firmware V1.0 and later) GV-VS12 (firmware V1.05 and later) GV-VS11 (firmware V1.0 and later)

GV-Compact DVR

GV-Compact DVR V3 4-CH series (firmware V1.01 and later) GV-Compact DVR V3 8-CH series (firmware V1.0 and later)

Digital Signage

GV-PN300 (firmware V1.01 and later) GV-SQP133 (firmware V1.01 and later)



Packing List

WiFi Adapter

- 1. WiFi USB Adapter
- 2. Installation Guide

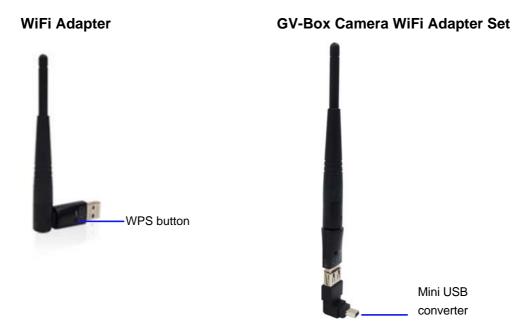
GV-Box Camera WiFi Adapter Set

- 1. USB to Mini USB Converter
- 2. WiFi USB Adapter
- 3. Installation Guide

Note: For the GV-Box Camera listed above, you may purchase the GV-Box Camera WiFi Adapter Set, which includes a USB to mini USB converter.

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Overview



Automatic Connection to Wireless Network

The WiFi Adapter is equipped with a WPS button which is designed for automatic connection to the router. Press the WPS button on the WiFi Adapter and on the router in any order for a few seconds. Wireless connection will be automatically established between the two.

Manual Connection to Wireless Network

The WiFi USB Adapter is a plug-and-play device that means you don't need to install any driver for the device to work. To manually connect GV-Box Camera, GV-Compact DVR or GV-Video Server to wireless network, follow the steps below.

- 1. Connect the WiFi USB Adapter to the GV IP device.
- 2. Set up WLAN Configuration on the GV IP device.
 - A. Start the Internet Explorer browser, and enter the IP address or the domain name of the IP device to access its Web interface.



B. From the left menu, select **Network**, select **Wireless** and select **Client Mode**. This page appears.

SeoUision		WLAN Configur	ation (Client Mode)	
Video and Motion	^	In this section you can configure your GV-Compact DVR to act as Wireless Client.		
Digital I/O and PTZ				
Events and Alerts		Wireless Client Setting)	
Monitoring				
Recording Schedule		Network type	🔿 Ad Hoc 💿 Infrastructure	
Remote Viewlog		Network name (SSID)	default Access Point Survey	
Network		Authentication Type	Disable V	
Status		WPA-PSK Pre-shared Ke	v 12345678	
▶ LAN		WEP		
Wireless		VVEF		
Client			C Key 2 HEX V	
Mode			🔿 Key 3 HEX 🔽	
Advanced	≡		○ Key 4 HEX 🔽	
ТСРЛР		<u> </u>		
UMTS/ZigBee		Apply		

- C. Select the network type **Ad Hoc** or **Infrastructure**. The default network type is **Infrastructure**.
 - Infrastructure: Via the Access Point to connect to the Internet. This mode further gives wireless access to the Internet or data sharing under a previously wired environment.
 - Ad-Hoc: A Peer-to-Peer mode. This mode connects to other computer with the WLAN card, and does not need the Access Point to connect to each other.
- D. Enter the Network name (SSID) of the wireless LAN group or Access Point you are going to connect to. If you can't specify the network name, click Access Point Survey to detect all the available Access Points (Infrastructure mode) and wireless stations (AD-Hoc mode) within the range of your WLAN card.
 - a. Click Access Point Survey. This window appears.

	Access Point List						
Cell	Address	Mode	ESSID	Encryption key	Channel	Quality	Selection
1	00:21:29:BF:4D:38	Managed	linksys	off		100/100 Signal level:-49 dBm Noise level:-92 dBm	Select
2	00:22:2D:4D:45:98	Managed	SMCWBR14S- NL	on		94/100 Signal level:-53 dBm Noise level:-92 dBm	Select
3	00:0A:79:81:F9:40	Managed	CPM2	on		7/100 Signal level:-87 dBm Noise level:-92 dBm	Select
4	00:0D:88:44:E2:63	Managed	mobile	off		78/100 Signal level:-59 dBm Noise level:-92 dBm	Select
5	00:0F:3D:4C:96:AA	Managed	HW2	on		47/100 Signal level:-71 dBm Noise level:-66 dBm	Select
6	00:24:01:68:2D:38	Managed	dlink	off		94/100 Signal level:-53 dBm Noise level:-92 dBm	Select

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- b. Click **Select** to select the router with which you want to associate.
- E. Select the network authentication and data encryption in the **Authentication Type** drop-down list. Your encryption settings must match those used by the Access Points or wireless stations with which you want to associate.
 - Disabled: No authentication is needed within the wireless network.
 - WEP (Wired Equivalent Privacy): A type of data encryption. Type up to four WEP Keys in HEX or ASCII format. Note that if you use HEX format, only digits 0-9 and letters A-F, a-f are valid.
 - WPAPSK-TKIP and WPA2PSK-TKIP: Type WPA-PSK (Pre-Shared Key) for data encryption.
 - WPAPSK-AES and WPA2PSK-AES: Type WPA-PSK (Pre-Shared Key) for data encryption.
- F. Click Apply.
- 3. Enable Wireless mode on the GV IP device.
 - A. Select Network from the left menu, and select LAN. This page appears.

GeoUision	LAN Configuration		
Video and Motion	In this section you can configure GV-Compact DVR to work inside of LAN.		
Digital I/O and PTZ	LAN Configuration		
Events and Alerts			
Monitoring	Wired Ethernet Select this option to use wired 10/100Mbps ethernet		
Recording Schedule	O Wireless Select this option to use Wireless		
Remote Viewlog	LAN Configuration		
Network			
Status LAN Wireless Client	 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 		
Mode	Username:		
	Password		
Advanced	Configure connection parameters		
ТСРЛР	contigure controction parameters		
UMTS/ZigBee	IP Address: 192.168.1.107		
Multicast	Subnet Mask: 255.255.252.0		
IP Filtering	Router/Gateway: 192.168.0.1		
SNMP Setting			
Management	Primary DNS: 192.168.0.1		
Logout	Secondary DNS: 192.168.0.2 (Optional)		
~~	Apply Test DHCP		

B. Select Wireless.



- 4. Select **Static IP address** or **Dynamic IP address** for LAN configuration. The default setting is **Static IP address**.
 - Static IP address: Assign a static IP or fixed IP to the GV IP device.
 - Dynamic IP address: The network environment has a DHCP server that automatically assigns a dynamic IP address to the GV IP device. This option should only be enabled if you know which IP address the GV IP device will get from the DHCP server, or you have obtained a domain name from the DDNS service provider.

For users who select Static IP address:

A. Enter the GV IP device's TCP/IP and DNS parameters in the **Configure connection parameters** section.

Multicast	Configure connection parameters
IP Filtering	
SNMP Setting	IP Address: 192.168.1.107
Management	Subnet Mask: 255.255.252.0
Logout	Router/Gateway: 192.168.0.1
	Primary DNS: 192.168.0.1
	Secondary DNS: 192.168.0.2 (Optional)
	Apply Test DHCP

B. Click **Apply**. The configuration is complete.

For users who select Dynamic IP address:

- A. Select Dynamic IP address, and click Apply.
- B. Click **Test DHCP** to verify the setting. A window similar as the following example appears.

Configure connection parameters	🗿 http://192.168.1.107/ssi.cgi/TestDhcpWire.htm - Microsoft Internet Explorer	
IP Address: 192.168.1.107 Subnet Mask: 255.255.252.0 Router/Gateway: 192.168.0.1 Primary DNS: 192.168.0.1	DHCP test passed 192.168.3.183 @ Wired interface	<
Secondary DNS: 192.168.0.2 (Optional)	街 Done 🔹 🔮 Internet	.::

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Note: If you select **Dynamic IP Address**, the IP address of the GV IP device assigned by DHCP Server may change.

- 1. To detect the IP address, you can use the IP Device Utility on Software CD of the GV IP device.
- 2. It is recommended to use DDNS service that redirects the ever-changing IP address to a domain name. You can find the DDNS settings in the Advanced TCP/IP option from the left menu, and instructions in the user's manual.

Specifications

Network Standard	IEEE 802.11 b/g/n (Draft 3.0)
Chipset	Ralink RT3070
Host Interface	USB 2.0 Backward Compatible (Standard-A Type connector)
Operating Frequency	802.11b/g/n (2412 ~ 2484 MHz)
Dimensions (L x W x H)	15 x 15 x 155 (mm) / 0.59 x 0.59 x 6.10 (in)
WPS Support	Yes