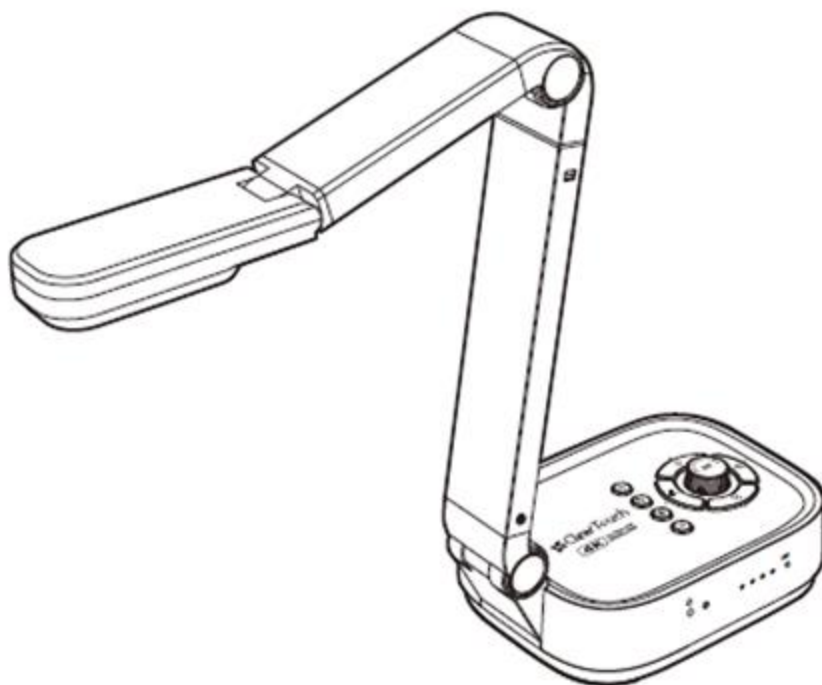# 4K Wireless Document Camera
User Manual

Please read this guide before using the product.

Step 1) Instructions

Thank you for purchasing a Clear Touch Solutions produc t. The DC200 is a 4K wireless document camera for use in digital teaching and distance learning. This quick start guide briefly describes the steps to start using this document camera. If you have any technical or service questions about the product, please call our Technical Support line (864) 643-5045 or submit a Support Ticket from the Support tab at www.get cleartouch.com.

Limited Warranty

This product provides limited warranty continues for one (1) year from the date of purchase.

Warranty Exclusions

The following circumstances excluded from warranty coverage:
• Product damage caused by catastrophes, faulty electric power, and severe environmental factors.
• Defacing of product labeling (label alterations and falsifying, removing or covering the serial number so it is no longer discernible). All serial numbers are recorded and tracked for warranty purposes.
• Unauthorized modifications or removal of the components.
• Damage caused by an operator failing to comply with user manual instruction, such as, but not limited to improper storage resulting in product get wet, corrosion, collision.
• The included accessories, packaging material and user manual are not included in the warranty.

Safety & Environmental Information

• This device complies with part 15 of the FCC rules and CE certification.
• Please take responsibility for protecting the environment by following the regulated, regional procedures for disposal of e-waste.

System Requirements

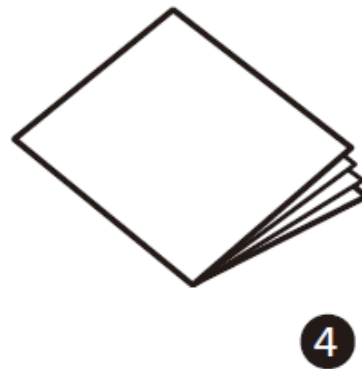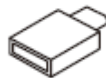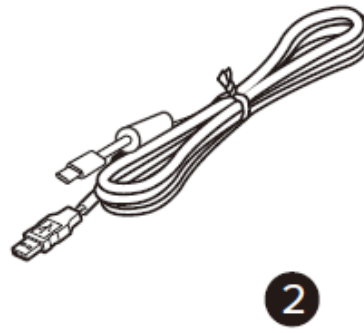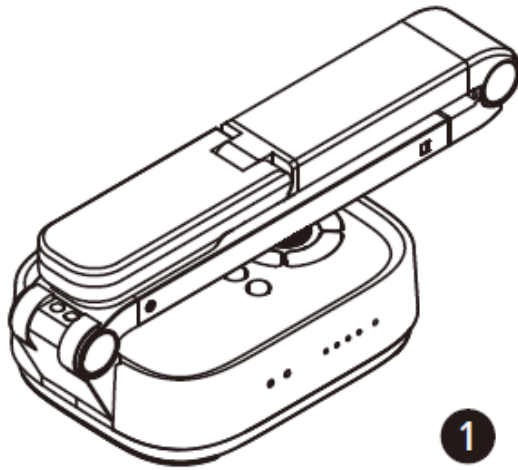| |
|---|
| Intel i3 Processor or Higher |
| USB Port |
| At least 4GB RMB (Recommended 8GB) |
| 20GB Available HDD Space |
| Windows & Chrome Extension |

Step 2) Specifications

Max. Outout Resolution	4608 x 3456 Pixels (16MP)
F/NO (Inflnite)	2.2
TV lines	1100
Max. Shooting Area	430mm x 320mm (17"x12.6")
Max. HDMI Output Resolution / FPS	3840×2160@30fps (4K, 16:9)
USB Output Resolution / FPS	4608x3456@15fps (16MP, 4:3)
	4160x3120@20fps(13MP, 4:3)
	3840x2160@30fps (4K, 16:9)
	2048x1536@30fps (QXGA, 4:3)
	1920x1080@30fps&60fps (FHD, 16:9)
	1280x960@30fps (SXGA-, 4:3)
	1280x720@30fps (HD, 16:9)
	1024x768@30fps (XGA, 4:3)
	640x480@30fps (VGA, 4:3)
	640x360@30fps (nHD, 16:9)
Video Format	H.264 / MJPG / YUY2
Focus	Auto / Manual
Lamp	LED
Image Rotation	0° / 90° / 180° / 270° / Flip / Mirror
PTZ	Yes
Freeze	Yes
Power Frequency	50 / 60 Hz
Wireless Compatibility	802.11a/b/g/n/ac
Wireless Working Frequency	5 GHz / 2.4 GHz
Dual mode	AP / Station DHCP (Server / Client)
Microphone	Built-in Omnidirectional Microphone
Connectivity	USB (Type-C) / HDMI / WiFi
Microphone	Built-in Omnidirectional Microphone
	1kHz(0dB=1V/Pa) Min-45 Nom-42 Max-39 dB
Powered By	USB Type-C (5V / 1A)
Built-in Battery	Battery Work 6 Hours
Protocol	UVC / UAC Compliant
Soupport OS	Windows, macOS, Android
Dimensions	Extended: 347x115x381 mm
	Closed: 242x115x87 mm
Net Weight	1.36Kg

NOTE: Specifications are subject to change without notice
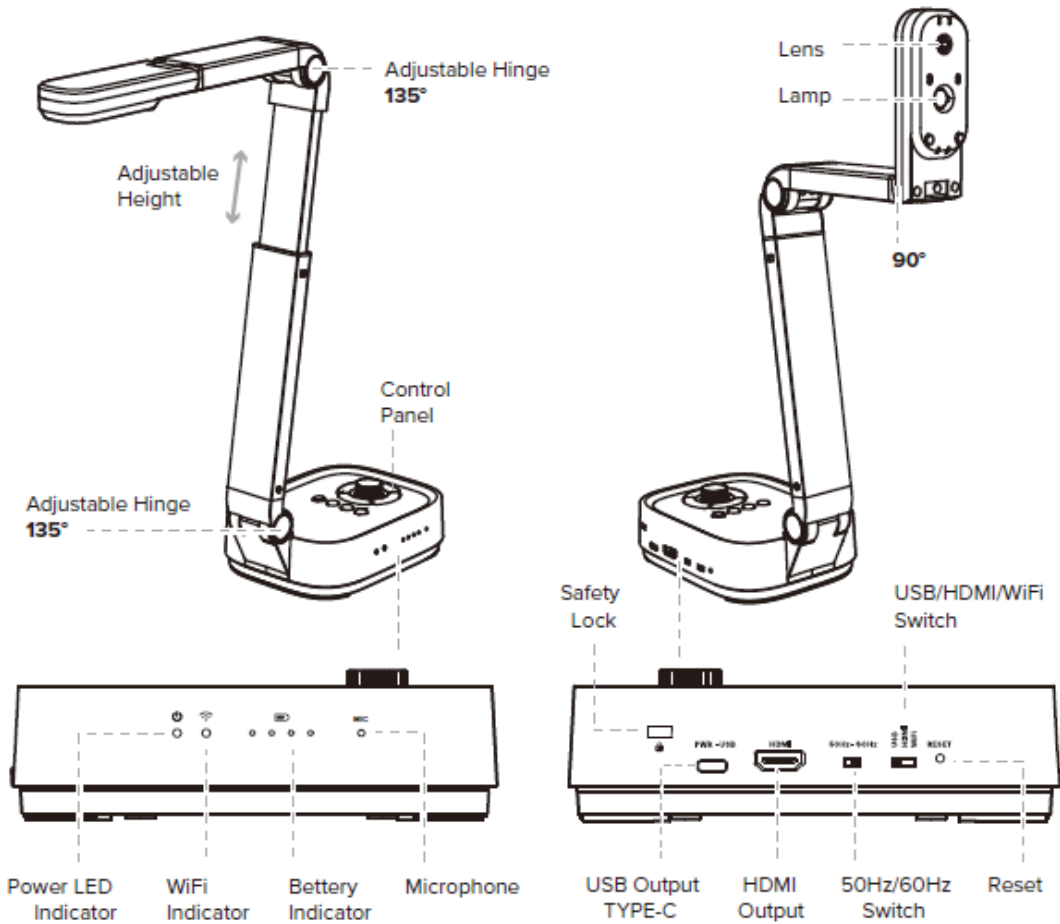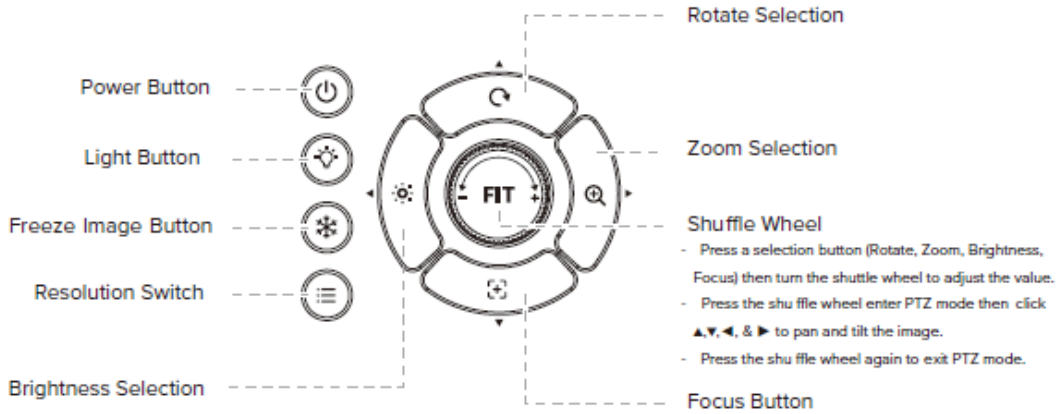
Step 3) Unpacking

Before use, make sure the following items are included in the package.
If anything is missing, contact Clear Touch Support (864) 643-5045 .

1. DC200 Wireless Document Camera

2. USB Type-C Cable

3. USB C to A Adapter

4. Quick Start Guide

1

2

3

4

Step 4) Parts Description

Control Panel

Power Button

Light Button

Freeze Image Button

Resolution Switch

Brightness Selection

Rotate Selection

Zoom Selection

Shuffle Wheel
- Press a selection button (Rotate, Zoom, Brightness, Focus) then turn the shuttle wheel to adjust the value.
- Press the shuffle wheel enter PTZ mode then click ▲,▼,◄, & ► to pan and tilt the image.
- Press the shuffle wheel again to exit PTZ mode.

Focus Button

Adjustable Hinge 135°

Adjustable Height

Control Panel

Adjustable Hinge 135°

Lens

Lamp

90°

Power LED Indicator

WiFi Indicator

Bettery Indicator

Microphone

Safety Lock

USB/HDMI/WiFi Switch

PWR~/5V   HDMI   50Hz~60Hz   UHD HDMI WiFi   RESET

USB Output TYPE-C
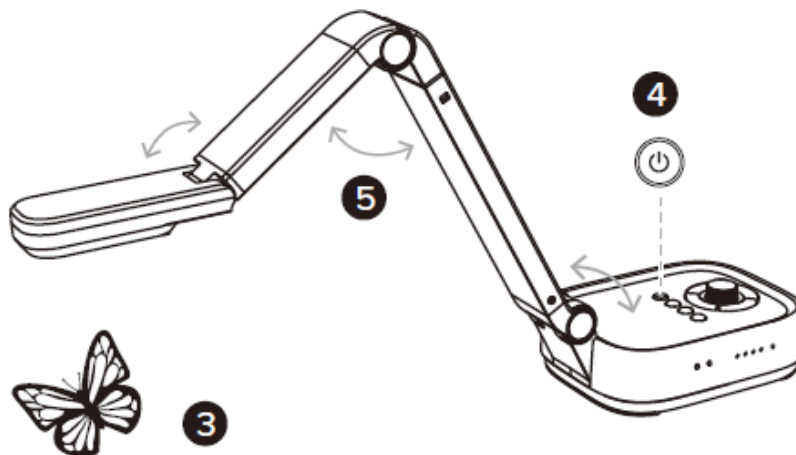
HDMI Output

50Hz/60Hz Switch

Reset

Step 5) Start Using

1.Adjust the camera head to the desired location.

2.Anchor the base plate while adjusting the camera lens .
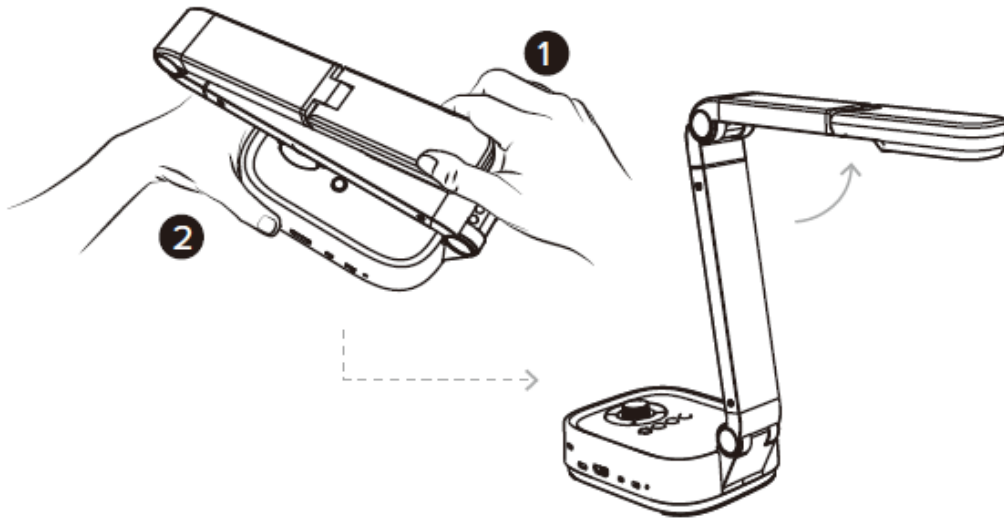
3. Place an object to be displayed under the camera.
4. Press the power button to turn on the power.
5. Adjust the arm to change the height and position for capturing your object.

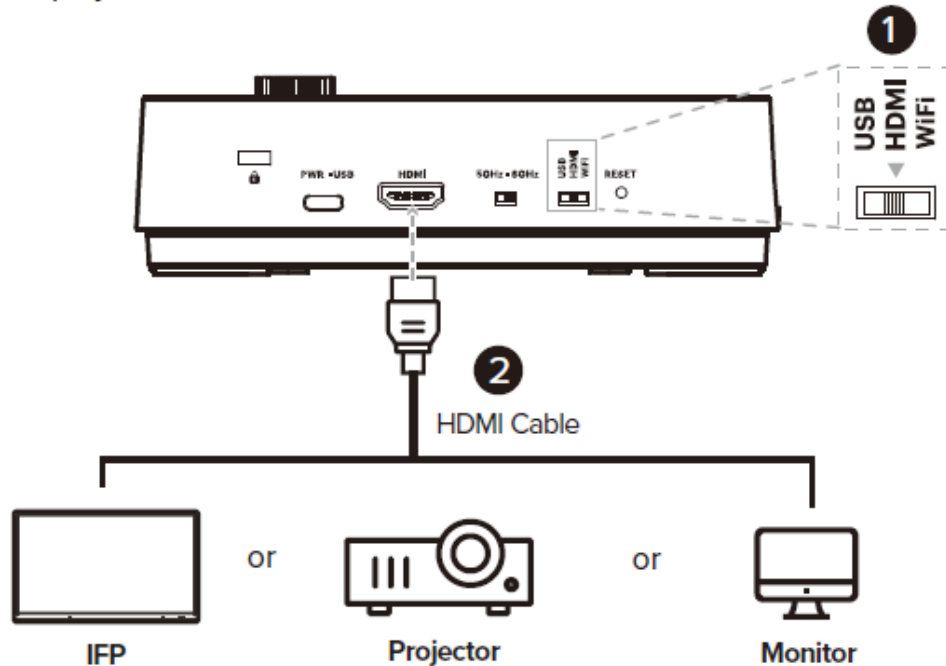# Step 6) USB & HDMI Connections

USB Mode Connection

1. Switch to the USB connection mode.
2. Plug the supplied USB type-C cable to the DC200 and connect another end into the computer's USB port.
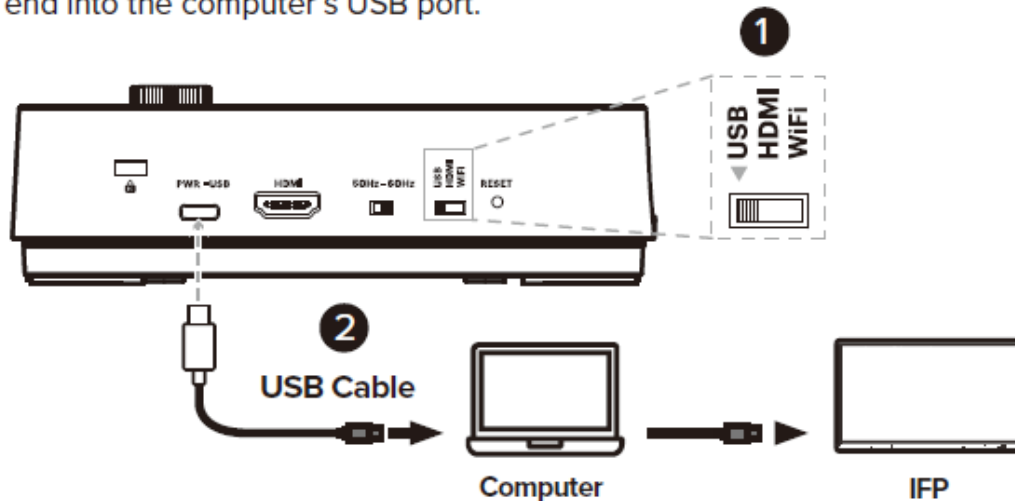
HDMI Mode Connection

1. Switch to the HDMI connection mode.
2. Plug the HDMI cable to the DC200 and connect the other end into a display.

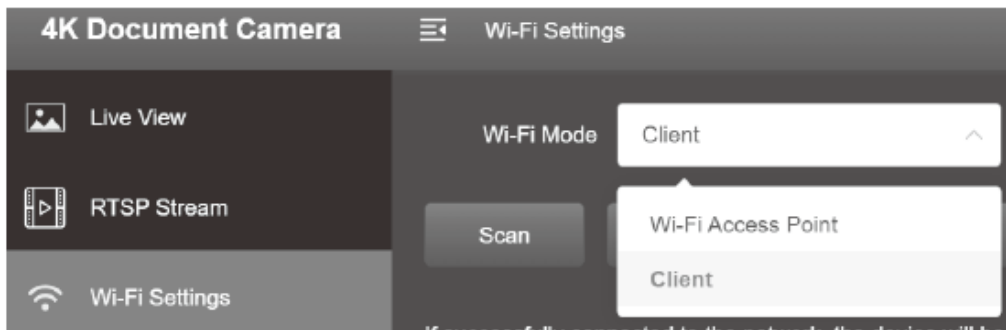# Step 7) Wi-Fi Connection

Network Connection

1. Switch to the Wi-Fi mode and the Wi-Fi LED indicator   flash a green light when it is in WiFi Hotspot mode .
2. Open the wireless network list on the connecting device.
3. Select the [DC200_5G_xxxxxx] in the network list, and input the password for connection (default: 88889999) to start the connection.
4. When the connection is success ful, the Wi-Fi LED indicator will   show a solid green light.

To achieve local network (client) provisioning.

1. After a successful hotspot connec tion, open the web browser, and enter the default IP [192.168.100.1] in the addres   s bar.
2. Enter the login account [admin] and default password [9999], and clic k Login.
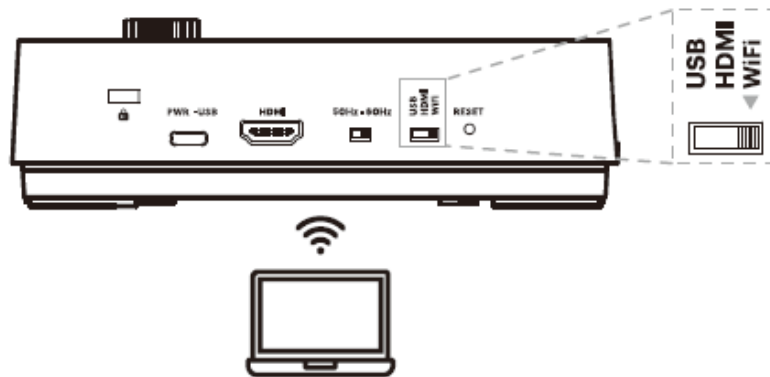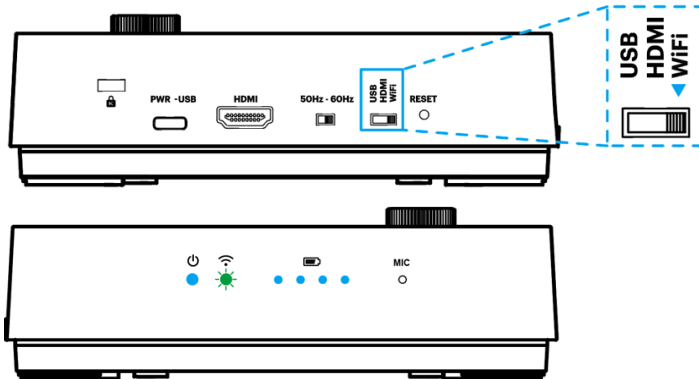

3. After logging to the web page, switch the device to local network "Client" WiFi Mode in Wi-Fi Settings. Follow the prompts to connect the camera to the local network.
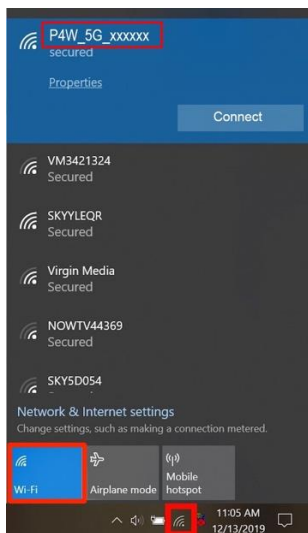

V1.0

DC200 4K Wireless Document Camera

Wi-Fi Connection Instruction

WiFi AP Mode Connection

1. Switch to the Wi-Fi mode and the Wi-Fi LED indicator will be emitted green with flashing.
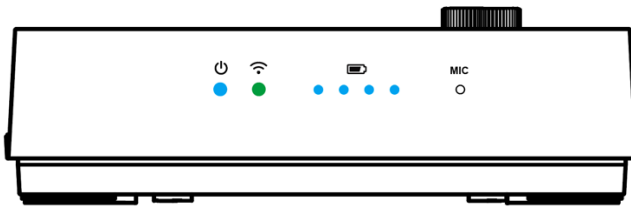

2. Open the wireless network list on the computer then select the [DC200_5G_xxxxxx] in the network list and input the password for connection (default: 88889999) to start the connection.
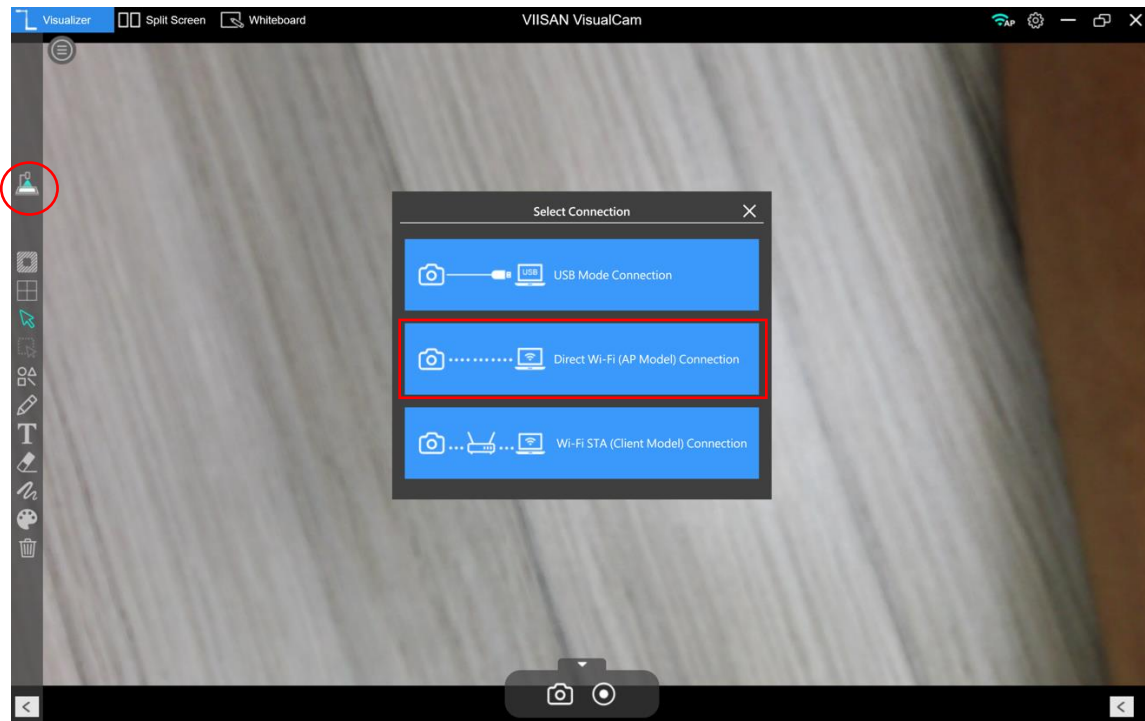

3. When the connection is successful, the Wi-Fi LED indicator will emit green

light.

4. Launch DC Capture software and select the connection mode to "**Direct Wi-Fi (AP Mode) Connection**".
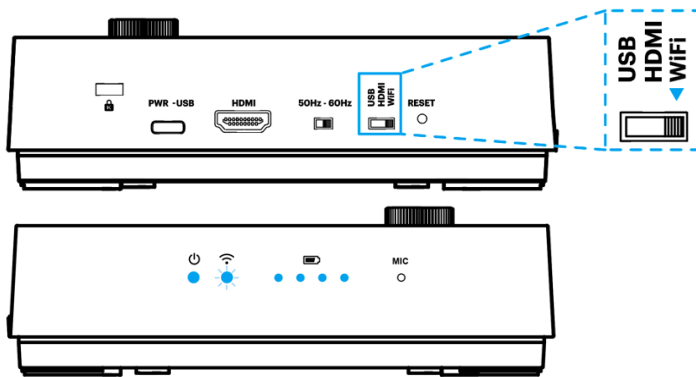

PS. When the direct Wi-Fi AP mode is connected, the Internet will be disconnected.

WiFi Client (STA) Mode Connection

1. Switch to the Wi-Fi mode and the Wi-Fi LED indicator will be emitted blue
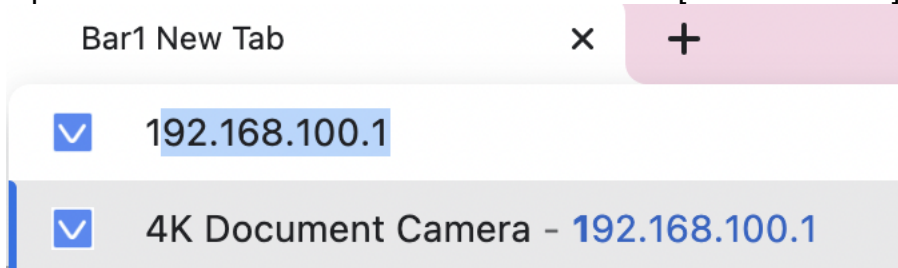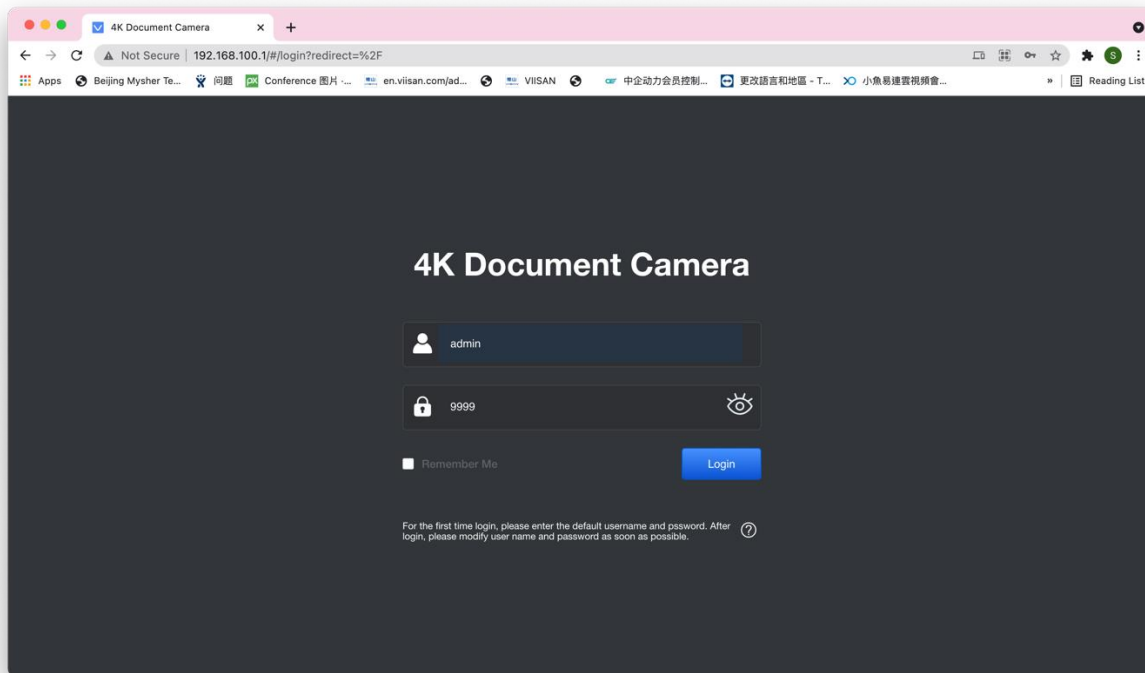
light with flashing.

2. Open the wireless network list on the computer then select the [DC200_5G_xxxxxx] in the network list and input the password for connection (default: 88889999) to start the connection.
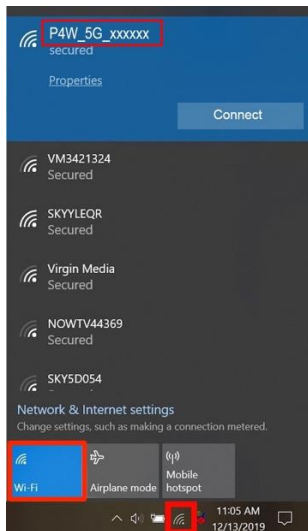
3. Open the web browser and enter the default IP [192.168.100.1] in the address bar.

4. Enter the login account [admin] and default password [9999] and click Login.
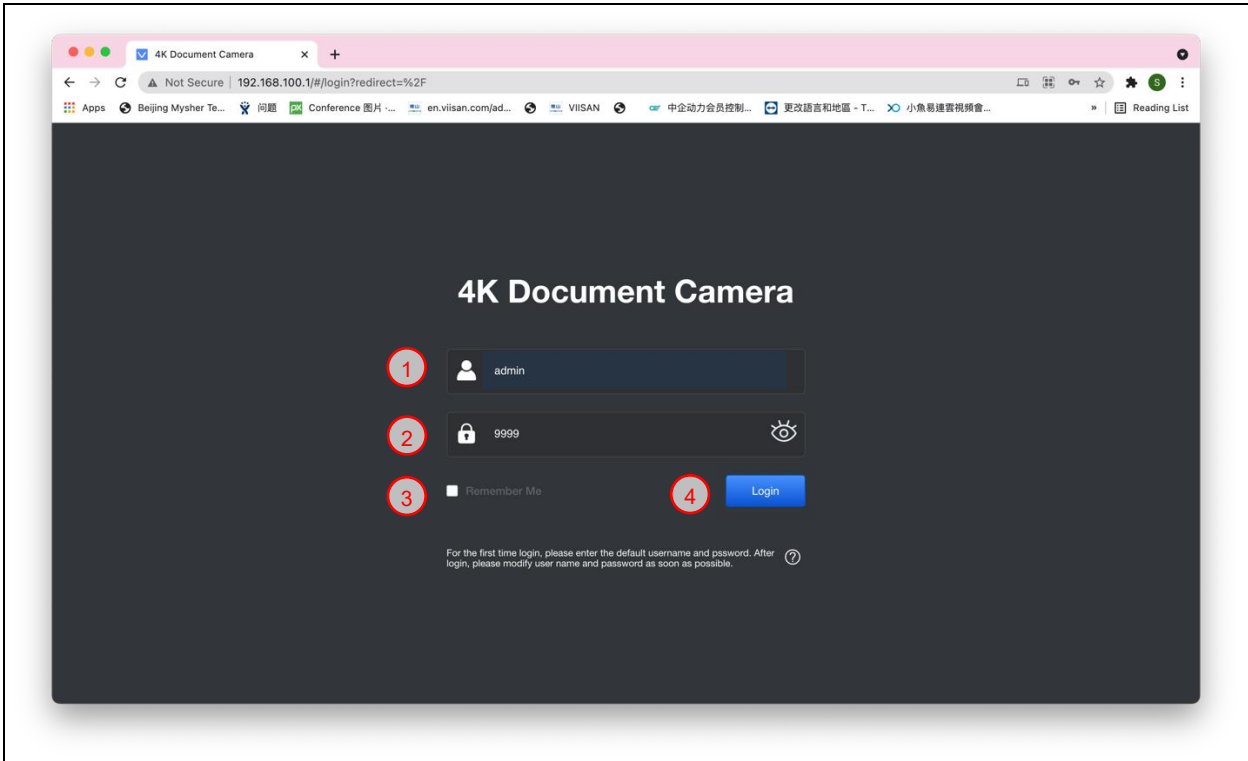
5. After logging to the web page, you can do the live preview and configure the settings on the web page. When the STA mode is configured. Launch DC Capture software and select the connection mode to "WiFi STA (Client Mode) Connection".
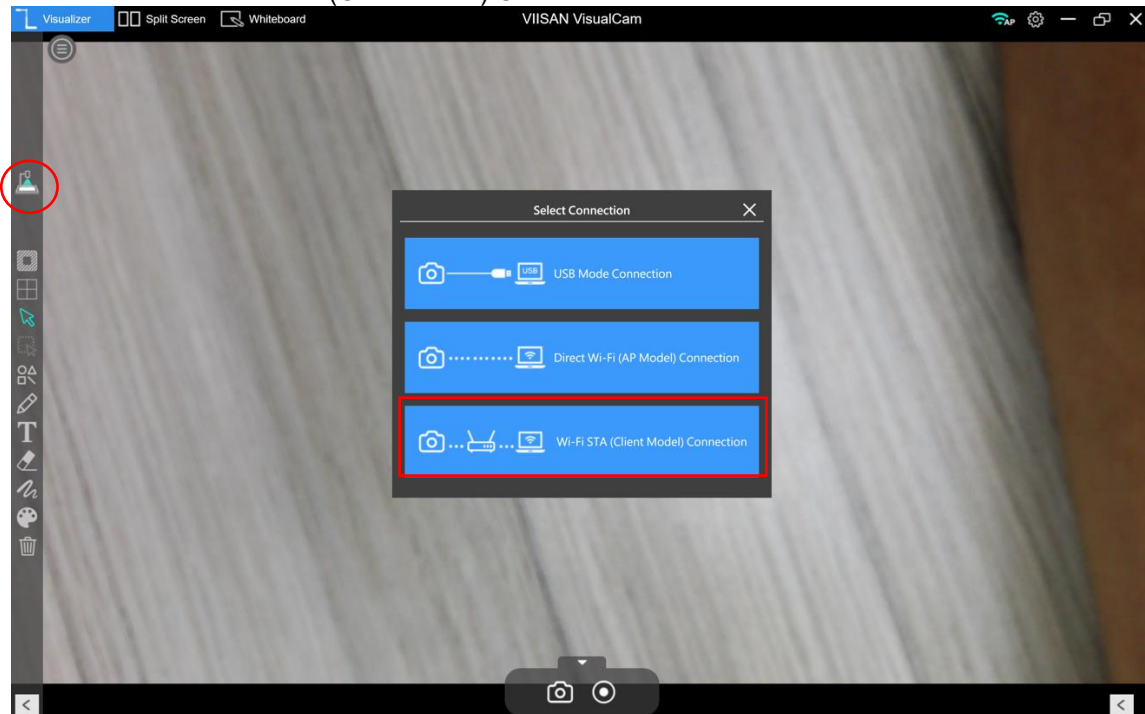
Web Page Settings Instruction

Web Page Menu Function Description

1. Login Screen

No	Item	Function Descriptions
1	User Login Account	Enter user login account (default: admin)
2	User Password	Enter user password (default: 9999)
3	Remember user account and password	Save user login account and password to the browser. When you log in next time, there is no need to re-enter them
4	Login	Log into the administrator screen on the website

2. Live Viewing
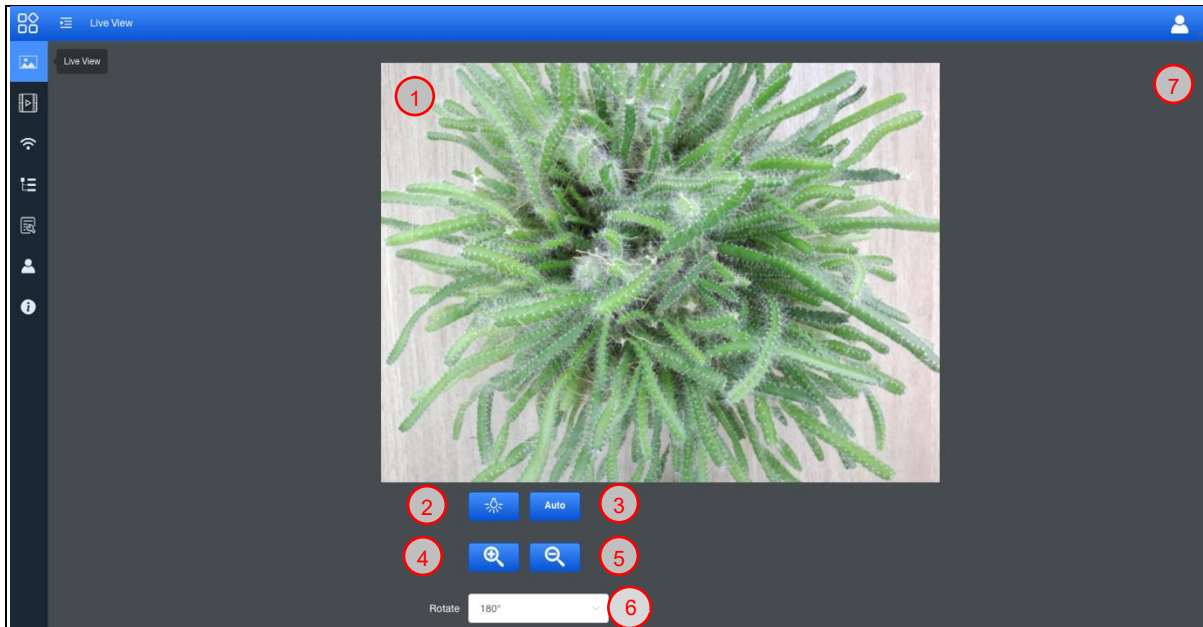
No	Item	Function Descriptions
1	Preview window	Display the screen currently captured by DC200
2	Autofocus	Automatically adjust the image to have the best brightness and focusing performance
3	Lamp mode toggle switch	Click lamp mode toggle switch: off / brightness 1 / brightness 2 / brightness 3
4	Zoom In	Zoom in image
5	Zoom Out	Zoom out image
6	Rotate the image	Rotate the image: 0° / 90° / 180° / 270° / Flip / Mirror
7	Logout	Log out of the web page

3. RTSP Streaming Settings
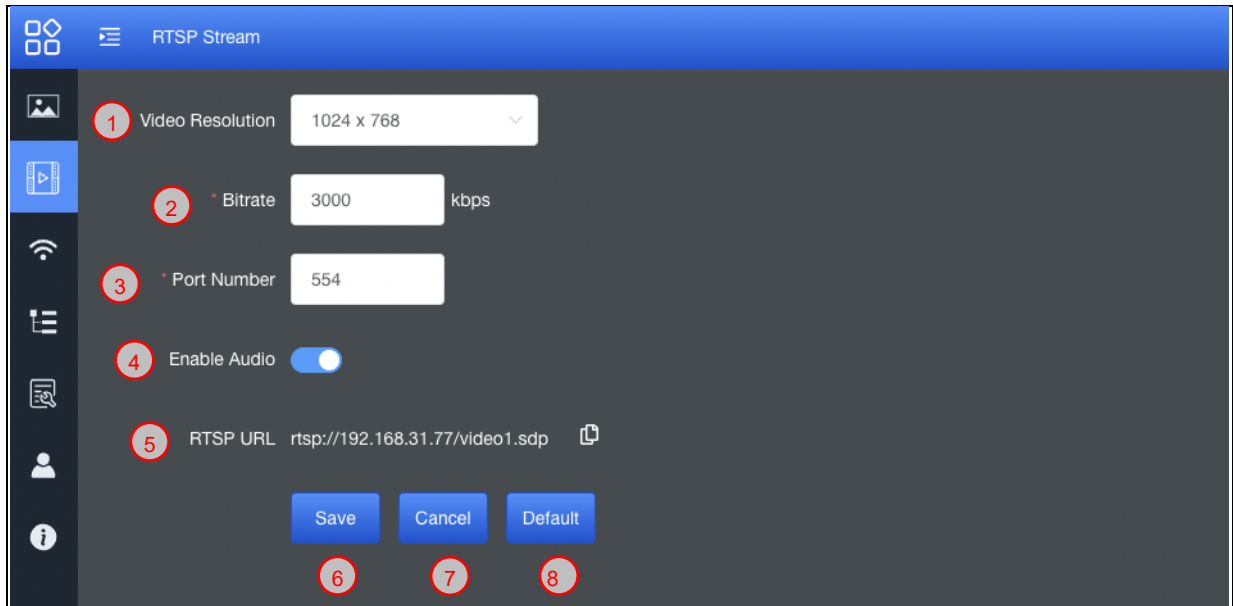
No	Item	Function Descriptions
1	Resolution	Show or set the RTSP output resolution and fps
2	Bit Rate (kbps)	Show or set the RTSP Bit rate (0 ~ 20000)
3	Port Number	Set the RTSP port (0 ~ 10000)
4	Audio Setting	Turn on/off RTSP audio
5	RTSP URL	Show current RTSP URL connection
6	Save	Save and change the RTSP streaming settings
7	Cancel	Cancel without saving
8	Default	Restore to default
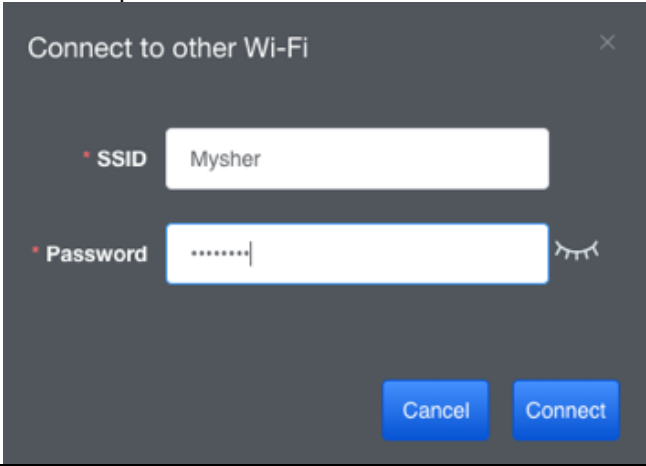
4. Wi-Fi Setting (Access Point Mode)
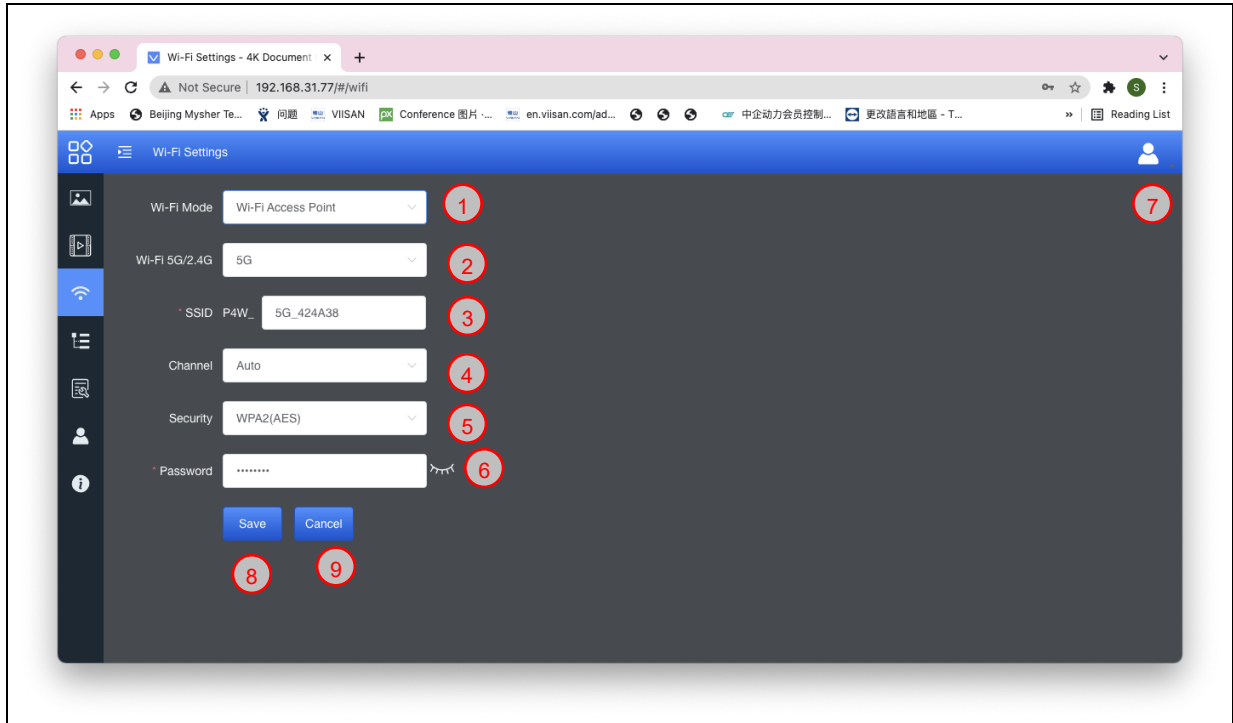
No	Item	Function Descriptions
1	Wi-Fi Mode	Select Access Point or Client Mode
2	Wi-Fi 5G/2.4G	Switch between 5G / 2.4G under Wi-Fi Access Point mode
3	Device Name (SSID)	Device name of wireless network
4	Channel	Select the channel based on different regions
5	Security	Wi-Fi encryption setting
6	Password	Connect the Wi-Fi SSID password
7	Show Password	Show the Wi-Fi SSID password
8	Save	Save and change the wireless network settings
9	Cancel	Cancel without saving

5. Wi-Fi Setting (Client Mode)

No	Item	Function Descriptions
1	Wi-Fi Mode	Select Access Point or Client Mode
2	Scan	Scan nearby wireless network devices
3	Disconnection	Disconnect from current wireless network device
4	Remove	Remove the selected wireless network device from the list
5	List of Wi-Fi Wireless Network Device Names	Click the wireless device and the following image will be displayed. Enter the password to connect to various wireless network devices
6	Device Name	Device name of wireless network
7	Connection Status	Display the wireless network device to which DC200 is currently connecting. If connected, the corresponding field of said wireless device will display "Connected", otherwise it would stay blank
8	Encryption	The current encryption setting of the wireless network device
9	Signal Status	Show the degree of the Wi-Fi signal

6. System Network Information
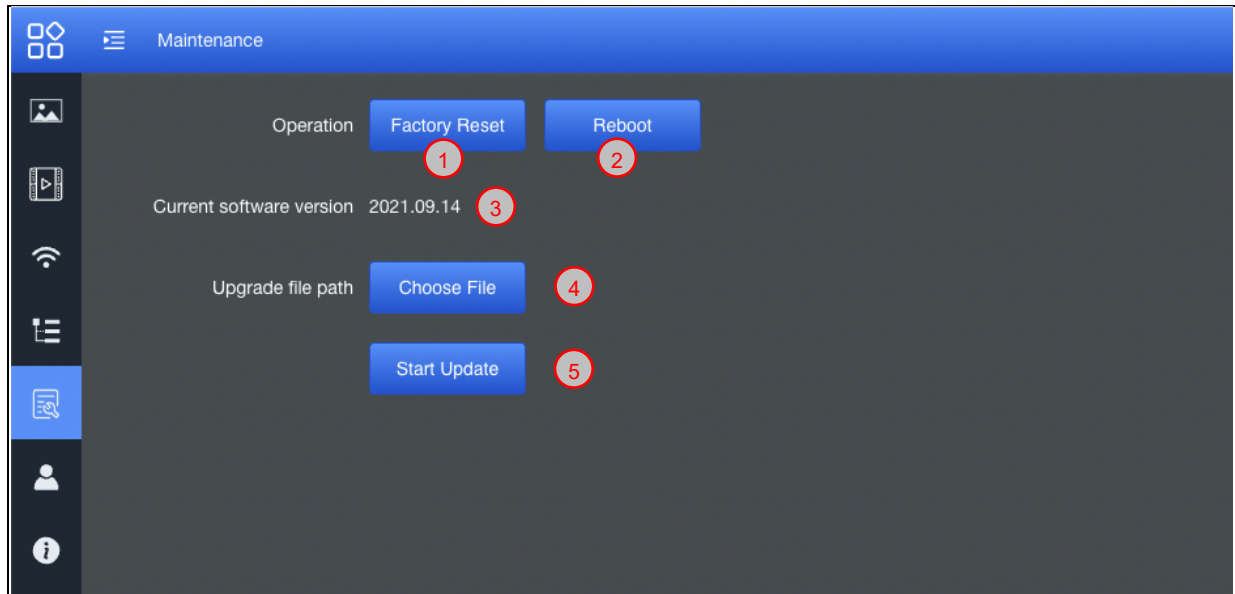

No	Item	Function Descriptions
1	Network	The network setting of this DC200 device. When the DHCP function is closed, click edit to enter edit mode and change the network setting.

7. Maintenance

No	Item	Function Descriptions
1	Reset to the default value	Select the reset button to resume the factory default setting as the web page setting
2	Reboot	Click the reboot button and reboot the device
3	Current Firmware version	Display current firmware version
4	Upgrade file path	Choose firmware *.bin file
5	Start Update	Click and start update the firmware

8. User Account

No	Item	Function Descriptions
1	User Name	Allow modify the user login account (default: admin)
2	Password	Allow modify the login password (default: 9999)
3	Save	Save and change the wireless network settings
4	Cancel	Cancel without saving

9. About

4K Document Camera

Firmware Version: 2021.09.14
MAC Address: 20-0D-B0-42-4A-38
Serial Number: SN:61435400001

No	Item	Function Descriptions
1	Related Information	Display information about the manufacturing of this device

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

Manufacturer：Clear Touch Solutions, Inc.

Product Name：4K Wireless Document Camera

Model Number：DC200

Responsible Party – Contact Information

Supplier：Clear Touch Solutions, Inc.

1100 Thousand Oaks Boulevard , Greenville,South Carolina United States 29607

e-mail   **:** info@getcleartouch.com

FCC Compliance Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.