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GViSiON VW-CG Video Wall Controller User Manual

VW-CG USER'S MANUAL
VIDEO WALL CONTROLLER

Contents

VW-CG Video Wall Controller

Important Information

⚠ **WARNING** ⚠
TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO, DO

NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS UNLESS THE PRONGS CAN BE FULLY INSERTED.
REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡ **CAUTION** ⚠

TO REDUCE THE RISK OF ELECTRIC SHOCK, MAKE SURE POWER CORD IS UNPLUGGED FROM WALL SOCKET. TO FULLY DISENGAGE THE POWER TO THE UNIT, PLEASE DISCONNECT THE POWER CORD FROM THE AC OUTLET. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

⚡This symbol warns user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock.
Therefore, it is dangerous to make any kind of contact with any part inside this unit.

⚠This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included.
Therefore, it should be read carefully in order to avoid any problems.
CAUTION: Please use the power cord provided with this display in accordance with the table below. If a power cord is not supplied with this equipment, please contact GVISION. For all other cases, please use the power cord with the plug style that matches the power socket where the monitor is located. The compatible power cord corresponds to the AC voltage of the power outlet and has been approved by, and complies with, the safety standards in the country of purchase.
*When operating this monitor with its AC 125-240V power supply, use a power supply cord that matches the power supply voltage of the AC power outlet being used.

Care and Cleaning

- Always unplug your monitor from the wall outlet before cleaning. Clean the LCD monitor surface with a lint-free, non-abrasive cloth. Avoid using any liquid, aerosol or glass cleaners.

- Slots and openings on the back or top of the cabinet are for ventilation. They must not be blocked or covered. Your monitor should never be placed near or over a radiator or heat source, or in a built-in installation unless proper ventilation is provided.

- Never push objects or spill liquid of any kind into this product.

Safety Precautions / Maintenance

- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.

- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the KIOSK combination to avoid injury from tipover.

- Unplug KIOSK during lightning storms or when unused for long periods of time.

- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the KIOSK has been exposed to rain or moisture, does not operate normally, or has been dropped.

- Do not press strongly upon the panel with a hand or a sharp object such as a nail, pencil, or pen, or make a scratch on it.

- Do not stick metal objects or any other conductive material into the power cord. Do not touch the end of the power cord while it is plugged in.

- Keep the packing anti-moisture material or vinyl packing out of the reach of children. Anti-moisture material is harmful if swallowed. If swallowed, induce vomiting and go to the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.

- Concerning the Power Cord (Can differ by country): Check the specification page of this owner's manual to be certain concerning current requirements. Do not connect too many devices to the same AC power outlet as this could result in fire or electric shock. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your device, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the device, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the device. Do not move the KIOSK with the power cord plugged in. Do not use a damaged or loose power cord. Be sure do grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the KIOSK.

- To reduce the risk of fire or electrical shock, do not expose this product to rain, moisture or other liquids. Do not touch the screen with wet hands. Do not install this product near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.

- Do not use high voltage electrical equipment near the TV (e.g., a bug zapper). This may result in product malfunction.

- Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g., on shelves above the unit).

- Do not attempt to modify this product in any way without written authorization from GVISION. Unauthorized modification could void the user's authority to operate this product.

- Moving: Make sure the product is turned off, unplugged, and all cables have been removed. It may take 2 or more people to carry KIOSK. Do not press or put stress on the front panel of the KIOSK screen.

- If you smell smoke or other odors coming from the KIOSK screen, unplug the power cord and contact an authorized service center.

- If water or another substance enters the product (like an AC adapter, power cord, or KIOSK unit), disconnect the power cord and contact the service center immediately. Otherwise, this may result in fire or electric shock.

Introduction

This product is a high-performance video image processing workstation that can display multiple dynamic screens

on multiple displays to realize the window splicing function. This product, designed specifically for high-quality multi-screen scenarios, features flexible control of different types of screens with varied resolutions. It can be used in industries such as education and research, government announcements, information publishing, administrative management, military command, exhibition display, security monitoring, and home appliance sales. This manual describes how to manage the device on a Web browser. The figures in this manual are only for illustration purpose. The parameters, options and values actually displayed on the Web pages of your device may be different from those in this manual.

Login

Before you start the system, please check following.

- The device is operating properly.
- The computer is connected to the device.
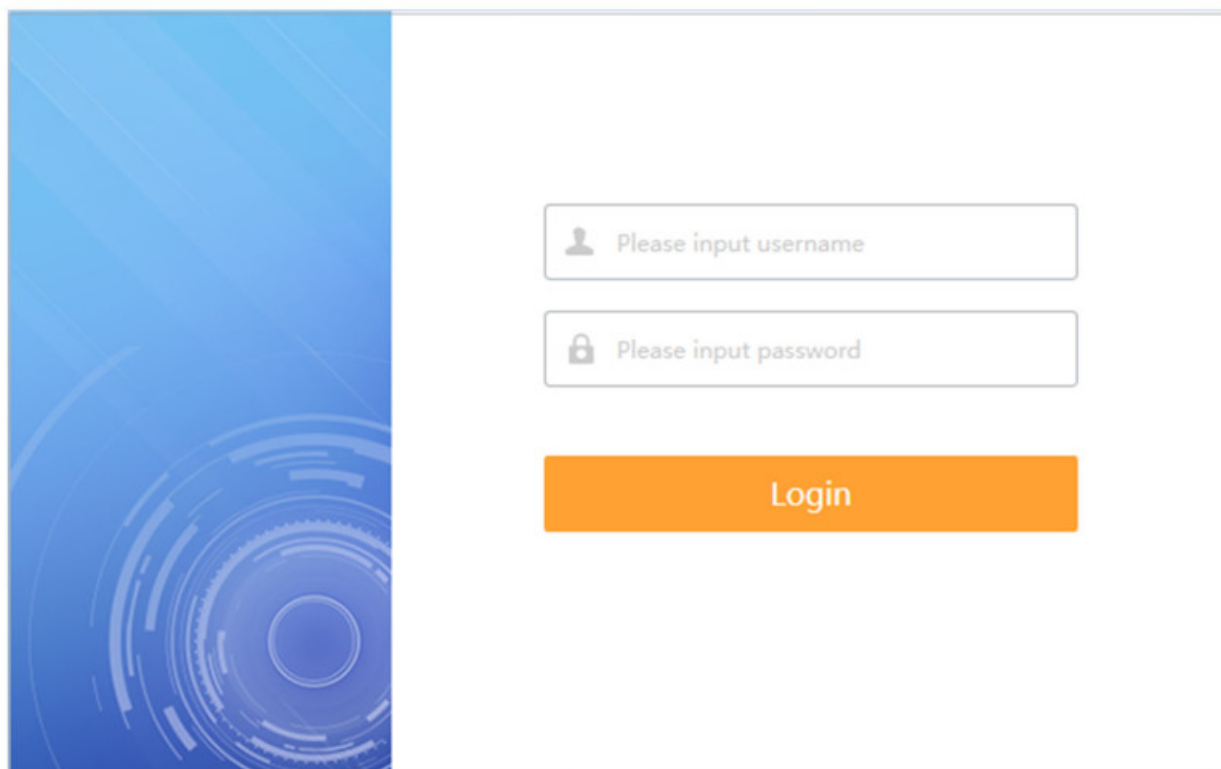
The computer is installed with Microsoft Internet Explorer (IE) 7.0 or higher, and no proxy server is being used.

Note!

- The default IP address of your device is 192.168.1.14; the default subnet mask is 255.255.255.0; the default gateway is 192.168.1.1.
- Use admin as the username and 123456 as the password for first-time login. Please change the default password under admin to ensure account security.

Follow the steps to log in to the device:

1. Enter the device's IP address in the address bar and then press Enter.

2. Log in with the correct username and password.
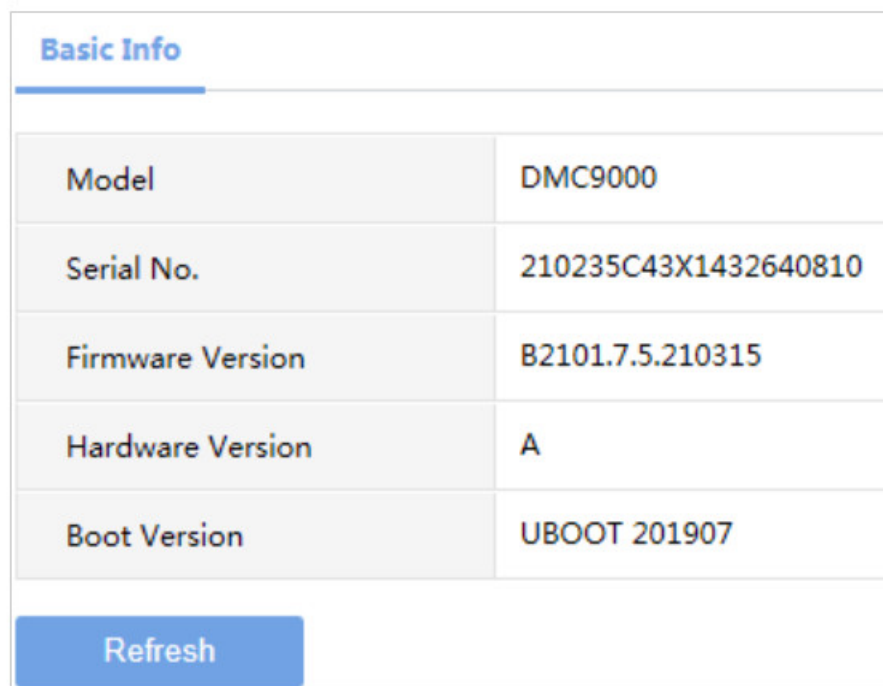
System

Set system settings include Basic information, Time, Serial, Play, Window, Running Mode and Security.

3.1 Basic

The Basic page lists the basic information including device type, serial number, software version, hardware version and boot version.

1. Click **System > Basic.**

2. Click **Refresh.**

3.2 Time

Set system time for your device and how to update time.

1. Click **System > Time**

Time

Time Zone	(GMT+08:00) Beijing, Hong Kong ▾
System Time	2021-3-18 04:55:35 PM ▢ ☐ Sync with PC
Auto Update	○ On ◉ Off

Save

Time

Time Zone	(GMT+08:00) Beijing, Hong Kong ▾
System Time	2021-3-18 04:55:35 PM ▢ ☐ Sync with PC
Auto Update	◉ On ○ Off
NTP Server Address	0.0.0.0
NTP Port	0
Update Interval	0 Min ▾

Save

2. Set the parameters. Some are described in the table below.

Parameter	Description
Time Zone	Choose a time zone for your device.
System Time	Current system time of the device. Click the **Set Time** text box and then set the time manually or select **Sync with PC** and then the device automatically synchronizes time with your computer.
Auto Update	Enable this function if you have a Network Time Protocol (NTP) server on the network. The device synchronizes time with the NTP server at the set interval when enabled. The NTP server's IP address, port number, and update interval are required.
NTP Server Address	Enter the IP address of the NTP server. **Note:** Set only when automatic update is enabled.
NTP Port	Enter the port number of the NTP server. **Note:** Set only when automatic update is enabled.
Update Interval	The device time is updated every few minutes. **Note:** l The valid range of input time is 1~10080 minutes. l Available when auto update is enabled.

Note!
The device synchronizes time with the central server when operating in server mode.

3.3 Serial
Set the serial port on the device, including the number, serial mode, baud rate, date bit, stop bit check bit and flow control method.
3.3.1 Serial Port Parameters

1. Click **System > Serial > Serial Port Parameters.**
2. Configure the serial port. The figure below shows the RS485's parameters.

3. Some parameters are described in the table below.

Parameter	Description
Serial Port Parameters	Select the serial port to set, including RS232 and RS485.
NO.	Select the serial port to set.
Port Usage	Screen Controll.
Duplex Mode	Full duplex or half duplex. Available when RS485 is selected.
Baud Rate	Transmission rate in bps. The baud rate must be consistent with that on the connected external device.
Data Bit	Number of data bits per character.
Stop Bit	Number of stop bits per character.
Check Bit	Two kinds of parity bits: even parity bit or odd parity bit.
Flow Control	Whether and how to control flow of data through the serial port.

4. Click **Save.**

Note!

In server mode, only **Duplex** can be configured on the Web browser, and all the other parameters can be configured only on the central server.

3.3.2 Screen Control Protocol

Select or customize a screen control protocol as required.

Serial Port Parameters	Screen Control Protocol					
Protocol Name	UA					
Protocol Format	Hexadecimal					
Number of Commands to Tu...	1					
Command to Turn On Screen	FF150000000001010100000000000					
Number of Commands to Tu...	1					
Command to Turn Off Screen	FF150000000001010000000000000					
Screen Control Parameters	Baud Rate 9600	Data Bit 8	Stop Bit 1	Check Bit None		

Save

3.4 Play

3.4.1 Play

Set display mode.

3) Click **System > Play.**

4) The **Play** page lists the display mode.

Play	Advanced
Sync Mode	Sync Mode

Save

3) Click **Save.**

3.4.2 Advanced

Set what to display when decoding stops.

5) Click **System > Play > Advanced**

2) Set what to display when decoding stops.

Play	Advanced
When Decoding Stops	Display Last Frame

Save

3.5 Window

Set Window border.

1) Click **System > Window**

2) Set the parameters. Some are described in the table below.

Parameter	Description
Border	Off by default, displays window border after opening.
Border Color	Set border color.
Border Width	Set border width.

3) Click Save.

3.6 Running Mode

Set the running mode and protocol of the device.

2) Click **System > Running Mode.**

3) The **Running Mode** page lists the running mode and protocol

3) Click Save.
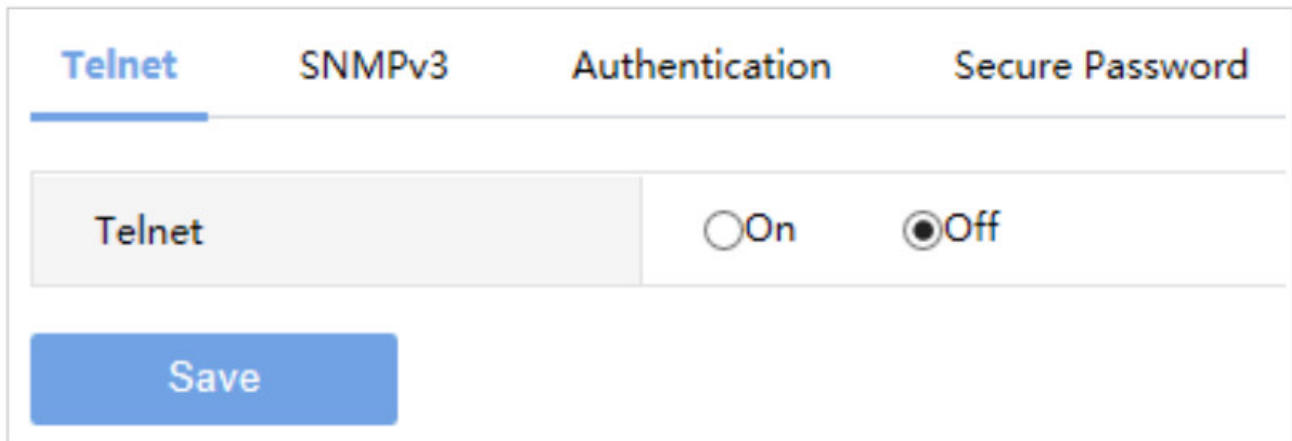
3.7 Security

Set the security of the device.

3.7.1 Telnet

Enable Telnet if you want to access the device from a computer with Telnet. By default the admin username cannot be changed…

1) Click **System > Security > Telnet.**
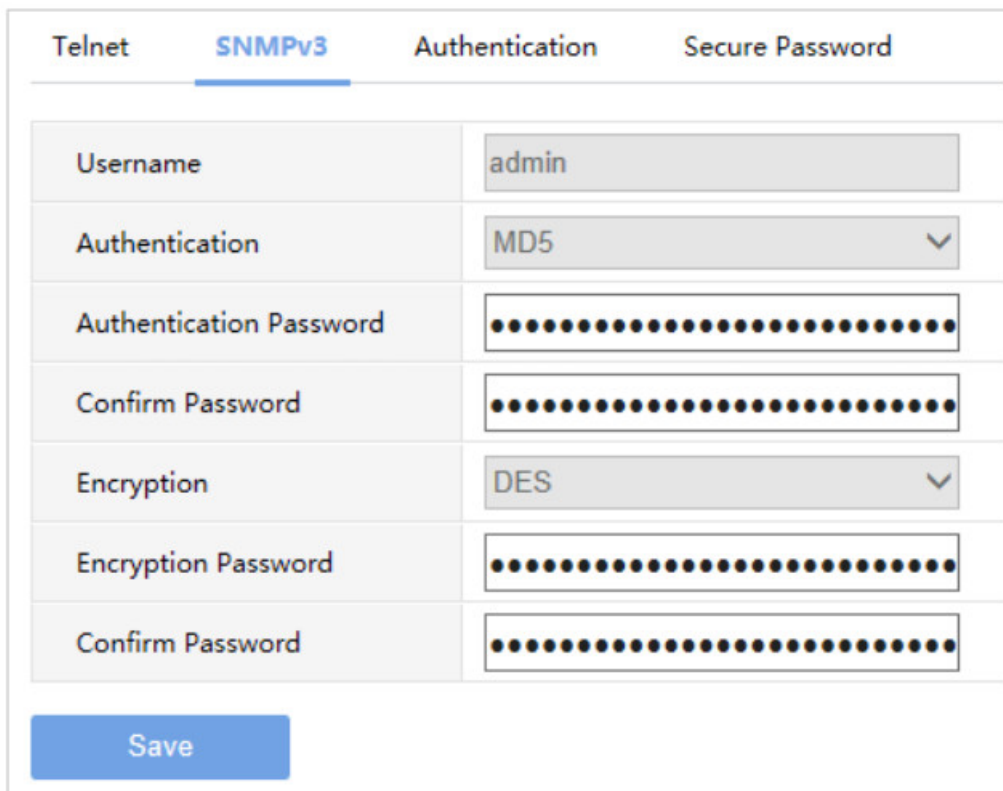

2) Select the check box to enable Telnet, and then click **Save.**

3.7.2 SNMPv3

Through SNMP the central server synchronizes audio/video channel configurations and some of the scheduled tasks to the device, and the device reports device alarms to the central server.

1) Click **System > Security > SNMPv3**

2) This page can't be configured.

3.7.3 Authentication

Select digest or null **in the Authentication page**. Digest access authentication is one of the agreed-upon methods a web server can use to negotiate credentials with server.

1) Click **System > Security > Authentication**

2) Select **Digest** to enable the digest authentication, and then click **Save.**

3.7.4 Secure Password

1) Click **System > Security > Secure Password.**

2) Some parameters are described in the table below.

Parameter	Description
Friendly Password	You must log in with a strong password except in the same network segment or three private network segments (10.X.X.X/8 172.16.X.X/12 192.168.X.X/16).
Enhanced Password	You must log in with a strong password.

3) Select password mode, and then click Save.

Network

Set network settings include TCP/IP and Telnet so that the device can communicate with other devices on the network.

4.1 TCP/IP

Assign a static IP address manually, or obtain one using the DHCP server.

1) Click **Network > TCP/IP.**

2) Set the parameters. Some are described in the table below.

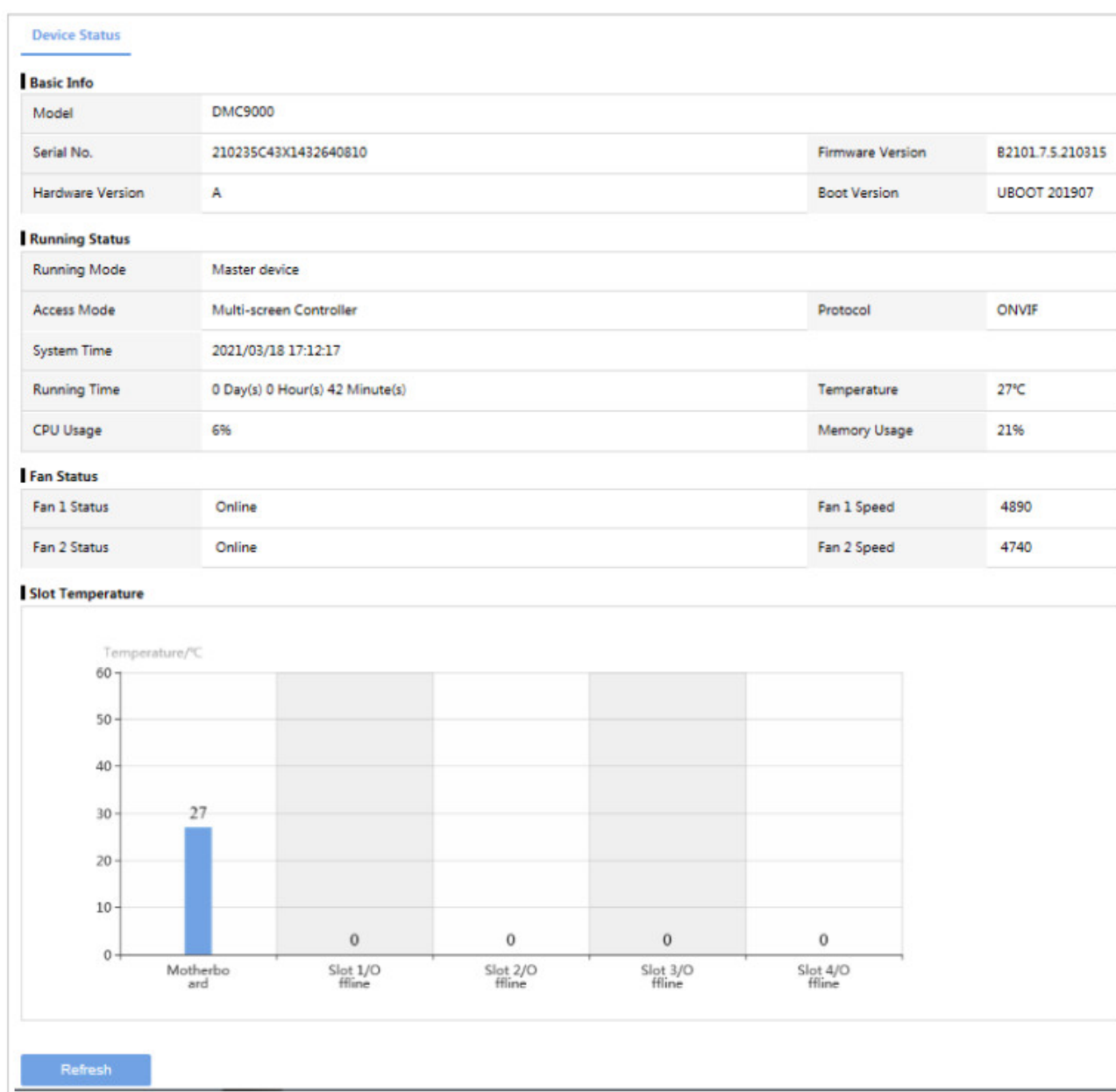| Parameter	Description
Working Mode	Load Balance.
Select NIC	Select the network interface.
IPv4 Address	Set the IP Address.
IPv4 Subnet Mask	Set the subnet mask.
IPv4 Default Gateway	Set the gateway.
MAC Address	Display the mac address.

2) Click to Save.

Maintenance

The major functions provided on the **Maintenance** menu are listed in the table below.

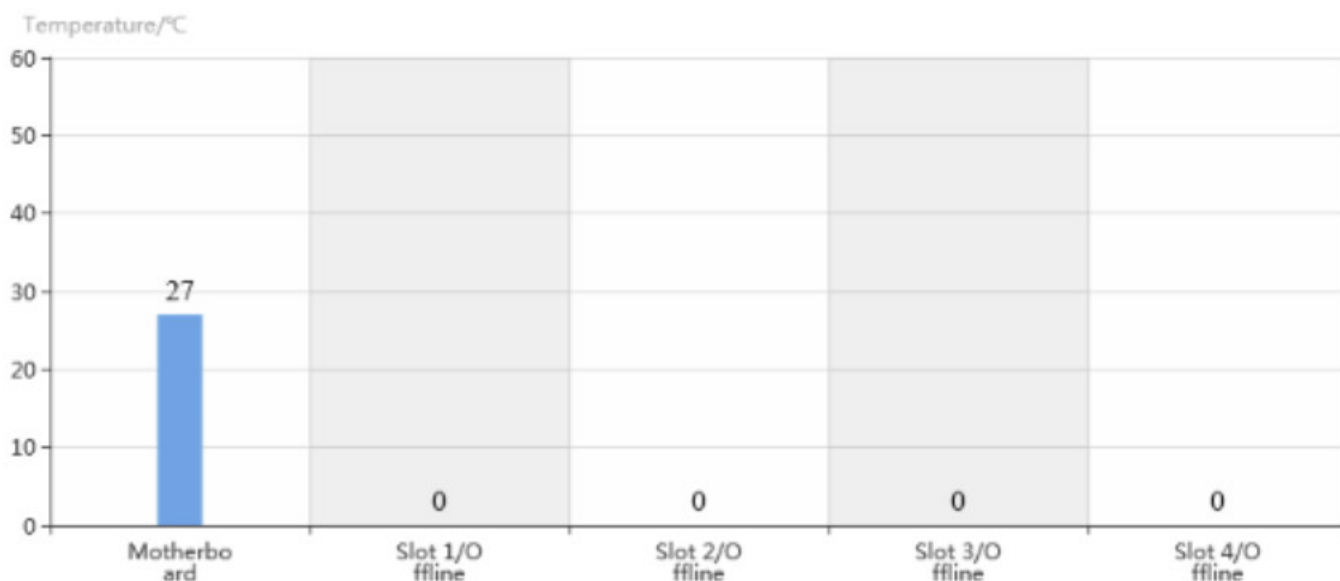| Parameter	Description
Device Status	View device information. For more details, see **Device Status**.
Packet Capture	Capture packets of the device.
Maintenance	l Restart the device. l Restore factory default settings. l Import and export configuration file. l Export diagnostic information. l Upgrade the software. For more details, see **Maintenance**.

5.1 Device Status

1) Click **Maintenance > Device Status** to view information of the device, its basic information, running status, fan status and slot temperature. The following shows an example.

2) Some are described in the table below.

Parameter	Description
Model	The current product model equipment.
Serial No.	The serial number of the equipment.
Firmware Version	Device's current software version.
Hardware Version	Equipment hardware version of the current.
Boot Version	Current versions of bootstrap equipment.
Running Mode	The operation of the equipment for the current configuration mode.
Access Mode	The current access mode of the equipment.
Protocol	The current equipment access protocol.
System Time	Equipment of the current system time.
Running Time	Equipment continuous operation time.
Temperature	The temperature of the current equipment.
CPU Usage	Current CPU utilization device.
Memory Usage	Equipment the current memory usage.
Fan Status	If the current fan online.
Fan Speed	The fan speed.
Buzzer	l On: When the high temperature alarm, the buzzer will beep. l Off: When the high temperature alarm, the buzzer won't buzz.

3) You can view the current boards in the icon types, such as temperature, whether online status information.

5.2 Packet Capture
1) Click **Maintenance > Packet Capture.**

3) Some are described in the table below.

Parameter	Description
IP Address	Set the IP address of the device to capture packets.
Port	Set the port number of the device to capture packets.

5.3 Maintenance

2) Click **Maintenance > Maintenance** and then perform maintenance operations as needed. You can restart the device, restore some factory default settings, import and export configuration files, export diagnostic information, and upgrade the device.

Specifications

CHASSIS	VW-CG Series
Dimensions (Inch/mm)	17.59" × 18.54" × 5.19" / 447mm × 471mm × 132mm
Weight	31.08 lbs (14.1 Kg)
Power Consumption	< 350W
Service Board Slots	10
Mixed Insertion	Support

Control Board Interface	1x network, 1x Console serial, 3x RS232/RS485 serial, 2x USB, 1x RST key, 1x SWAP Hot-swappable key
Operation Voltage	100V~ 240V AC 50Hz/60Hz
Temperature	0°C ~ +50°C (Operation) / -40°C ~ +70°C (Storage)
Humidity	0% ~ 90% (Operation) / 0% ~ 95% (Storage)
BOARD TYPE	
Signal Input	HDMI x4 / HDMI x8 / **Max. mixture of 80 Inputs**
Signal Output	HDMI x4 / HDMI x8 / **Max. mixture of 80 Outputs**
Input Resolution	XGA:1024×768@60HZ / 720P:1280×720@50HZ / 720P:1280×720@60HZ / SXGA:1280×1024@60HZ / WXGA:1440×900 @60HZ / UXGA:1600×1200@60HZ / 1080P:1920×1080@50HZ / 1080P:1920×1080@60HZ / WUXGA:1920×1200@60HZ
SCREEN CONTROL	
Number of Windows	Each output can open 8 windows on average
	The window opening resources of all output can be shared
	Up to 32 windows are allowed for each output
Roam and Overlay	The windows can roam at any position on the video wall
	Supports window overlay
	Supports picture-in-picture mode
One-click Layout	Create a video wall with an M x N lor fixed layout.
Multiple Video Walls	Create & manage 4 video walls w/ different configurations
Scene Management	Up to 64 scenes can be saved
ADVANCED	
Signal Delay	< 100ms
Output Sync	Fully synchronized
Power Failure Protection	The current running services and layout will be retained and restored after restart.
Seamless Switching	Support

Product Photos

Front View

Quarter View

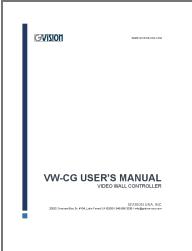Rear View *(The number of In/Outputs are vary)*

Side View

Top View

Documents / Resources

GViSiON VW-CG Video Wall Controller [pdf] User Manual
VW-CG Video Wall Controller, VW-CG, VW-CG Wall Controller, Video Wall Controller, Wall Controller

References

- 🌐 **USA Location information - USA.com**
- ↻ **GVision Touchscreen and Security CCTV Monitors**