![GeoVision Inc. logo]

GV-VR605A DC Voltage Regulator

The GV-VR605A is a voltage regulator designed to be installed in the car and supply power to GV-Video Server and its connected cameras. The GV-VR605A is capable of maintaining a 12V voltage to the GV-Video Server and its connected cameras, providing protection against voltage spikes when you turn on the car ignition. After you turn off the car ignition, the GV-VR605A will continue supplying power to the GV-Video Server for 75 seconds during which GV-Video Server will stop recording, remove the hard drive from the system and then turn off automatically. The GV-VR605A features 5 power outputs to power the GV-Video Server and its connected cameras.
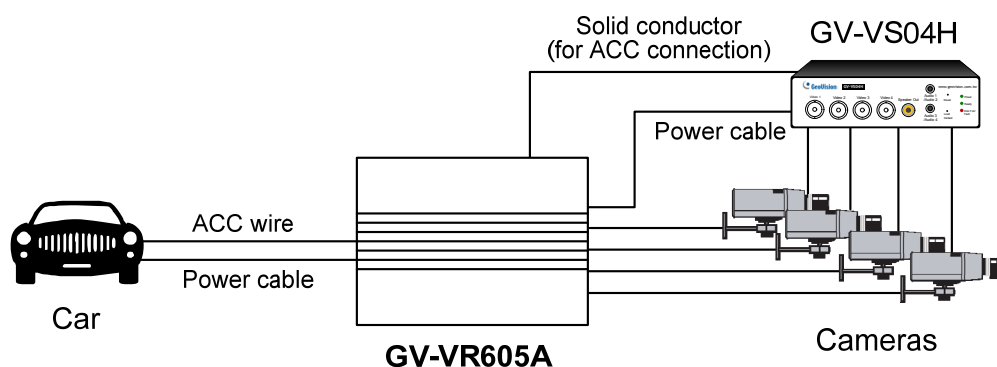

Packing List

1. GV-VR605A Automotive Voltage Regulator x 1
2. Mini-DIN 4P Power Cable x 1
3. Terminal Block x 11

Applied to

| GV-Video Server	Firmware Version
GV-VS04A	V1.05 or later
GV-VS04H	V1.05 or later
GV-VS11	V1.00 or later
GV-VS12	V1.05 or later

Note: If you want to use a hard disk to store data, it is required to use the hard disk especially for notebook, vehicle or surveillance applications, and tightly fasten the hard disk and GV-Video Server on the vehicle to prevent vibration and shock hazard.

Overview
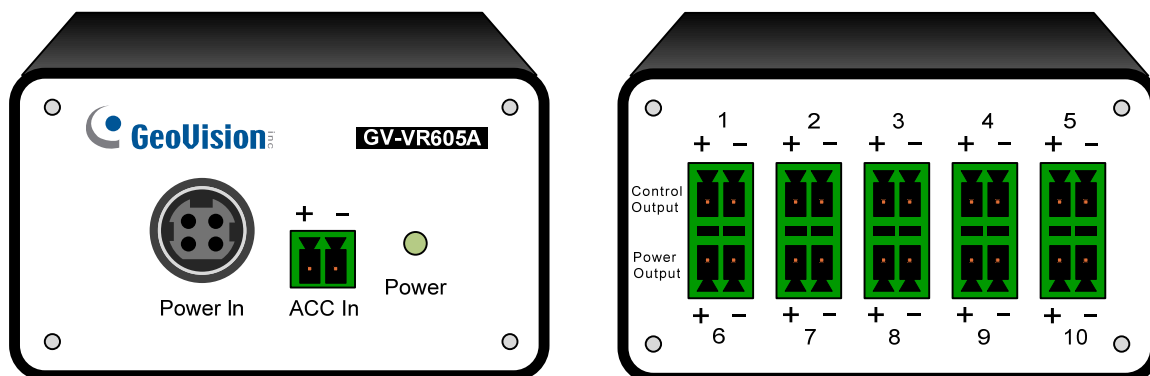
Connections

For the following installation, you need to identify the car's power cable, ground cable and ACC wire. Since each car differs in design, refer to the owner's manual of your car for details or have the installation done by a properly trained technician.
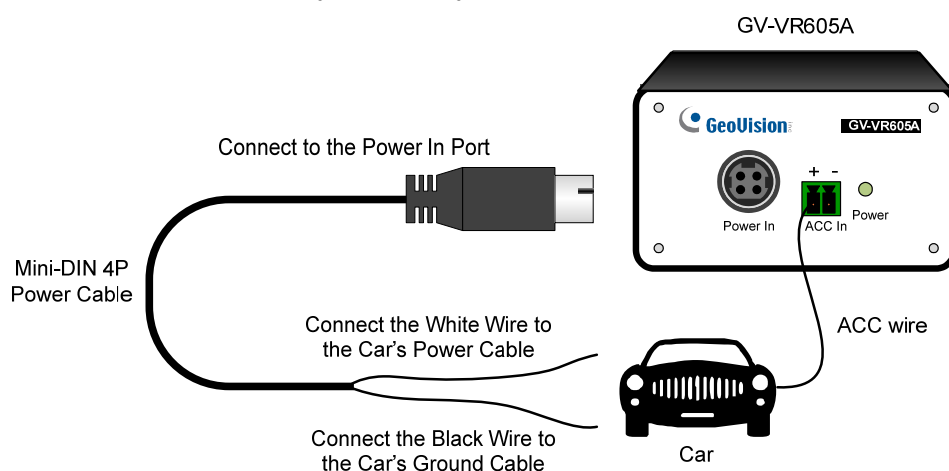
1. Pull out the car's power cable and ground cable under the steering wheel.

2. Connect the car's power cable with the white wire of the supplied **Mini-DIN 4P Power Cable** and the car's ground cable with the black wire.

3. Connect the supplied **Mini-DIN 4P Power Cable** to the **Power In** port on the GV-VR605A.

4. Pull out the car's ACC wire and then connect the ACC wire to the **ACC In (+)** pin on the GV-VR605A.

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5. Connect the power cable from the **Power In** port on the GV-Video Server to the **Power Output** port on the GV-VR605A.

GV-VR605A   GV-VS04H
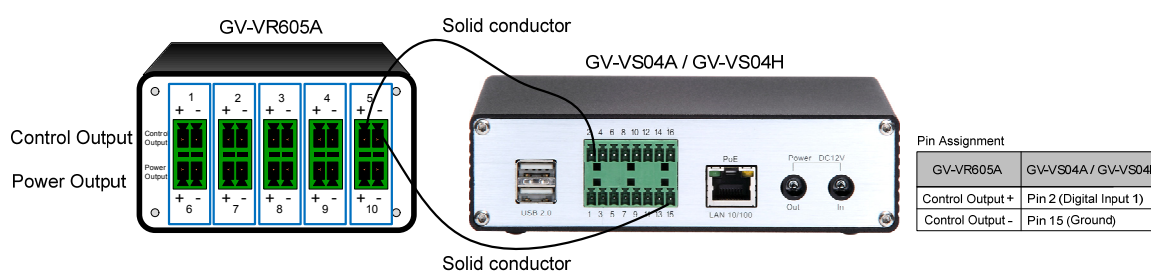
Control Output
Power Output
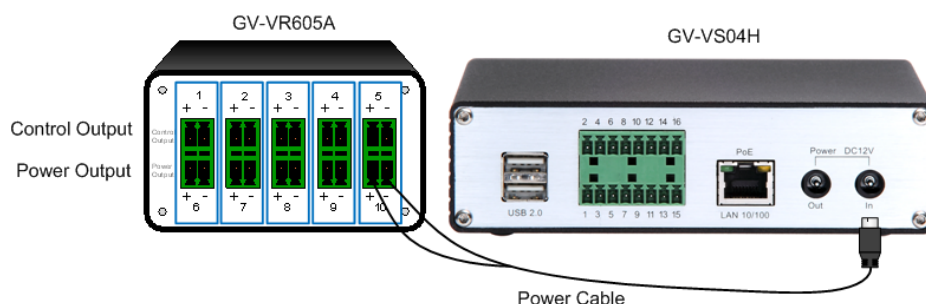
Power Cable

Note: The power cable is not supplied in the package. You will have to prepare the power cable for the connection between the GV-VR605A and the GV-Video Server.
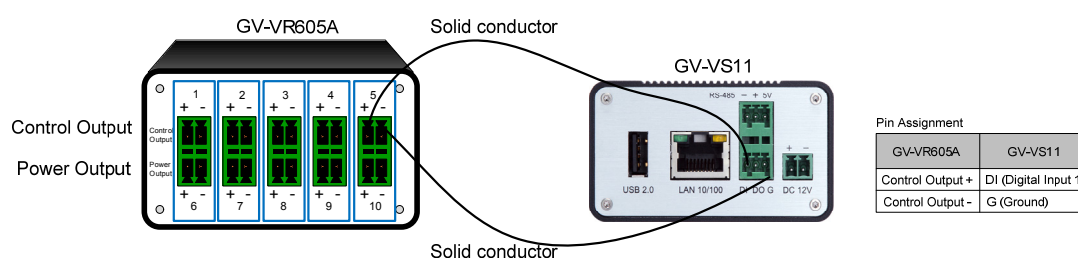
6. Connect one solid conductor (20 AWG) from the **Digital Input 1** pin on the GV-Video Server to the **Control Output (+)** pin on the GV-VR605A; and the other solid conductor from the **Ground** pin on the GV-Video Server to the **Control Output (-)** pin on the GV-VR605A.

Note: The solid conductors are not supplied in the package. You will have to prepare the solid conductors for the connection between the GV-VR605A and the GV-Video Server.
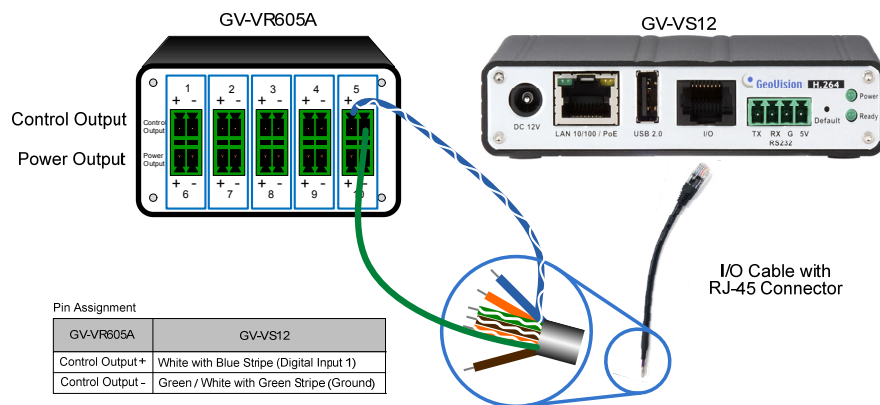
GV-VS04A / GV-VS04H:

Solid conductor

GV-VR605A   GV-VS04A / GV-VS04H

Control Output
Power Output

Solid conductor

Pin Assignment

GV-VR605A	GV-VS04A / GV-VS04H
Control Output +	Pin 2 (Digital Input 1)
Control Output -	Pin 15 (Ground)

GV-VS11:

Solid conductor

GV-VR605A   GV-VS11

Control Output
Power Output

Solid conductor

Pin Assignment

GV-VR605A	GV-VS11
Control Output +	DI (Digital Input 1)
Control Output -	G (Ground)

GV-VS12:

Pin Assignment	
GV-VR605A	**GV-VS12**
Control Output +	White with Blue Stripe (Digital Input 1)
Control Output -	Green / White with Green Stripe (Ground)

7. Connect the power cables from the **Power Output** ports to the cameras connected with the GV-Video Server.
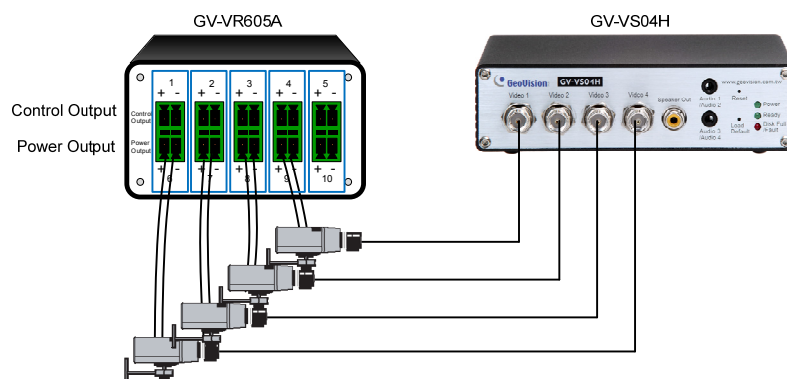
Note: The power cables are not supplied in the package. You will have to prepare the power cables for the connection between the GV-VR605A and the cameras.

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8. To enable ACC function, on the Web interface of GV-Video Server, click **Monitoring** from the left menu, enable **Stop monitoring by** and select **Input 1**. Enable **ACC signal** and then click **Start**.

9. When you turn on the car ignition, the power of the GV-VR605A turns on and the Power LED on the front panel of the GV-VR605A turns green.

Specifications

Power Input	10 V ~ 36 V DC
Power Output	12 V, 5 A (60W Max.) / 12 V, 1 A (per port)
Operation Temperature	-10 °C ~ 50 °C / 14 °F ~ 122 °F
Dimensions (L x W x H)	66 x 69 x 40 mm / 2.6 x 2.72 x 1.57 in
Weight	210 g / 0.46 lb