

GV-AS1620 Controller

User's Manual



Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.

AS1620V201-A

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Scan the following QR codes for product warranty and technical support policy:





[Technical Support Policy]

Optional Devices	i
Chapter 1 Introduction	1
1.1 Key Features	1
1.2 Firmware and Software Compatibility	2
1.3 Packing List	2
1.4 Overview	3
Chapter 2 Installing on a Network	3
2.1 Checking the Dynamic IP Address	4
2.2 Configuring the Static IP Address	5
2.3 Configuring DDNS Connection	5
Chapter 3 The Web Interface for GV-ASManager Connection	11
3.1 Basic Settings	12
3.1.1 System Setup	12
3.1.2 Firmware Update	11
3.1.3 Security Configuration	12
3.2 Advanced Settings	12
3.2.1 Function Configuration	13
3.2.2 Parameter Configuration	16
3.2.3 Time Configuration	18
3.2.4 Input Configuration	19
3.2.5 Output Configuration	19
3.2.6 Log Viewer	20
3.2.7 System Log Viewer	20
3.3 Extended Device	21
Chapter 4 The Web Interface for GV-Cloud Access Control Connection	n 25
4.1 Basic Settings	26
4.1.1 System Setup	26
4.1.2 Firmware Update	28
4.1.3 Security Configuration	29
4.2 Advanced Settings	31
4.2.1 Function Configuration	
4.2.2 Parameter Configuration	
4.2.3 Card Configuration	35
4.2.4 Time Configuration	
4.2.5 Input Configuration	
4.2.6 Output Configuration	36

Contents



Chapter 5 Troubleshooting	44
4.3.2 Extended Camera Configuration	
4.3.1 Extended Reader Configuration	37
4.3 Extended Device	
4.2.7 System Log Viewer	36

Optional Devices

Optional devices can expand the capabilities and versatilities of your controller. Consult our sales representative for more information.

GV-AS ID Card / Key Fob & GV-UHF Tag	GV-AS ID Card and GV-AS ID Key Fob are ideal for business and residential environment, where access control is important for security reasons. 125 KHz and 13.56 MHz cards and key fobs are available. GV-UHF Tag is ideal for parking lot management. 900 MHz UHF Tag is available.
GV-FWC	GV-FWC can integrate GV-Face Recognition Cameras (GV-FD8700- FR / GV-VD8700) into access control systems by sending access card data, paired to Face IDs, to controllers either through TCP/IP or Wiegand connection.
GV-IB25 / 65 / 85 Infrared Button	The GV-IB25 / 65 / 85 Infrared Button detects infrared movement within 3 to 12 cm and allows you to open the door with a wave of hand.
GV-POE Switch	The GV-POE Switch is designed to provide power along with network connection for IP devices. The GV-POE Switch is available in various models with different numbers and types of ports.
GV-WTR	GV-WTR is a converter designed to support Wiegand interface to RS- 485 interface, thereby enabling 3 rd party readers to be connected to RS-485 GV-Controllers. Through the GV-WTR, Wiegand-interface readers can be easily combined to access control systems for improved versatility.
Electric Lock	Three types of electric locks are available: electromagnetic lock, electric bolt and electric strike.
Power Adapter	Contact our sales representatives for the countries and areas supported.
Push Button Switch	The push button switch can be integrated with access control system, allowing door exit by momentarily activating or deactivating the electric locking device. Both American standard and European standard push buttons are available.

Chapter 1 Introduction

GV-AS1620 is a single door controller with three types of interfaces, Wiegand, RS-485 and TCP/IP, to accommodate various readers for entry and exit management. Through its I/O pins, it provides not only basic door operations but also alarm, tamper and fire senor applications, as well as allowing LEDs connected to indicate an access granted and denied.

When directly connecting to IP cameras or connecting IP cameras using the GV-Cloud Bridge encoder, GV-AS1620 (firmware V2.00 or later) can transmit the snapshots, live view, and playback recordings to GV-Cloud Access Control upon access events.

1.1 Key Features

- One door IP controller (entry and exit)
- 3 types of interfaces, Wiegand, RS-485 and TCP/IP
- OSDP communication through RS-485
- 4 digital inputs for door contact, exit button, fire contact and tamper contact
- 4 relay outputs for lock, alarm, 2 LED for an access granted and access denied
- DC 12V, 3A / PoE+ (IEEE 802.3at)
- Stores up to 100,000 cards
- Suitable for door, parking lot and elevator controls
- GV-Cloud Access Control integration (firmware V2.00 or later)
- ONVIF (Profile C) conformant



1.2 Firmware and Software Compatibility

The GeoVision software versions compatible with GV-AS1620 are listed below.

Softwara	GV-AS1620 Firmware Version							
Sontware	V1.00	V1.01	V1.02	V1.03	V1.04	V1.05	V1.10	V1.11
GV-ASManager	V5.2.0	V5.3.0	V5.3.0	V5.3.0	V5.3.2	V5.3.3	V6.0.1	V6.0.1

IMPORTANT: GV-AS1620 firmware V2.00 or later is only for GV-Cloud Access Control applications.

1.3 Packing List

- 1. GV-AS1620
- 2. Warranty Card
- 3. Download Guide

1.4 Overview



Figure 1-1

Pin	Definition	Pin	Definition	Pin	Definition
DO 1	Lock	DI 1	Door Contact	Wiegand A	Entry Reader
DO 2	Alarm	DI 2	Exit Button	Wiegand B	Exit Reader
DO 3	LED / Beeper for Access Granted	DI 3	Fire Contact	RS-485 +/-	RS-485 / OSDP Reader
DO 4	LED / Beeper for Access Denied	DI 4	Tamper Contact		

Control	Definition
DC 12V	Power output for compatible devices connected
Web Setting Switch	GUI security lock. Switch on to lock all system configurations on the Web interface of the controller.
Default Button	Reset the controller to factory default if it is not functioning correctly. To do this, hold down the Default button with a pointy object such as the tip of a pen for 3 to 5 seconds.

Chapter 2 Installing on a Network

Through a network connection, you can access the controller's Web interface and connect it to access control software for more comprehensive management. There are three ways to set up the controller on network.

- By default, when the controller is connected to a network with a DHCP server, a dynamic IP address will be assigned to the controller. See 2.1 Checking the Dynamic IP Address to look up its IP address.
- 2. When the DHCP server on your network is unavailable or disabled, the controller is accessible by its default IP address **192.168.0.100**. See *2.2 Configuring the Static IP Address*.
- 3. You may also use a DDNS (Dynamic Domain Name System) server to access the controller. For details on domain name service, see *2.3 Configuring DDNS Connection*.



2.1 Checking the Dynamic IP Address

Follow the steps below to look up the IP address and access the Web interface of the controller.

1. Download and install GV-IP Device Utility from our website.

Note: The PC installed with GV-IP Device Utility must be under the same LAN as the controller you wish to configure.

- 2. On the GV-IP Device Utility window, click the Q button to search for the IP devices connected in the same LAN.
- 3. Click the Name or Mac Address column to sort.
- 4. Find the controller with its MAC address, click on its IP address and select Web Page.

🚇 IP Device Utility				_	×
File Tool Version User Guide					
🔍 松 🕂	X 🔅 .				
General settings					
Name 🔻	Mac Address	IP Address	Firmware Version	NOTE	^
94. 🔊 GV-ADR4701	0013E2F775AF	<u>192.168.7.113</u>	v1.06 2019-03-15	GV-ADR4701	
95. 🛃 GV-AS1620	0013E2250F29	192.169.0.02 Web	Page	GV-AS1620	
96. 🔊 GV-AVD2700	0013E2F7F843	<u>192.16</u> Con	figure -15	GV-AVD2700	
97 🔊 GV-AVD2700	0013E2E7E841	192 168 0 215	v1.02.2019-03-15	GV-AVD2700	

Figure 2-1

5. When the login dialog box appears, type the default **admin** for both username and password and click **OK** to log in.

2.2 Configuring the Static IP Address

By default, the controller uses a DHCP connection. However, you can follow the instructions below to configure a static IP address.

- 1. Open an Internet browser, and type the default IP address <u>https://192.168.0.100</u> or the dynamic IP address. The login dialog box appears.
- 2. Type default value **admin** for both username and password, and click **OK**. This page appears.

Network Configu	ration				
Machine Name					
Machine Name: Cor	ntroller 2				
DHCP Client					
 Enable Disable 					
IP Address:	192	. 168 .	2	. 168	
Subnet Mask:	255	. 255 .	248	. 0	
Default Gateway:	192	. 168 .	0	. 1	
Domain Name Server:	0	. 0 .	0	. 0	

Figure 2-2

- 3. In the **DHCP Client** section, select **Disable**. Type the static IP address information, including IP Address, Subnet Mask, Default Gateway and Domain Name Server.
- 4. Click **Submit**. When the setting is complete, the Status field will indicate *Register Success*. Then the controller can be accessed with this fixed IP address.

2.3 Configuring DDNS Connection

DDNS (Dynamic Domain Name System) provides another way to access the controller when using a dynamic IP. DDNS assigns a domain name to the controller so that it can always be accessed using the domain name. The controller supports two DDNS services: GeoVision DDNS and DynDNS.org (Dynamic Network Services Inc.).



Note:

- Dynamic DNS uploads IP addresses over the Internet through ports 80 and 81. If your controller is behind a router or firewall, make sure the two ports are enabled. Dynamic DNS will only upload global IP addresses. If your controller uses virtual IP, NAT port mapping should be done first.
- 2. The DDNS service is provided purely as a favor to you. We hope it simplifies the process of trying to connect an IP video device to the network. GeoVision does not and cannot warrant that the DDNS service will be uninterrupted or error free. Please read Terms of Service carefully before using the service.

To enable the DDNS function, you first should register a domain name from one of the two supported DDNS service provider's websites.



Figure 2-3

2.3.1 Registering a DDNS Domain Name

To obtain a domain name from the GeoVision DDNS Server:

 Click the GeoVision DDNS button on the Network Configuration page (*Figure 2-2*). Or open an Internet browser, and type the Web address <u>http://ns.gvdip.com/register.aspx</u>. The GV-Dynamic DNS Service V2 page appears.

Domain Name Service		
O Disable		
Enable DDNS	GeoVision DDNS ▼	GeoVision DDNS
Host Name:		
User Name:		
Password:		
Status:		
Submit Cancel		
	Figure	2-4
GV-Dyna Register	amic Dl	VS Service V2
Hostname Password: Re-type Password:	.gvdip.com	Hostname Hostname is 16-character maximum; hostname may not start with spaces or minus signs ('-'). Password The password is case-sensitive.
		Mand Varifiantian
Enter the characters as they	are shown in the box belo	W. Word Verification This step helps us prevent automated registrations.
	Send	afrash

Figure 2-5

- 2. Type a Hostname and Password based on the requirements noted on the page.
- 3. Type the characters or numbers shown for word verification, and click Send.
- When the registration is complete, this page appears. The Hostname is the domain name, consisting of the registered username and "gvdip.com", e.g. somerset02.gvdip.com.



Figure 2-6



Note:

- 1. The registered username will be invalid when it is not used for three months.
- 2. For GV-AS1620 firmware V2.00 or later: Optionally, you can type the backup DNS next to **Override Primary Domain Name Server** under the **DHCP Client** section to prevent the malfunction of the set DNS.

2.3.2 Configuring the Controller on Internet

After acquiring a domain name from the DDNS Server, you need to configure the registered domain name on the controller in order to access the unit by the domain name on Internet.

- 1. Open an Internet browser, and type the controller's IP address. The login dialog box appears.
- 2. Type the username and password of the controller, and click **OK**. The Network Configuration page appears.
- 3. Select Enable DDNS.
- Type Host Name, User Name and Password that are registered on the DDNS Server. If GeoVision DDNS is used, the system will automatically bring up the Host Name.

Domain Name Ser	vice		
 Disable 			
Enable DDNS	GeoVision DDNS V	GeoVision DDNS	
Host Name:	sohachang.g	jvdip.com	
User Name:			
Password:	•••••	•	
Status:			
Submit Cano	el		

Figure 2-7

5. Click **Submit**. When the setting is complete, the Status field will indicate: *Register Success*. Then the controller can be accessed with the domain name.

Chapter 3 The Web Interface for GV-ASManager Connection

After installing the controller on the network, you can configure the controller's settings on the Web interface. The left menu of the Web interface is divided into three sections: **Basic Setting**, **Advanced Setting** and **Extended Device**.

IMPORTANT: The GV-ASManager applications are only available for GV-AS1620 firmware V1.XX or earlier. See *1.2 Firmware and Software Compatibility* for details.



Figure 3-1



3.1 Basic Settings

The Basic Settings section covers general system settings, firmware update and user account settings. For details on Network Configuration, refer to *Chapter 2 Installing on a Network*.

3.1.1 System Setup

In the left menu, click Other Configuration. This page appears.

Other Configura	ation				
3DES Code					
3DES Code1:	•	•••••		(characters 8	~ 24)
3DES Code2:				(optional)	
3DES Code3:				(optional)	
AS-Manager Configu	iration				
Device Port:		4000			(from 1025 to 65535)
GV-ASManager Conne Status:	ection				
Mac Address / Firmw	are Versio	n			
Mac Address: Firmware Version:	00:13:E2 V1.0.0_2	2:25:16: <i>4</i> 0190902	48 2		
Reboot System					
Reboot System:	Reboot				
Configuration Contro	bl				
Default Value:	D	efault			
Backup Configuration	1: D	ownload	Backup		
				Browse	Upload
Restore Configuration	n:				
Submit Cancel]				

Figure 3-2

3 The Web Interface for GV-ASManager Connection

- 3DES Code 1-3: Stands for Triple DES (Data Encryption Standard). Type up to three different keys for data encryption. The default 3DES Code1 is 12345678.
- **Device Port:** Keeps the default value **4000**. Or modify it to match that of GV-ASManager.
- GV-ASManager Connection Status: If the controller is successfully connected to GV-ASManager, the IP address of GV-ASManager will be automatically brought up here.
- Mac Address: Indicates the MAC address of the network medium.
- Firmware Version: Indicates the current firmware version of the controller.
- Reboot System: Performs a warm boot of the controller. This operation will keep the current system configuration.

[Configuration Control]

- Default Value: Resets all configuration parameters to factory settings. This may take 5 seconds to complete.
- Backup Configuration: To backup controller settings, click Download Backup. A .bin file will be exported. You can then import the file to another controller to avoid setting each controller individually. Note that network settings, such as IP address and hardware ID, will NOT be included in the backup file.
- Restore Configuration: To import controller settings, click Browse, select the .bin file previously exported, and click Upload.



3.1.2 Firmware Update

Follow the steps below to update the firmware of the controller.

1. In the left menu, click Firmware Update. This page appears.

After pressing the request is being pro- will reboot auto	Firmwa Update butt cessed. Afte omatically.`	re Update ton, please wait while er update is complete You can re-login afte	the update d, the device rwards.
Select Firmware:		Browse	
	Upload		
Jpdate State:			
Jpdate Process:		0 %	

Figure 3-3

- 2. Click **Browse** and select the firmware file.
- 3. Click **Upload**. This update process may take 60 seconds to complete.
- 4. When the update is complete, you will be asked to reboot the system.
- 5. Click **OK** to restart the controller.

Note:

- 1. Make sure the controller remains powered on during the firmware upgrade.
- 2. The controller must be rebooted following the firmware update. Without a reboot, the firmware update is not complete.

3.1.3 Security Configuration

Follow the steps below to change the login ID and password.

- 1. In the left menu, click Security Configuration.
- 2. Modify the login name and password. The password is case sensitive and is limited to alphabets and numbers.

Security Configura	ation	
Account:		
Account Name:	admin]
Password:		
Change Password: Confirm Password:	••••	
Submit Cancel		

Figure 3-4

3.2 Advanced Settings

Under Advanced Settings, you can configure door settings, turn on alarms, set the device time, edit input / output functions and view system logs.

Changes made on some of the Advanced Settings pages will affect the options available on other pages. The relationships between each Advanced Settings page are depicted in the diagram below.



Figure 3-5



3.2.1 Function Configuration

In the left menu, click **Function Configuration**. This page appears.

Function Config	guration
ID	
ID:	162
Door/Gate A	
Function:	Door Control
Authentication Mode:	Authentication Schedule Mode
Series Function(/	APB & Fire)
Enable/Disable:	Disable 🔻
Info IP:	0.0.0.
Wiegand Card Fil	ter Setting
meguna cura rin	ter setting
Wiegand A Filter:	Disable 🔻
Wiegand A Filter	10 (3~60 seconds)
Duration:	
Wiegand B Filter:	Disable 🔻
Wiegand B Filter Duration:	10 (3~60 seconds)
Camera Mapping	
Enable/Disable:	Disable V
First Camera:	0 0 0 0 0
User Name:	admin
Password:	•••••
HTTP Event (Care	Log Notification)
Enable/Disable:	Disable 🔻
Event IP:	0.0.0.8080
Submit Can	cel

Figure 3-6

[ID]

Enter the ID number for the controller. This ID is used by GV-ASManager to differentiate among multiple controllers. ID number can only be between 1 and 1000.

[Door/Gate A]

Select the function type and authentication mode for the use of the door/gate.

- Function: Define the function of the controller connected to the door/gate which is used for the door, parking lot or elevator.
- Authentication Mode: Select the authentication mode for the door/gate.
 - Local Unlock Mode: Remains open. The held-open state cannot be cleared through GV-ASManager.
 - Local Lock Mode: Remains locked. The locked state cannot be cleared through GV-ASManager.
 - **Fixed Card Mode:** Grants access after the card is presented or a passcode is entered, and ignores the authentication schedule of GV-ASManager.
 - **Fixed Card Mode + PIN Mode:** Grants access after the card is presented and the card's PIN code entered too. Ignores the authentication schedule of GV-ASManager.
 - Fixed Card/Common Mode: Grants access after the card is presented or after the door/gate's password is entered. Ignores the authentication schedule of GV-ASManager.
 - Authentication Schedule Mode: Follows the authentication schedule set on GV-ASManager.
 - Local Lock Down: Locks down the door and denies access when the card is presented. Ignores the Lock Time setting and APB setting.

Note: To grant access to a card in **Local Lock** mode, click the **Access Monitor** button on GV-ASManager, right-click on the card to select **New/Edit Card** and select **Disable Lock Card / Disable APB / Allow Access during Lockdown Mode**.



[Series Function (APB & Fire)]

You can set Anti-Passback and fire sensor functions across multiple controllers. The Anti-Passback means that a card used on an entry door/gate cannot access the same entry door/gate again unless it has been used on a corresponding exit door/gate. For details on setup, see *Chapter 6 Anti-Passback* on *GV-ASManager <u>User's Manual</u>*.

For the fire sensor function, when the fire sensor of the associated controller is triggered, the fire sensor on GV-AS1620 will also be activated.

- **Enable/Disable:** Enables or disables Anti-Passback and fire sensor functions.
- Info IP: Enter the IP address of the next corresponding controller.

[Wiegand Card Filter Setting]

- Wiegand A/B Filter: Enable to avoid recording repeated access logs, from the same card via Wiegand port A or B, within the duration set.
 - Wiegand A/B Filter Duration: Set the duration of filter, from 3 ~ 60 seconds.

[Camera Mapping]

You can assign a camera to capture snapshots upon card presented. The captured snapshots will be saved to the built-in flash drive of GV-AS1620 and then transferred to the Access Log on GV-ASManager whenever GV-ASManager resumes connection after it has been disconnected.

- Enable/Disable: Enables or disables the camera mapping function.
- **First Camera:** Type the IP address of the assigned camera to take snapshots.

Type the User Name and Password of the camera to complete the mapping process.

[HTTP Event (Card Log Notification)]

Select **Enable** to send access and event logs of the controller to the configured **event IP** address and **Port** number.

Note: This function is supported only on GV IP cameras except GV-EBD / ABL / ADR / AVD / TDR / TBL / TVD series, GV-VD8700 and FD8700-FR.

3.2.2 Parameter Configuration

In the left menu, click **Parameter Configuration**. This page appears.

IMPORTANT: Once connected to GV-AS1620, GV-ASManager will load its parameters to the controller. That means some of the Parameter Settings you have configured here may be overwritten by GV-ASManager later.

Parameter Configurat	ion				
Events					
			_		
Anti-passback:		NO 🔻			
Lock Reset Time:		5	(1~600)		
Held Open Time:		10	(5~9999)		
Fire Action:		Unlock	•		
Alarm Continuous Time:		5	(1~10)		
Alarm					
Held Open:	NO 🔻				
Forced Open:	NO 🔻				
Fire Alarm:	YES 🔻				
Access Denied:	NO 🔻				
Tamper:	NO 🔻				
Common Password					
Common Password:		••••••			
Confirm Password:		••••••			
Submit Cancel					

Figure 3-7

[Events]

Set the parameters for the events. The options available vary depending on Door Control,

Parking Control and **Elevator Control** selected in the **Function Configuration** page (*Figure 3-6*):

Option	Description
Anti-Passback	Enables or disables the Anti-Passback function.
Lock Reset Time	Sets the time (1 to 600 sec.) that a door remains open after which the door will automatically be locked.
Held Open Time	Sets the time (5 to 9999 sec.) that a door can be held open before an alarm is generated.



Fire Action	Locks or unlocks the door when a fire condition occurs. Otherwise, remains the door's current state by selecting <i>Unchanged</i> .
Alarm Continuous Time	Sets the time (1 to 10 sec.) that the alarm will continuously go off before it ends.
Relay On Time	Sets the time (1 to 600 sec.) that a gate remains open after which the gate will automatically be closed.

[Alarm]

Select **Yes** or **No** to enable or disable the alarm function. The options available vary depending on **Door Control**, **Parking Control** and **Elevator Control** selected in the **Function Configuration** page (*Figure 3-6*):

If you have defined the alarm conditions in the **Input Configuration** (*Figure 3-9*) and **Output Configuration** (*Figure 3-10*) pages, remember to activate the corresponding alarms here; otherwise, even though the alarm conditions are met, the expected alarm will not be triggered. The default settings for all the alarms are set to **NO**.

Option	Description
Held Open	This alarm activates whenever the door is held open over the specified time period.
Forced Open	This alarm activates whenever the door is opened by force.
Fire Alarm	This alarm activates whenever fire is detected.
Access Denied	This alarm activates whenever entry is denied due to invalid card or password presented.
Tamper	This alarm activates whenever the sensor for tampering alarm is triggered. The tampering alarm sensor must be installed separately and the triggering conditions depend on the type of sensor used, such as the controller's cabinet being opened.

[Common Password]

When **Fixed Card/Common Mode** is selected as **Authentication Mode** in the **Function Configuration** (*Figure 3-6*) page, you can gain access by using a card or entering this Common Password (door's password).

3.2.3 Time Configuration

3

In the left menu, click **Time Configuration** to set up system time, local time and daylight saving time period.

Time Cor	figura	tior	1							
System Loo	cal Time									
Local Time Time Zone:	: 2019/09 +8:00	/20 1	2:45:18	}						
Local Time										
Isable										
Setup	Current	local	time							
TimeZone:	Hour		Min							
	0	•	0	•						
Date:	Year		Month	1	Date		1			
	2009	۲	Janua	ary 🔻	1	•	ļ			
Time:	Hour		Min		Sec					
	0	•	0	•	0	•]			
Daylight Sa	ivings Tim	ne(DS	iT)							
○ Disable										
Enable										
Unable -	Data M	onth		The d	av of	The	unak	Hour		
Start Time:	1-6 J	lanua	у 🔻	First	ay 01 ▼	Sund	ay v	0	•	
Stop Time:	11-3	Noven	ıb ▼	First	•	Sund	ay 🔻	0	•	
Submit	Cancel									

Figure 3-8

[System Local Time] Displays the current data, time and time zone of the controller.

[Local Time]

- **Disable:** Disable the manual configuration of time and date.
- Setup: Configure the time and date of the controller manually. You can click Current local time to synchronize the controller's date and time with those of the local PC.

[Daylight Savings Time (DST)]

- **Disable:** Disable the manual configuration of DST.
- Time Zone: Enable the manual configuration of DST by setting Start Time and Stop Time for the DST period.



3.2.4 Input Configuration

In the left menu, click **Input Configuration** to define the input devices connected to the controller. Set the input status to either NO (normally open) or NC (normally close).

Inp	Input Configuration						
In	put Function						
01	Door/Car Sensor:	NO 🔻					
02	Door/Gate Button:	NO 🔻					
03	Fire Sensor	NO 🔻					
04	Tamper Sensor	NO 🔻					
Su							

Figure 3-9

3.2.5 Output Configuration

In the left menu, click **Output Configuration** to define the output devices connected to the controller. Set the output status to either NO (normally open) or NC (normally close).



Figure 3-10

3.2.6 Log Viewer

3

In the left menu, click **Card Log Viewer** to search for the log data. The log entries are only created when the controller is disconnected from GV-ASManager. Only up to 100 log entries of Event Log / Access Log on the Web interface can be retrieved at a time.

Log								
Log Type : Access Log 🗸	Time Limit :	Year	Month		Dat	е	Hour	Min
		2017 🗸	January	~	1	~	23 🗸	59 🗸
	~	2017 🗸	January	~	1	~	23 🗸	59 🗸
Message	0	ard Num	ber				Local Tir	ne
Authentication_Fail_not_exist	231-56974			20	17/09	9/12	11:42:00	1
Authentication_Fail_not_exist	230-37454			2017/09/12 11:42:04				
Authentication_Sucess	230-37454			2017/09/12 11:42:27				
Authentication_Fail_not_usedTime	006-48467				2017/09/12 11:42:29			
Authentication_Fail_not_exist	231-56974			2017/09/12 11:42:32				
Authentication_Sucess	230-37454			2017/09/12 11:42:40				
Authentication_Sucess	591300950290ec99			2017/09/12 11:42:48				
Authentication_Fail_not_usedTime	310202720920bb90			2017/09/12 11:42:51				
Authentication_Sucess	591300950	290ec99		20	17/09	9/12	11:42:54	<u>1</u>
Authentication_Fail_not_usedTime	006-48467			20	17/09	9/12	11:43:00	
Authentication_Sucess	230-37454			20	17/09	9/12	11:43:03	2
Authentication_Sucess	591300960	290ec95		20	17/09	9/12	11:43:07	Q.
Authentication_Fail_not_usedTime	310202720	9206690		20	17/09	9/12	11:43:11	
Authentication_Fail_not_exist	231-56974			20	17/09	9/12	11:43:13	
Authentication_Sucess	591300950290ec99			2017/09/12 11:45:17				
Authentication_Fail_not_usedTime	310202720	920bb90		20	17/09	9/12	11:45:21	
Authentication Sucess	591300960	290ec95		20	17/09	9/12	11:45:24	2

Figure 3-11

3.2.7 System Log Viewer

In the left menu, click **System Log Viewer** to view the current system status and dump data that can be used by service personnel for analyzing problems.



3.3 Extended Device

In the left menu, click **Extended Reader Configuration** to define the readers connected to the controller via RS-485 or network, and then use the Function dropdown list to select the door usage associated with the reader.

Extended Reader Configuration								
GV-Reader/CR1320/GF192x/QR1352/DES1352 Function								
If the Ex-Reader is connected to GV-AS Controller through Ethernet, do not select the checkbox below.								
R\$485 Protocol GV OSDP QR1352/DE\$1352								
OSDP Speed/Baudrate 9600 V								
RS485 Serial Number Function Connection Status								
ID 0 00000000001 Door/Gate A Entry Y								
ID 1 00000000002 Door/Gate A Exit V								
ASManager IP Address: 192 . 168 . 0 . 73 : 30000 (from 1025 to 65535)								
Card identification type is UID.								
Submit Cancel								

Figure 3-12

[Protocol]

- **GV:** For the following GeoVision readers, select this protocol.
 - GV-RK1352 / R1352 / DFR1352: Select the RS-485 checkbox and type the Serial Number of the reader. The ID number located next to the serial number will be assigned to the reader.
 - GV-Reader 1251 / Reader 1352 V2: Select the RS-485 checkbox and leave the serial number field blank. Note that the ID number located next to the serial number needs to match the reader's ID number defined by the DIP switches on the reader.
 - **GV-GF1921 / GF1922 / CR1320 / FR2020:** Type the **MAC address** of the fingerprint reader or the camera and *do not* select the RS-485 checkbox.
 - GV-CR420: Select the RS-485 checkbox only if the GV-CR420 is connected to the controller through RS-485. If the reader is connected via network *do not* check the RS485 box. Type the MAC address of GV-CR420 if you using the latest firmware.

- OSDP: For OSDP compliant readers, e.g. GV-RKD1352, select this protocol and select the paired ID No. of the reader (ID #1 ~ #2).
- QR1352/DES1352: For GV-QR1352 / DES1352 / R1354 reader, select this protocol and select the paired ID No. of the reader.

[ASManager Server IP Address] To allow GV-ASManager to receive data from the GV-AS1620, type the IP address and port of GV-ASManager.

Click **Submit**. The green Connection Status indicates the successful connection between GV-AS1620 and the reader whereas a red status indicates otherwise.

Note:

3

- 1. For the RS-485 interface, connect just one of the following readers to GV-AS1620: GV RS-485 readers, OSDP compliant readers, and GV-QR1352/DES1352 readers.
- 2. When the RS-485 checkbox is not selected, the Extended Reader Configuration page can be used to configure network readers. Moreover, network readers can also be quickly and easily set up on GV-ASManager which automatically retrieves the reader's MAC address: Controller Setup > General tab > Extender Reader.

ntroller Setup	Name:	Door 1	_	Common Password	4~80	diaits(0~9)
or 2	Tranic.	20011				
or 3						
or 4 ut	Extended Reader					
	Entrance	None	~	Exit	None	\sim
	IP :			IP :		Q
	Port :			Port :		
	VSS Port :			VSS Port :		
	MAC Address :		_	MAC Address :		_
	Account :			Account :		
	Password :			Password :		
	Camera Mapping					
	Camera 1 :			Camera 2 :		
	None		▼ 17 ⁸	None		▼ [78]
	None	-		None I I I	-	
	Delayed snapsho	: 0	Sec(0~60)	Delayed snapshot:	0	Sec(0~60)

Chapter 4 The Web Interface for GV-Cloud Access Control Connection

After installing the controller on the network, you can configure the controller's settings on the Web interface. The left menu of the Web interface is divided into three sections: **Basic Setting**, **Advanced Setting** and **Extended Device**.





IMPORTANT: The GV-Cloud Access Control applications are only available for GV-AS1620 firmware V2.00 or later.



4.1 Basic Settings

The Basic Settings section covers general system settings, firmware update, and GV-Cloud Access Control connection settings. For details on Network Configuration, refer to *Chapter 2 Installing on a Network*.

4.1.1 System Setup

In the left menu, click Other Configuration. This page appears.

Other Configuration			
Mac Address / Firmware Versio	n		
Model Name: Mac Address: Firmware Version:	GV-AS1620 Cloud 00:13:E2:25:16:A8 V2.0.0_20230706		
Reboot System			
Reboot System:	Reboot		
Configuration Control			
Cloud Access Configuration: Default Value:	Clear Cloud Access DB Load Default		
Backup Configuration:	Download Backup		
	Choose File No file chosen	Upload	
Restore Configuration:			
Submit Cancel			

Figure 4-2

4 The Web Interface for GV-Cloud Access Control Connection

[Mac Address / Firmware Version]

- Mac Address: Indicates the MAC address of the controller.
- **Firmware Version:** Indicates the current firmware version of the controller.

[Reboot System]

 Reboot System: Performs a warm boot of the controller. This operation will keep the current system configuration.

[Configuration Control]

- Cloud Access Configuration: Clears the database of GV-AS1620. After reconnecting to GV-Cloud Access Control, the system will automatically synchronize the user and card data from GV-Cloud Access Control to GV-AS1620.
- Default Value: Resets all configuration parameters to factory settings. This may take 5 seconds to complete.
- Backup Configuration: To backup controller settings, click Download Backup. A .bin file will be exported. You can then import the file to another controller to avoid setting each controller individually. Note that network settings, such as IP address and hardware ID, will NOT be included in the backup file.
- Restore Configuration: To import controller settings, click Browse, select the .bin file previously exported, and click Upload.



4.1.2 Firmware Update

See 3.1.2 Firmware Update for details.

4.1.3 Security Configuration

In the left menu, click **Security Configuration** to configure the connection to GV-Cloud Access Control. Note that it is required to register an account on GV-Cloud before setting up the connection.

Security Configuration								
For safety reasons, the password must be at least 8 characters long. It must contain three character categories among the following: uppercase letters (A-Z), lowercase letters (a-z), digits (0-9), and special characters. (!^,+[]{=).								
Cloud Access Accou	nt							
Account ID:	913694	•						
Submit Cancel								
Administrator Accou	nt							
Login Name:	Alvin123							
Login Password								
Login Password	•••••							
Confirm Password	•••••							
Submit Cancel								

Figure 4-3

- 1. On the Web interface of GV-AS1620, type the Account ID you created on GV-Cloud.
- 2. Click **Submit** under the **Cloud Access Account** section.
- 3. Once the connection to GV-Cloud Access Control is set up, a green status will appear next to the **Account ID** field.



After the connection is set up, add your GV-AS1620 on the device list of GV-Cloud Access Control for the central access control. See *4.2.1 Adding a Device* in <u>GV-Cloud Access</u> <u>Control User's Manual</u>.

Note:

- 1. The **Login Name** and **Login Password** are the login ID and password of GV-AS1620's Web interface.
- 2. If the password of your GV-AS1620 is changed, make sure to update the password on GV-Cloud Access Control to ensure the connection.
- 3. To switch to different GV-Cloud Access Control accounts, type the account ID in the **Cloud Access Account** section and click **Submit**.

4.2 Advanced Settings

Under Advanced Settings, you can configure door settings, turn on alarms, set the device time, edit the input / output functions, and view system logs.



Figure 4-4



4.2.1 Function Configuration

In the left menu, click Function Configuration. This page appears.

Function Configurati	on
Door/Gate A	
Authentication Mode:	Cloud Access Rule Mode 🗸
Wiegand Card Filter Setting	
Wiegand A Filter:	Enable V
Wiegand A Filter Duration:	3 (1~60 seconds)
Wiegand B Filter:	Enable 🗸
Wiegand B Filter Duration:	3 (1~60 seconds)
Submit Cancel	

Figure 4-5

[Door/Gate A]

- Authentication Mode: Select the desired access rules.
 - ⊙ Local Unlock Mode: Select the mode to open the door / gate on GV-AS1620. The held-open state cannot be cleared through GV-Cloud Access Control.
 - Local Lock Mode: Select the mode to lock the door / gate on GV-AS1620. The locked state cannot be cleared through GV-Cloud Access Control.
 - Cloud Access Rule Mode: Select the mode to follow the access rules set on GV-Cloud Access Control.

[Wiegand Card Filter Setting]

- Wiegand A/B Filter: Enable to avoid recording repeated access logs, from the same card via Wiegand port A or B, within the duration set.
 - \odot Wiegand A/B Filter Duration: Set the duration of filter, from 1 ~ 60 seconds.

4.2.2 Parameter Configuration

In the left menu, click Parameter Configuration. This page appears.

Parameter Configuration							
Events							
Lock Reset Time:	5	(1~600)					
Held Open Time:	10	(5~9999)					
Fire Action:	Lock	~					
Alarm							
Held Open:	YES 🗸						
Forced Open:	YES 🗸						
Fire Alarm:	NO 🗸						
Tamper:	NO 🗸						
Submit Cancel							

Figure 4-6

[Events]

- Lock Reset Time: Sets the time (1 to 600 sec.) that a door remains open after which the door will automatically be locked.
- Held Open Time: Sets the time (5 to 9999 sec.) that a door can be held open before an alarm is generated.
- **Fire Action:** Locks or unlocks the door when a fire condition occurs. Otherwise, remain the door's current state by selecting *Unchanged*.



[Alarm]

- Held Open: This alarm activates whenever the door is held open over the specified time period.
- Forced Open: This alarm activates whenever the door is opened by force.
- Fire Alarm: This alarm activates whenever fire is detected.
- Tamper: This alarm activates whenever the sensor for tampering alarm is triggered. The tampering alarm sensor must be installed separately and the triggering conditions depend on the type of sensor used, such as the controller's cabinet being opened.

Note: If you have defined the alarm conditions in the **Input Configuration** and **Output Configuration** pages, remember to activate the corresponding alarms here; otherwise, even though the alarm conditions are met, the expected alarm will not be triggered. The default setting for all alarms is **NO**.

4.2.3 Card Configuration

In the left menu, click **Card Configuration** to set the RS-485 readers on GV-AS1620 to read UID (unique identification) or GID (GeoVision ID) on GV-AS access cards / fobs.

Card Configuration							
GV-Reader Card Identify							
Identificatior	п Туре:	Unique Identification (UID)	~				
Submit	Cancel						

Figure 4-7

To use **GeoVision Identification (GID)**, make sure there are two numbers on your GV-AS access cards / fobs as shown below. If there is only one number on your access cards or fobs, GID is not supported and you must select **Unique Identification (UID)**.



Figure 4-8



4.2.4 Time Configuration

See 3.2.3 Time Configuration for details.

4.2.5 Input Configuration

See 3.2.4 Input Configuration for details.

4.2.6 Output Configuration

See 3.2.5 Output Configuration for details.

4.2.7 System Log Viewer

In the left menu, click **System Log Viewer** to view the current system status and dump data that can be used by service personnel for analyzing problems.

4.3 Extended Device

4.3.1 Extended Reader Configuration

In the left menu, click **Extended Reader Configuration** to define the readers connected to the controller via RS-485 or network, and then use the Function dropdown list to select the door usage associated with the reader.

Extend	Extended Reader Configuration								
GV-Rea	der/CR1	320/GF192x/QR135	2/DES1352 Function						
If the	If the GV Ex-Reader is connected to GV-AS Controller through Ethernet, do not select the checkbox below.								
RS485 P	rotocol	● GV ● 0	OSDP • QR1352/DES1	352					
OSDP Sp	beed/Ba	udrate 9600 v							
R\$485	ID	Serial Number	Output Function	Connection Status					
×	0	00000000000	Door/Gate A Entry 🗸	e					
	1		Door/Gate A Exit 🗸						
Card ide	ntificatio	on type is GID.							
Submit	Car	ncel							

Figure 4-9

[Protocol]

- GV: For the following GeoVision readers, select this protocol.
 - GV-RK1352 / R1352 / DFR1352: Select the RS-485 checkbox and type the Serial Number of the reader. The ID number located next to the serial number will be assigned to the reader.
 - GV-Reader 1251 / Reader 1352 V2: Select the RS-485 checkbox and leave the serial number field blank. Note that the ID number located next to the serial number needs to match the reader's ID number defined by the DIP switches on the reader.
 - GV-GF1921 / GF1922 / CR1320 / FR2020: Type the MAC address of the fingerprint reader or the camera and *do not* select the RS-485 checkbox.



- GV-CR420: Select the RS-485 checkbox only if the GV-CR420 is connected to the controller through RS-485. If the reader is connected via network *do not* check the RS485 box. Type the MAC address of GV-CR420 if you use the latest firmware.
- OSDP: For OSDP compliant readers, e.g. GV-RKD1352, select this protocol and select the paired ID No. of the reader (ID #1 ~ #2).
- QR1352/DES1352: For GV-QR1352 / DES1352 / R1354 reader, select this protocol and select the paired ID No. of the reader.

Click **Submit**. The green Connection Status indicates the successful connection between GV-AS1620 and the reader whereas a red status indicates otherwise.

Note: When the RS-485 checkbox is not selected, the Extended Reader Configuration page can be used to configure network readers.

4.3.2 Extended Camera Configuration

The live view / snapshots / playback recordings of the IP cameras built around readers or doors can be transmitted to GV-Cloud Access Control upon access events by integrating GV-Cloud Bridge with GV-AS1620. Alternatively, you can directly connect the IP cameras built around readers or doors to GV-AS1620 to transmit the live view and snapshots to GV-Cloud Access Control.

[Connecting GV-Cloud Bridge to GV-AS1620]



1. In the left menu of GV-AS1620's Web interface, click **Extended Camera Configuration**. This page appears.

Extended Camera Configuration								
Camera Function								
Local CAM: Live and Snapshot Cloud Bridge: Live, Snapshot and Recording								
Camera Streams Local CAM Cloud Bridge								
GV-Cloud Host Code	Gewa	a						
GV-Cloud Password								
Ex-Reader Output Function	Camera Function	Channel ID	Connection Status	Device IP:Pe Login Name	ort /Passwore	d		
Door/Gate A Entry 🗸	Enable 🗸	Ch 1 🗸		192 . 1	68.0) . 38	: 80	
				admir	n /	••••••		
Door/Gate A Exit 🗸	Disable 🗸	Ch 2 🗸		192 . 1	68 . 4	4 . 194	: 80	
				admii	n /	••••••		
Submit Cancel								

2. Select Cloud Bridge from the Camera Streams options.



3. Select **Enable** from the **Camera Function** dropdown list to enable the snapshot and live view functions of the cameras on GV-Cloud Bridge.

Ex-Reader Output Function	Camera Function	Channel ID	Connection Status	Device IP:Port Login Name/Pass	word		
Door/Gate A Entry 🗸	Enable 🗸	Ch 1 🗸		192 . 168	. 0	. 38 :	80
				admin	/	•••••	
Door/Gate A Exit 🗸 🗸	Disable 🗸	Ch 2 🗸		192 . 168	. 4	. 194 :	80
•				admin	/	•••••	

- Select the desired IP cameras from the camera channel ID (CH1 ~ CH4) corresponding to a camera channel on GV-Cloud Bridge from the Channel ID dropdown list.
- 5. Type the IP, ID and password of GV-Cloud Bridge.



Click **Submit.** The green Connection Status indicates a successful connection between GV-AS1620 and the IP camera on GV-Cloud Bridge, while the red status indicates an unsuccessful connection.

In addition to the settings described above in *Connecting GV-Cloud Bridge to GV-AS1620,* the following settings must be completed in order to access not only live view / snapshot but also playback on GV-Cloud Access Control. The full configuration can be found in *6.2 Accessing Playback* in *GV-Cloud Access Control User's Manual*.

- 6.2.1 Adding a Playback License
- 6.2.2 Creating a Host on GV-Cloud VMS
- 6.2.3 Configuring GV-Cloud Bridge and GV-AS Bridge
- 6.2.4 Accessing Playback

Note:

- 1. The **GV-Cloud Access Control License** is required for accessing access control activities, event logs, snapshots, and live view on GV-Cloud Access Control.
- 2. The **Playback License** is required for accessing playback recordings on GV-Cloud Access Control.

[Connecting IP Cameras to GV-AS1620]



1. In the left menu of GV-AS1620's Web interface, click **Extended Camera Configuration**. This page appears.

Extended Cam	era Conf	igurati	on					
Camera Function								
Local CAM: Live an Cloud Bridge: Live,	d Snapshot Snapshot a	t and Reco	rding					
Camera Streams	Local CA	М	Cloud Bridg	ge				
GV-Cloud Host Code	Gewa	a						
GV-Cloud Password		•••						
When connecting L	ocal CAM,	set snaps	shot resolutio	n to 720F	or les	s,		
and limit the total b Current total bit rat	e : 0 Mbps.	cameras	to 10 Mbps o	or less.				
Ex-Reader Output Function	Camera Function	Channel ID	Connection Status	Device IP Login Na	P:Port me/Pass	sword		
	Disable 🗸	Ch 1 🗸		192 .	168		. 38	: 80
				ac	lmin	1	••••••	
	Disable 🗸	Ch 2 🗸		192 .	168	4	. 194	: 80
	Disable 🗸	Ch 2 🗸		192 . ac	168 Imin	4	. 194 •••••	: 80

- 2. Select Local CAM from the Camera Streams options.
- 3. Select Enable from the Camera Function dropdown list. Each camera ID corresponds



to a reader on the External Device Configuration page.

- Select the camera channel ID (CH1 ~ CH4) corresponding to the camera channel displayed on GV-Cloud VMS from the **Channel ID** dropdown list. Make sure not to select the same channel ID for different camera IDs on each GV-AS1620.
- 5. Type the IP, ID and password of the IP camera.



Click **Submit**. Once the connection between GV-AS1620 and the IP camera is successfully built, the bit rate of the IP camera will be displayed under the **Connection Status** column.

Ex-Reader Output Function	Camera Function	Channel ID	Connection Status	Device IP:Port Login Name/Passw	ord
Door/Gate A Entry 🗸	Enable 🗸	Ch 1 🗸	3072 Kbps	192 . 168 .	0.38:80
				admin	
Door/Gate A Exit 🗸 🗸	Enable 🗸	Ch 2 🗸	4096 Kbps	192 . 168 .	4 . 194 : 80
				admin	

In addition to the settings described above in *Connecting IP Cameras to GV-AS1620,* the following settings must be completed in order to access live view and snapshot on GV-Cloud Access Control. The full configuration can be found in *6.1 Receiving Snapshots and Live Streaming* in <u>GV-Cloud Access Control User's Manual</u>.

- 6.1.1 Creating a Host on GV-Cloud VMS
- 6.1.2 Configuring a Controller
- 6.1.3 Viewing Live Stream

Note:

- 1. Before connecting the local IP cameras to GV-AS1620, make sure to set the camera resolution to 720P or below, and limit the total bit rate of all cameras to 10 Mbps or less.
- 2. If a green status icon does not appear beside GV-Cloud Host Code, make sure the Host Code and Password are consistent with those created on GV-Cloud VMS.
- 3. The **GV-Cloud Access Control License** is required for accessing access control activities, event logs, live view, and snapshots on GV-Cloud Access Control.



Chapter 5 Troubleshooting

Q1: GV-ASManager cannot connect to the controller over the Internet.

The issue can be caused by a number of factors, including IP address conflict, incorrect connection settings, and network failure. Follow the steps below to assign a fixed IP to the GV-ASManager and the controller, respectively. This procedure can determine whether the issue is caused by faulty devices or incorrect network settings.

- 1. Disconnect the hub or switch, which connects both the GV-ASManager and the controller, from the Internet.
- 2. Give the GV-ASManager a fixed IP address that is NOT used by another device under the LAN, e.g. 192.168.0.154.

You can get IP settings assigned his capability. Otherwise, you nee	automatically if your network supports
he appropriate IP settings.	sa to ask your network administrator for
O Obtain an IP address automa	atically
Use the following IP address	3
IP address:	192.168.0.154
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	i r r
Obtain DNS server address	automatically
Subset the following DNS serve	er addresses:
Preferred DNS server:	
Alternate DNS server:	

Figure 4-1

- 3. Reset the controller to factory defaults. For details, see 3.1.1 System Setup.
- 4. Log in the controller using the default IP: <u>http://192.168.0.100</u>

5 Troubleshooting

5. In the IP address fields, give the controller an IP address that is NOT used by another device under the LAN, e.g. 192.168.X.XXX.

etwork Configu	ration				
Machine Name					
Machine Name: Co	ntroller 2				
DHCP Client					
Enable					
Disable					
IP Address:	192.	168	. 2	. 168	
Disable IP Address: Subnet Mask:	192 . 255 .	168 255	2 248	. 168 . 0	
 Disable IP Address: Subnet Mask: Default Gateway: 	192 · 255 · 192 ·	168 255 168	2 248 0	. 168 . 0 . 1	

Figure 4-2

6. On the GV-ASManager, type the following settings:

Controller ID: 1

Network: TCP/IP

IP: 192.168.X.XXX

Port: 4000

User: admin

Password: admin

Crypto key: 12345678

r.				ASManager Controller Setup				
TT B- ==		0	a Q	M Settings Controller Setup Door 1	Controller Setup Controller Name :	Controller 1	Controller ID :	1
ontroller	Model	ID	LF		GMT :	+ v 08 v : 00 v	Data Group:	No Groups
1			^		Connection	700.00	Enable Daylight Saving	Setup
Controller 1		ОК			IP : Port :	192.168.0.100		
GV-AS1620	~	Cano	:el		User : Password : Conto Key	admin		
	r T T T T T T T T T T T T T T T T T T T	r ministry r ministry r ministry minist	r mtroller Model ID 1 Controller 1 GV-AS1620 Cance	r T T T T T T T T T T T T T T T T T T T	r	r r Controller Model ID LF Controller 1 OK GV-AS1620 Controller Controlle	r T T T T T T T T T T T T T	r T T T T T T T T T T T T T

Figure 4-3

7. The connection between the GV-ASManager and controller should be established under the LAN, with the connection icon appearing. If disconnection occurs soon after reconnecting the hub or switch to the Internet, it is likely due to other network issues. Please contact your network administrator.



Q2: The connection established between the GV-ASManager and the controller is interrupted.

This may be due to IP address conflict. Follow these steps to troubleshoot the problem:

- 1. Disconnect the hub or switch, which connects to both the GV-ASManager and the controller, from the network.
- 2. Run Windows **Command Prompt**. Take Classic Windows Start Menu for example, click **Start**, select **Accessories** and click **Command Prompt**.
- 3. Type **arp –d** and press **Enter**.



Figure 4-4

- 4. Give the GV-ASManager a fixed IP address that is NOT used by another device under the LAN. See *Figure 4-1*.
- 5. Log in the controller The Network Configuration page appears.
- 6. In the IP address field, give the controller an IP address that is NOT used by another device under the LAN.
- 7. On the GV-ASManager, enter the following settings. See Figure 4-3.

Controller ID: 1 Network: TCP/IP IP: 192.168.0.XXX Port: 4000 User: admin Password: admin Crypto key: 12345678

8. The connection between the GV-ASManager and the controller should be established with the connection icon appearing. If disconnection happens soon after you connect the hub or switch back to the network, then it should be other network problems. Please contact your network administrator.

5

Q3: GV-ASManager cannot receive card messages but the reader accepts the card when the connection between the GV-ASManager and GV-AS1620 is well established.

It may be due to memory failure in the controller. Reset the controller module to factory settings. For details, see *3.1.1 System* Setup.

Q4: After I added a card on GV-ASManager and then presented it to the reader, the message "*Access Denied Invalid Card*" still appears.

It may be the card format is not compatible with the controller. Make sure the card format is 64 bits. Otherwise, send us the related information of your card format so that we can customize the setting for you.

Q5: GV-ASManager cannot receive card messages from the reader connected to the controller through RS-485 interface.

- 1. Make sure the reader is correctly wiring to the controller.
- 2. Make sure the reader has been defined on the controller. See 3.3 Extended Device for details.

Q6: How can I find more help?

Visit our website at http://www.geovision.com.tw/products.php?c1=25

Write to us at support@geovision.com.tw