

Video Wall Controller User Manual

Manual Version: V1.00

Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

Trademark Acknowledgement

The trademarks, company names and product names contained in this manual are the property of their respective owners.

Disclaimer



CAUTION!

The default password is used for your first login. To ensure account security, please change the password after your first login. You are recommended to set a strong password (no less than eight characters).

- To the maximum extent permitted by applicable law, the product described, with its hardware, software, firmware and documents, is provided on an “as is” basis.
- Best effort has been made to verify the integrity and correctness of the contents in this manual, but no statement, information, or recommendation in this manual shall constitute formal guarantee of any kind, expressed or implied. We shall not be held responsible for any technical or typographical errors in this manual. The contents of this manual are subject to change without prior notice. Update will be added to the new version of this manual.
- Use of this manual and the product and the subsequent result shall be entirely on the user’s own responsibility. In no event shall we be liable to you for any special, consequential, incidental, or indirect damages, including, among others, damages for loss of business profits, business interruption, or loss of data or documentation, or product malfunction or information leakage caused by cyber attack, hacking or virus in connection with the use of this product.
- Video and audio surveillance can be regulated by laws that vary from country to country. Check the law in your local region before using this product for surveillance purposes. We shall not be held responsible for any consequences resulting from illegal operations of the device.
- The illustrations in this manual are for reference only and may vary depending on the version or model. The screenshots in this manual may have been customized to meet specific requirements and user preferences. As a result, some of the examples and functions featured may differ from those displayed on your monitor.
- This manual is a guide for multiple product models and so it is not intended for any specific product.
- Due to uncertainties such as physical environment, discrepancy may exist between the actual values and reference values provided in this manual. The ultimate right to interpretation resides in our company.

Environmental Protection

This product has been designed to comply with the requirements on environmental protection. For the proper

storage, use and disposal of this product, national laws and regulations must be observed.

Symbols

The symbols in the following table may be found in this manual. Carefully follow the instructions indicated by the symbols to avoid hazardous situations and use the product properly.

Symbol	Description
 WARNING!	Indicates a hazardous situation which, if not avoided, could result in bodily injury or death.
 CAUTION!	Indicates a situation which, if not avoided, could result in damage, data loss or malfunction to product.
 NOTE!	Indicates useful or supplemental information about the use of product.

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1 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.

2 Login

Before you start, check that:

- 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.

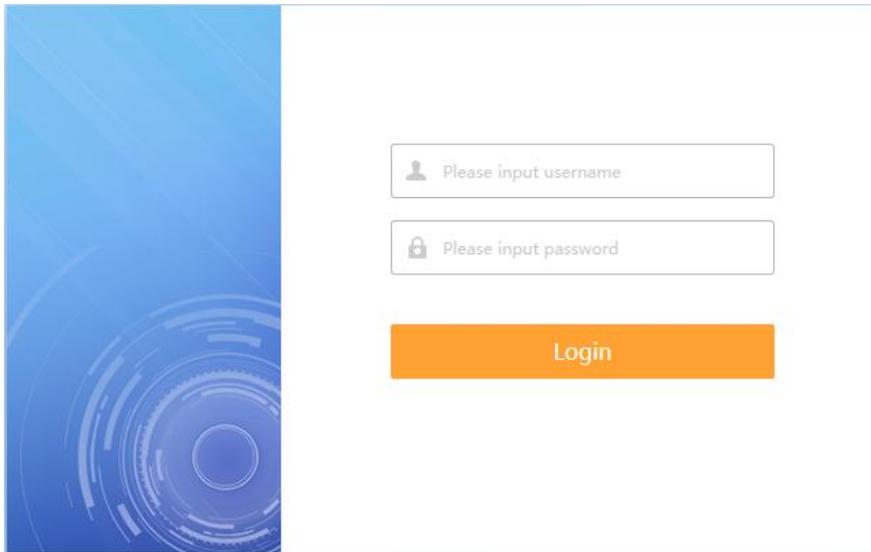


NOTE !

- 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.



3 System

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

Basic

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

1. Click **System > Basic**.

The screenshot shows the 'System' menu on the left with 'Basic Info' highlighted. The 'Basic Info' configuration page on the right displays the following information:

Model	DMC8000
Serial Number	210231C0PC0003380883
Firmware Version	B1101P20
Hardware Version	C
Boot Version	UBOOT 201307

A 'Refresh' button is located below the table.

2. Click **Refresh**.

Time

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

1. Click **System > Time**.

The screenshot shows the 'System > Time' configuration page. The 'Auto Update' option is set to 'Off'.

Time Zone	(GMT+08:00) Beijing, Hong Kong
System Time	2019-4-23 07:35:53 PM <input type="checkbox"/> Sync with PC
Auto Update	<input type="radio"/> On <input checked="" type="radio"/> Off

A 'Save' button is located below the configuration fields.

The screenshot shows the 'System > Time' configuration page with 'Auto Update' set to 'On' and additional NTP parameters.

Time Zone	(GMT+08:00) Beijing, Hong Kong
System Time	2019-4-23 07:35:53 PM <input type="checkbox"/> Sync with PC
Auto Update	<input checked="" type="radio"/> On <input type="radio"/> Off
NTP Server Address	<input type="text"/>
NTP Port	0
Update Interval	0 Min

A 'Save' button is located below the configuration fields.

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: <ul style="list-style-type: none"> the valid range of input time is 1~10080 minutes only set when auto update is enabled



NOTE !

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

Serial

Set the serial port on the device, including the number, serial mode, baud rate, data bit, stop bit, check bit and flow control method.

RS232

1. Click **System > Serial > RS232**.
2. The **RS232** page lists the RS232 interface and can set parameters accordingly. The figure below shows the RS232's parameters.

RS232		RS485
No.	1	
Serial Mode	Screen Control	
Baud Rate	115200	
Data Bit	8	
Stop Bit	1	
Check Bit	None	
Flow Control	None	

Save

3. Click **Save**.

4. Some parameters are described in the table below.

Parameter	Description
NO.	Select the serial port to set.
Serial Mode	Screen Controll.
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.

RS485

1. Click **System > Serial > RS485**.

2. The **RS485** page lists the RS485 interface and can set parameters accordingly. The figure below shows the RS485's parameters.

RS232		RS485
No.	1	
Serial Mode	Screen Control	
Duplex Mode	Full-duplex	
Baud Rate	115200	
Data Bit	8	
Stop Bit	1	
Check Bit	None	
Flow Control	None	

Save

3. Click **Save**.

4. Some parameters are described in the table below.

Parameter	Description
NO.	Select the serial port to set.
Serial Mode	Screen Control.
Duplex	Full duplex or half duplex. Available in RS485 page.
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.



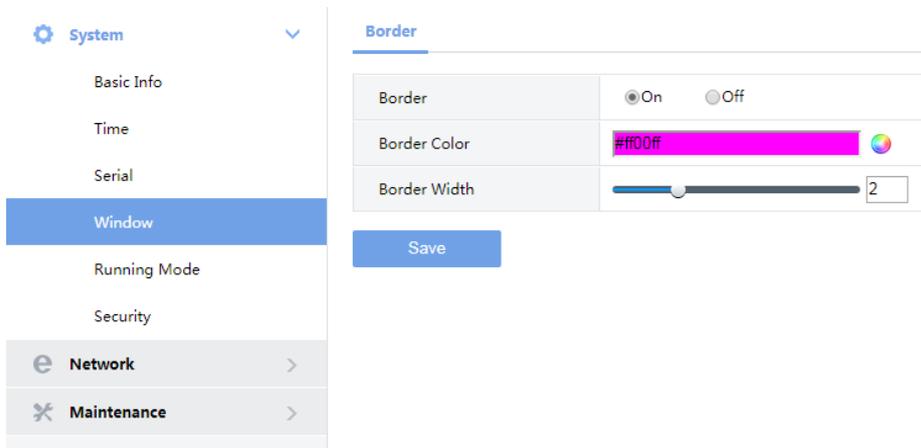
NOTE !

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.

Window

Set window border

1. **System > Window.**



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

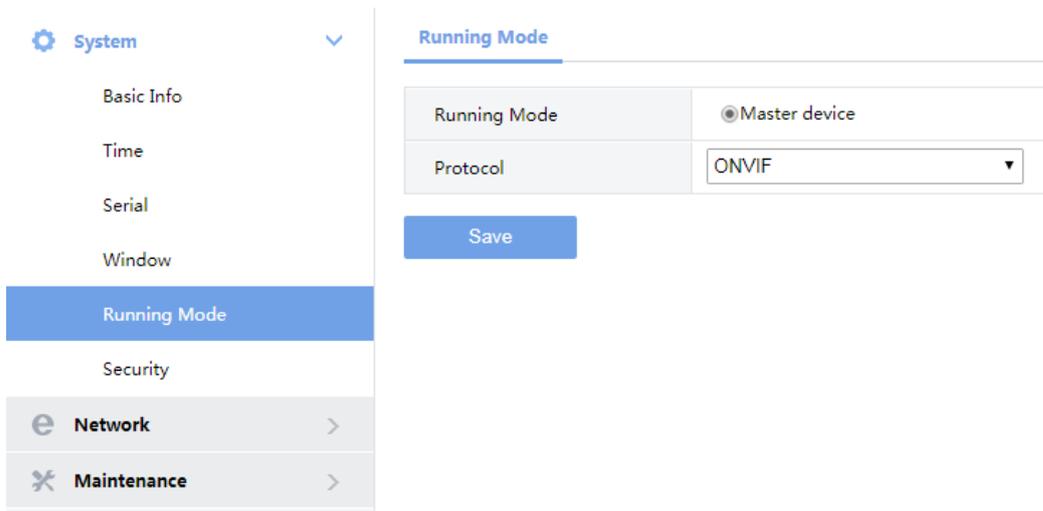
Parameter	Description
Boder	Off by default, Display window border after opening
Border Color	Set border color
Border Width	Set border width

3. Click **Save**.

Running Mode

Set the running mode and protocol of the device.

1. Click **System > Running Mode**.
2. The **Running Mode** page lists the running mode and protocol.



3. Click **Save**.

Security

Set the security of the device.

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**.

The screenshot shows the configuration page for Telnet. On the left is a navigation menu with 'System' expanded to show 'Security' selected. The main content area has tabs for 'Telnet', 'SNMPv3', 'Authentication', and 'Secure Password'. The 'Telnet' tab is active, showing a 'Telnet' checkbox that is currently unchecked, with radio buttons for 'On' and 'Off' (selected). A blue 'Save' button is located below the form.

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

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**.

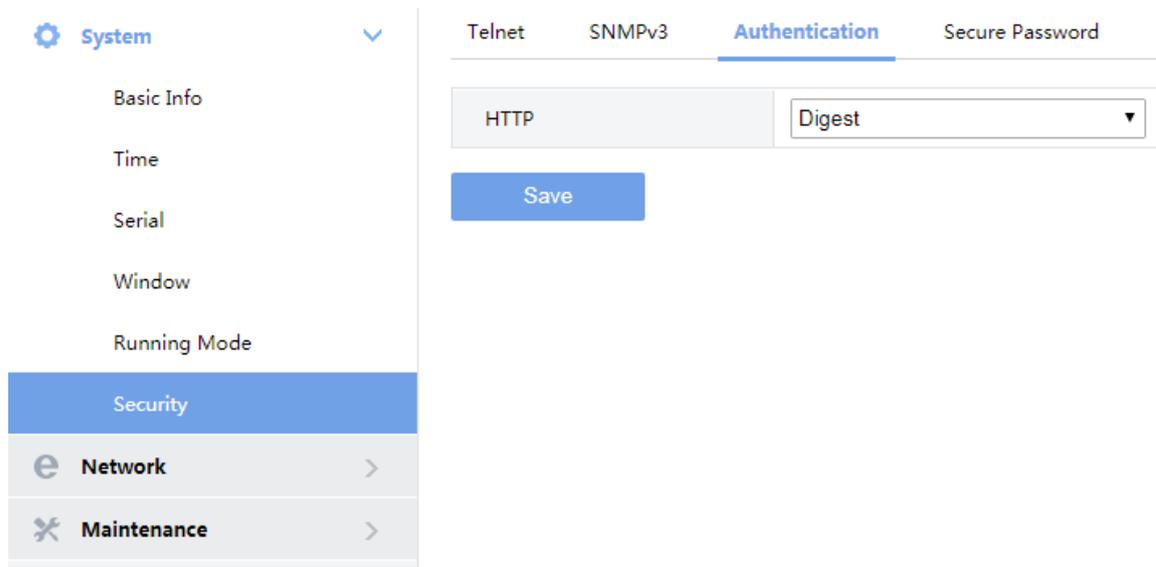
The screenshot shows the configuration page for SNMPv3. The navigation menu is the same as in the previous screenshot. The 'SNMPv3' tab is active. The form contains several fields: 'Username' (admin), 'Authentication' (MD5), 'Authentication Password' (masked), 'Confirm Password' (masked), 'Encryption' (DES), 'Encryption Password' (masked), and 'Confirm Password' (masked). A note at the bottom states: 'Note: This page can't be configured when running mode is ONVIF'. A blue 'Save' button is at the bottom.

2. This page can't be configured.

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.

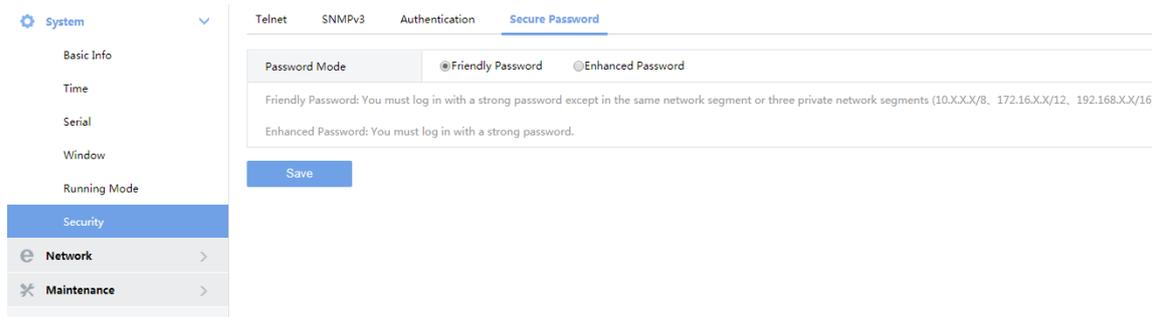
1. Click **System > Security > Authentication**.



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

Secure password

1. Click **System > Security>Secure Password**.
2. Select password mode ,and then click **Save**



3. 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.

4 Network

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

TCP/IP

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

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

TCP/IP	
Working Mode	Load Balance
Select NIC	NIC1
IPv4 Address	209.2.12.55
IPv4 Subnet Mask	255.255.252.0
IPv4 Default Gateway	209.2.14.1
MAC Address	D2-25-3A-88-8E-F9

Save

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

Parameter	Description
Working Mode	Load Balance.
Select NIC1	Select the network interface.
IPv4 Address	Set the IP Address.
IPv4 Subnet Address	Set the subnet address.
IPv4 Default Gateway	Set the gateway.
MAC Address	Display the mac address.

3. Click **Save**.

5 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 .
Maintenance	<ul style="list-style-type: none"> Restart the device. Restore factory default settings. Import and export configuration file. Export diagnostic information. Upgrade the software. For more details, see Maintenance .

Device Status

- 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.

System > [Device Status](#)

Network >

Maintenance >

Device Status

Maintenance

Basic Info

Model	DMC8000	Firmware ...	B1101P20
Serial Nu...	210231C0PC0003380883	Boot Versi...	UBOOT 201307
Hardware ...	C		

Running Status

Running ...	Master device	Protocol	ONVIF
Access Mo...	Multi-screen Controller		
System Ti...	2019/04/23 21:40:08		
Running Ti...	0 Day(s) 4 Hour(s) 45 Minute(s)	Temperatu...	33°C
CPU Usage	3%	Memory U...	37%

Fan Status

Fan 1 Status	Online	Fan 1 Speed	4920
Fan 2 Status	Online	Fan 2 Speed	4920
Fan 3 Status	Online	Fan 3 Speed	4950
Fan 4 Status	Online	Fan 4 Speed	5010

Slot Temperature

Buzzer On Off [Save](#)

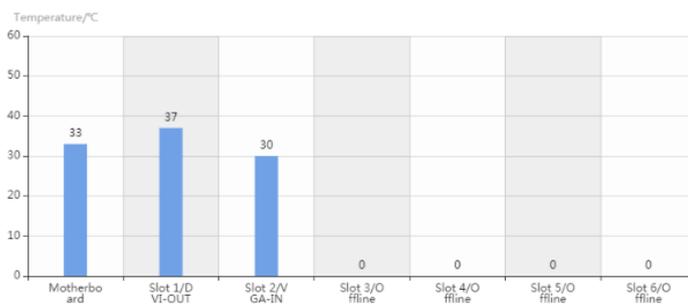
Location	Temperature (°C)
Motherboard	33
Slot 1/D VI-OUT	37
Slot 2/A GA-IN	30
Slot 3/O line	0
Slot 4/O line	0
Slot 5/O line	0
Slot 6/O line	0

[Refresh](#)

- Some are described in the table below.

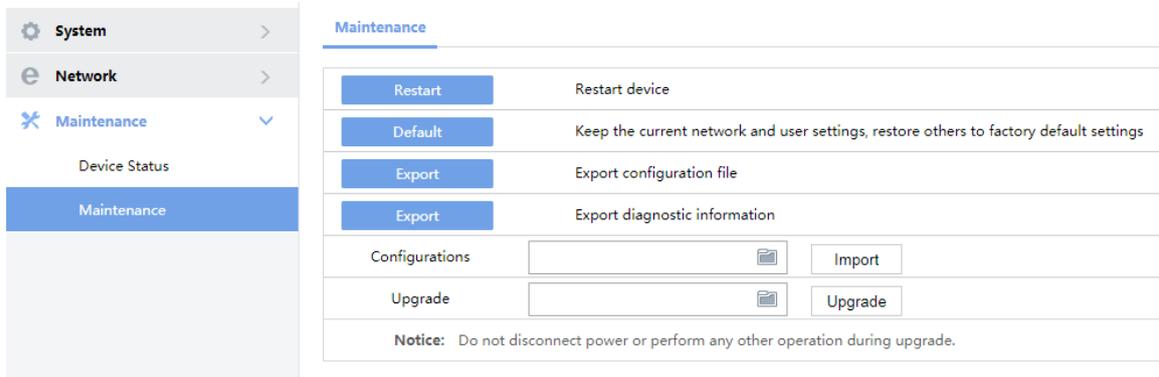
Parameter	Description
Model	The current product model equipment
Serial Number	The serial number of the equipment
Firmware Version	Device's current software version
Hardware Version	Equipment hardware version of the current
Boot Version	Current versions of bootstrap equipment
Running Mode	The operation 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	<ul style="list-style-type: none"> On: When the high temperature alarm,the buzzer will beep 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



Maintenance

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.



Maintenance	
Restart	Restart device
Default	Keep the current network and user settings, restore others to factory default settings
Export	Export configuration file
Export	Export diagnostic information
Configurations	<input type="text"/> <input type="button" value="Import"/>
Upgrade	<input type="text"/> <input type="button" value="Upgrade"/>
Notice: Do not disconnect power or perform any other operation during upgrade.	