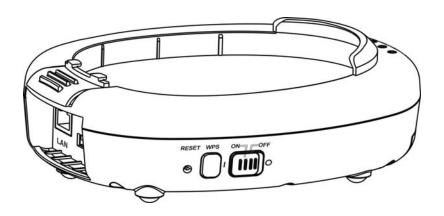
DC-W50 Wireless Docking

User Manual - English



[Important]

To download the latest version of Quick Start Guide, multilingual user manual, software, or driver, etc., please visit Lumens

http://www.Mylumens.com/support.php



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Chapter 1 Safety Instructions

Please use the product following the safety instructions below:

1. Operation

- 1.1 Please use the product in the recommended operating environment.
- 1.2 Do not place Light Engine in tilted position.
- 1.3 Do not place the product on an unstable trolley, stand or table.
- 1.4 Do not use this product near water or source of heat.
- 1.5 Use attachments only as recommended.
- 1.6 Use the type of power source indicated on this Product. If you are not sure of the type of power available, consult your dealer or local electricity company for advice.
- 1.7 Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire.
 - Ensure the plug is free of dust before inserting it into a socket.
 - Ensure that the plug is inserted into the socket securely.
- 1.8 Do not overload wall sockets, extension cords or multi-way plug boards to avoid potential risks.
- 1.9 Do not block slots and openings in the case of this product as poor ventilation may lead to overheating of this product.
- 1.10 Except as specifically instructed in this User Manual, do not attempt to open or remove covers by yourself. It may expose you to electric shock or other hazards. Refer all servicing to licensed service personnel.
- 1.11 Unplug the HD Camera from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the power cord or plug becomes damaged or frayed.
 - If liquid is spilled into the Product or the Product has been exposed to rain or water.

2 Installation

2.1 Do not install this product in the embedded way unless there is proper ventilation device.

3 Battery

- 3.1 The batteries for this product is not removable, in case of failure, please consult with the original factory for maintenance.
- 3.2 Do not use the product any more when the indicator flickers red indicating low power, otherwise the capacity of storage of the battery would be affected.



3.3 The charging of the product may cause overheating, do not place the product in the place where it is badly ventilated.

4 Storage

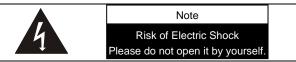
- 4.1 Do not place the Product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 4.2 Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the Product.
- 4.3 Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- 4.4 Do not place this product or accessories on top of vibrating equipment or heated objects.

5 Cleaning

5.1 Unplug all the cables before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.

Precautions

Warning 1: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.





Caution: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to licensed service personnel.



This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock.



This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.

■ FCC Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with



the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and consider removing the no-collocation statement.

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.

Caution

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

■ EN55022 (CE Radiation) Warning

This product is intended for use in a commercial, industrial, or educational environment. It is not intended for residential use.

This is a Class A product. In a residential environment it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a conference room, reception room or hall.

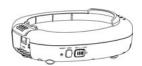


Chapter 2 Package Contents

DC-W50

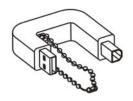
Quick Start Guide

USB connector holder





(For download of other language versions, please visit Lumens website)



Adapter

Power Cord

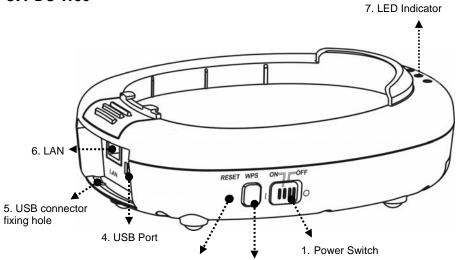




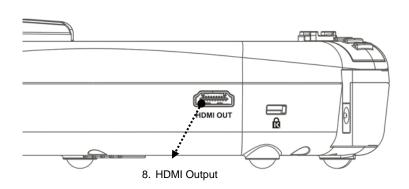
Appearance may vary depending on country/region

Chapter 3 Product Overview

3.1 DC-W50

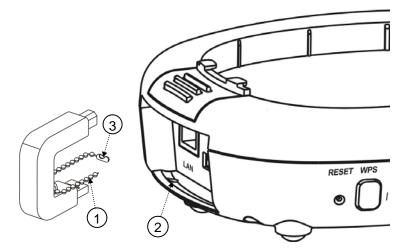


3. Default Values 2. WPS Button



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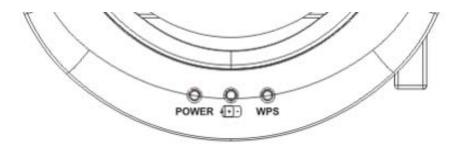
3.2 Lock USB Connector Holder



- 1. Disconnect the ball chain on the USB connector holder.
- 2. Thread the ball chain through the connector fixing hole on DC-W50.
- 3. Shackle the ball chain.



Chapter 4 Description of LED indicator



- 4.1 POWER: The indicator lights blue in normal conditions.
- 4.2 Power status (+)-:

4.2.1 No Light: No Power

4.2.2 Blue Light: Full Power

4.2.3 Red Light: Low power

4.2.4 Flickering Blue: In charging status, if it is charged when the power is not enough, it will flicker red

4.3 WPS:

4.3.1 Flickering Red: Connection detection

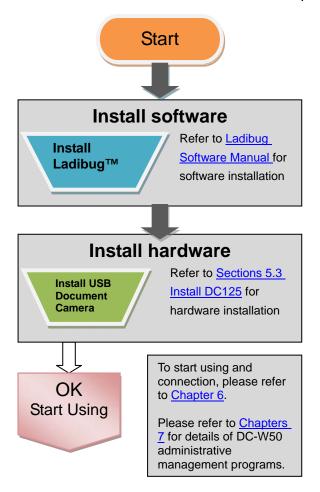
4.3.2 Blue Light: Successful connection



Chapter 5 Installation and Connections

5.1 Installation flow chart

This product shall be used together with our company's special software **Ladibug** and **USB Document Camera**, please install and use in accordance with the instruction as shown in the picture below.





5.2 Installing Application Software

5.2.1 System Requirements

Windows XP	Windows Vista / Windows 7 / 8	MAC OS X 10.7 / 10.8 / 10.9
Min CPU: Intel Core 2	Min CPU: Intel Core 2	Min CPU: Intel Pentium®
Duo 2 GHz	Duo 2 GHz	2 GHz Intel Core 2 Duo
Min Memory: 1 GB RAM	Min Memory: 1 GB	Min Memory: 1 GB
 Supporting Direct X 9 	(32-bits)/2 GB(64-bits)	DDR2 667 Hz or above
Min Resolution: 1024 x	 Supporting Direct X 9 	Min Resolution: 1024 x
768	and WDDM 1.0	768
Min Hard Drive Space: 1	Min Resolution: 1024 x	 24-bit full color display
GB	768	Min Hard Drive Space: 1
 Windows XP SP2 or 	Min Hard Drive Space: 1	GB
above	GB	 QuickTime 7.4.5 or
		above

5.2.2 Install Ladibug™

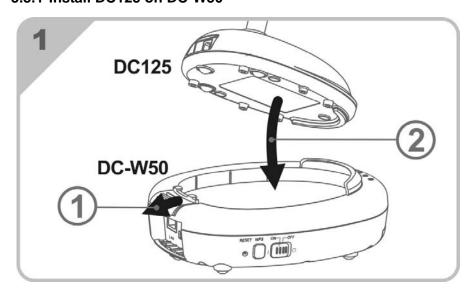
Please download **Ladibug™** and **Ladibug Software User Manual** software at Lumens website.

- a. Windows System: Please use Ladibug PC 3.x
- b. MAC System: Please use Ladibug MAC 3.x
- c. iOS System: Please search *Ladibug* on App Store, iPad shall use iOS 7.0 version or above

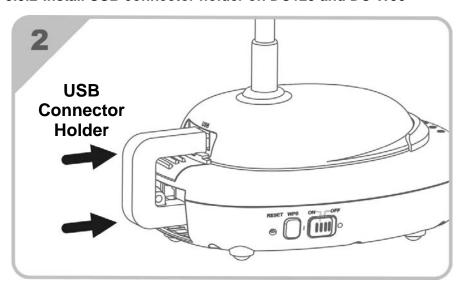


5.3 Install DC125

5.3.1 Install DC125 on DC-W50

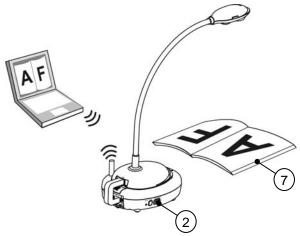


5.3.2 Install USB connector holder on DC125 and DC-W50



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Chapter 6 Start Using



- 1. Charge the unit for 3 hours before the first use.
- 2. Switch power to [ON]. (Caution: When the unit is fully charged, (+)-) indicator lights blue)
- 3. To start connection of DC-W50 with computer, please follow the steps of **6.1.1 Manual connection**.
- 4. Modify [Device Name] and [SSID] before the first use. Please follow the steps of 6.1.3 Change the SSID for modification.
- 5. Double click on 🔝 icon to open **Ladibug™** Software.
- 6. Click to open [Search Window].
- Select "Wireless Document Camera" to search for the DC-W50 which can be connected. After finishing the search in the list, click DC-W50 to start operation
- If firewall warning occurs in the first use, please check the "LAN" and then press "Allow to Access".
- When POWER Frequency setting page displays, please complete the settings following the instructions on the screen.

<Remark> You are advised to confirm the local voltage/frequency before setting the POWER Frequency. For example, 60 Hz is applicable for America, Taiwan, Japan, etc; 50 Hz is applicable for Europe or other regions.

<Remark> For more information on the operation of Document Camera, please refer to Document Camera User Manual



6.1 Start wireless connection

[Note] How to improve the wireless signal quality

The working frequency band of IEEE 802.11 b/g/n is 2.4 or 5 GHz. The application of wireless equipment at adjacent frequency channel will interfere with each other, and such interferences include the same frequency interference and adjacent channel interference. In order to avoid interference, in the same space and between different wireless network groups, such as wireless telephone, Bluetooth devices, microwave oven and other equipment which might interfere the network communication, in case there is any of such equipment nearby your wireless device, please turn off such equipment, and move them to further places, or set the frequency channel of which to the channel at a distance of 2 or above channels.

Materials applied on the wall in the room, arrangement of the furniture, even the open or close of the door will influence the wireless signal. The wireless AP shall, to the greatest extent, be placed in the open space free of barrier. It is the best place to obtain the optimal signal coverage effect. For the degree of influence on signal, please refer to the table below:

Environment material	Possible degree of influence	Similar environment
Air Wood Parget		Compartment Interior wall
Asbestos		Ceiling
General glass		Window
Water		Aquarium
Brick	<u>^^</u>	General internal and external wall
Marble		Floor
Cement/concrete		Floor, external wall
Metal		Steel cabinet and steel compartment
The more, the larger degree of influence		



6.1.1 Manual connection

- a. Open the wireless network list on the computer.
- b. Select the [Lumens_Wireless_Flyer] in the network list, click
 [Connection] and then input the password for connection (pre-set password [ladibugflyer]) to start the connection.

6.1.2 WPS connection

- a. Open the wireless network list on the computer.
- b. Select the [Lumens_Wireless_Flyer] in the network list, press the [Connection] and then press the WPS on DC-W50, the connection will be completed after the WPS light turns to blue.

6.1.3 Change the SSID

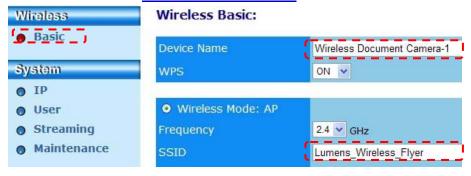
- a. Open the Internet Explorer webpage browser, and enter [192.168.1.1] (default) in the address bar.
- b. Enter the Login Name [Admin].
- c. Enter the Password ([1234] by default), and click the [Login] button.
- d. Enter the [Basic] page.
- e. Enter new [Device Name] and [SSID], and click [Save] to apply the changes.

[Note] Please use English letters and numbers in Device Name and SSID name.

Device Name: Device name of Document Camera

SSID: Device name of wireless network

f. Please refer to **6.1.1 Manual connection** for reconnection.





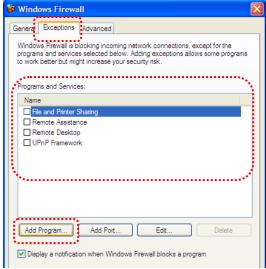
6.2 Change the setting of firewall

6.2.1 Windows XP

- a. Select [Console] in [Start] menu.
- b. Click [Information Security Center], and then click [Windows Firewall].

[Remark] Click [Windows Firewall] in the traditional view of [Console].

c. In [Windows Firewall Setting] window, click the tab [Exceptions].



- d. Be sure to select *Ladibug* under [Programs and Services], and then click [OK].
- e. If *Ladibug* was not listed under [Programs and Services], then click [Add Program].
- f. Select the *Ladibug* program, then click [OK]. If it was not listed, please click [Browse], select *Ladibug* program, and then click [Enable].

[Remark] Ladibug View may be displayed in the form of Ladibug.exe.

g. Exit [Windows Firewall Setting], and start to use the software.

6.2.2 Windows 7

- a. Select [Console] in [Start] menu.
- b. Click [System and Security], and then click [Allow a program

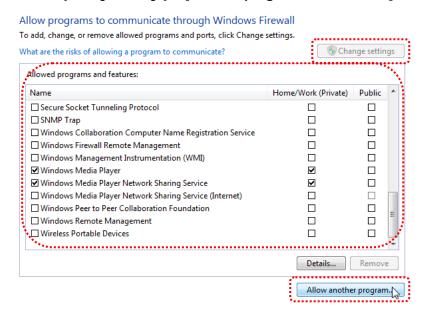


through Windows Firewall].



[Remark] Click [Windows Firewall] in the icon view of [Console].

c. Select [Change settings] in [Allowed programs and features] window.



- d. Please select *Ladibug* program in the list.
- e. If *Ladibug* was not listed, please click [Allow another program], and then you will find *Ladibug* program.
- f. Select *Ladibug*, and then click [Add]. If it was not listed, please click [Browse], select *Ladibug* program, and then click [Enable].

[Remark] Ladibug View may be displayed in the form of Ladibug.exe.

- g. Click [OK] in [Allowed Program] window.
- h. Close [Windows Firewall Setting] window.

6.2.3 Windows 8

a. Point the mouse to the upper right corner of the screen and move the

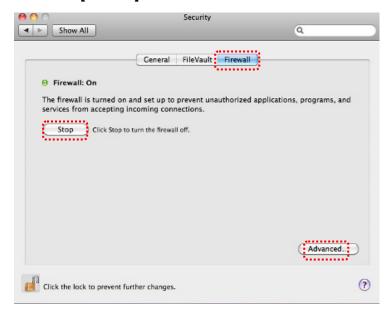


mouse pointer down, then press [Search] and input the firewall in the search block, click or press [Allow the Application Program or Function to pass Windows Firewall].

- b. Click or press [Change Settings]. System may ask for your system administrator password or confirm your selection.
- In the allowed application program list, find Ladibug, check the checkbox beside the application program, and then click or press [Confirm].

6.2.4 MAC OS X 10.7 / 10.8 / 10.9

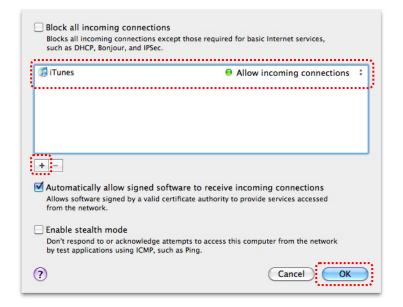
- a. Select the setting of [System Preferences] in the Apple Menu.
- b. Click [Security].
- c. Click the tab [Firewall].



- d. Click the lock on the lower left corner to unlock the panel, and enter the username and password of the Administrator.
- e. Click [Start] to enable the firewall.
- f. Click [Advanced] at the lower right corner.
- g. Select [Automatically allow signed software to receive incoming connections].



h. Change *Ladibug* in the list to [Allow incoming connections]. If the software name was not listed, please click [+] to add new programs to the list, and start to use the software.





Chapter 7 Administration Menu

7.1 Wireless

7.1.1 Basic

After you enter the webpage, the [Basic] page displays. You can check and modify the current setting of the DC-W50



NO	Item	Function Descriptions
1.	Device Name	Device name of Document Camera
2.	WPS	Turn on/off the WPS function
Wire	eless Mode: AP	Setup item when DC-W50 is set for AP or single
		unit use
3.	Frequency	2.4 GHz/5 GHz frequency band setting
4.	SSID	Device name of wireless network
5.	Channel	2.4 GHz channel: 1 ~ 11
		5 GHz channel: CH149 5745 MHz, CH153 5765
		MHz, CH157 5785 MHz, CH161 5805 MHz,
		CH165 5825 MHz
6.	Encryption	Encryption mode settings
7.	Password	Set the passport for connection to AP
Wire	eless Mode: Client	Setup item when DC-W50 is set for Client use
8.	SSID	Device name of wireless network
9.	Encryption	Encryption mode settings
10.	Password	Input the passport for connection to AP

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7.2 System

7.2.1.1 IP-LAN

Network setting page



NO		Function Descriptions
1	IP	IP address setting
2	Subnet Mask	Netmask
3	DHCP	Turn on/off DHCP function
4	DHCP Server Address Range	Available address range

7.2.1.2 User-User Configure

Administration page for change of webpage password

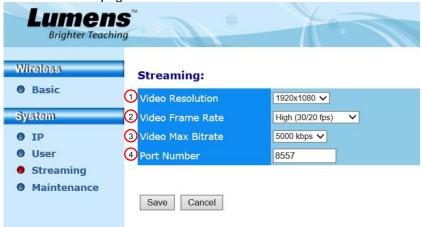


NO		Function Descriptions
1	Administrator	Webpage administration account (cannot be
		changed)
2	Password	New password
3	Password(Confirm)	Re-type password for confirmation

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7.2.1.3 Streaming

You can update the software, return to the default value and restart the machine on this page.

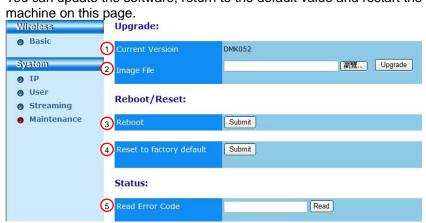


NO		Function Descriptions
1	Video Resolution	Set Resolution
2	Video Frame Rate	Frame rate setting
3	Video Max Bitrate	Bit rate setting
4	Port Number	COM port setting



7.2.1.4 Maintenance

You can update the software, return to the default value and restart the



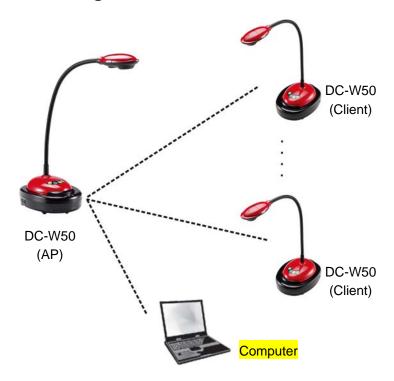
NO		Function Descriptions
1	Current Firmware	DC-W50 Firmware Version
	Version	
2	Image File	Upload the updated firmware file
3	Reboot	Restart the DC-W50
4	Reset to factory	Reset to the default value
	default	
5	Read Error Code	Read the error codes caused by equipment
		abnormality



Chapter 8 Set DC-W50 for AP use

Through this connection method, multiple DC-W50 can be controlled through DC-W50 at AP terminal

8.1 Connection diagram



8.2 Equipment requirements

- Two or more DC-W50
- One computer equipment
- One router (depending on network requirements)

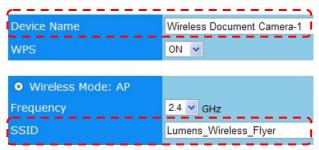
8.3 DC-W50 setup

8.3.1 DC-W50 host setup

a. Turn on DC-W50 host



- b. Open the computer wireless network list, connect the [Lumens_Wireless_Flyer], enter the connection password [ladibugflyer] to complete the network connection.
- c. Open the web browser, and enter [192.168.1.1] in the address bar
- d. Enter the Login account [Admin] and password [1234]
- e. Enter the [Basic] page to modify the [Device Name] and [SSID] of AP Wireless Basic:



Device Name: Wireless Document Camera-AP (Custom)

SSID: Lumens_Wireless_Flyer_AP (Custom)

f. Click [Save] to apply the changes

8.3.2 DC-W50 customer settings

- a. Turn on customer DC-W50[Remark] Turn on one customer DC-W50 each time for initial
- b. Open the computer wireless network list, connect the [Lumens_Wireless_Flyer], enter the connection password [ladibugflyer] to complete the network connection
- c. Open the web browser, and enter [192.168.1.1] in the address bar
- d. Enter the Login account [Admin] and password [1234]
- e. Enter the [Basic] page to modify the [Device Name]

Device Name: Wireless Document Camera-Client-1(Custom)





f. Select the wireless mode as [Client] and enter the SSID of AP [Lumens_Wireless_Flyer_AP] and connection password [ladibugflyer]



g. Click [Save] to apply the changes

8.3.3 Start Using

- a. Open the computer wireless network list, connect the
 [Lumens_Wireless_Flyer_ap], enter the connection password
 [ladibugflyer] and complete the network re-connection with DC-W50
 AP terminal
- b. Start the Ladibug software
- c. Click at to open [Search Window]
- d. Select "Wireless Document Camera" to search for the DC-W50 which can be connected. After finishing the search in the list, click one DC-W50 to start operation
- e. If it is necessary to switch to other DC-W50s, please open the [Search Window] again and click other DC-W50s



Chapter 9 Troubleshooting

This chapter describes problems you may encounter while using DC-W50. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact your distributor or the service center.

No.	Problems	Solutions
1	No indicator is on after DC-W50 power is switched on	Please make sure DC-W50 has enough battery power (the battery indicator lights blue). If the battery indicator lights red, please connect the power cord to charge the device.
2	Automatic connection failed.	Please follow manual connection steps by referring to 6.1.1 Manual connection.
3	Auto connection is always timed out	It is recommended that you use the manual connection. Please refer to 6.1.1 Manual connection.
4	DC-W50 connection failed	Confirm that there is no barrier interfering the signal between the WLAN card and DC-W50, and proper distance for wireless transmission, to obtain better connection quality.
		Overheating of WLAN card might cause abnormal operation of product. It is recommended to use this product in well ventilated place.
		Please make sure that DC-W50 connection setting is correct.
		If encrypt with WEP, please check whether the settings or password is wrong.
5	DC-W50 can be connected, but DC125 failed to operate normally.	 Ensure that the USB connector holder is connected. Please re-start DC-W50 connection and confirm the USB connection holder has been connected to the DC-W50 and DC125, and then start the Ladibug™ software.
6	Open Ladibug™, black screen occurs when executing Proview	When connection might be blocked by firewall because of the use of wireless network, please refer to <u>6.2 Change firewall settings</u> .
7	If the computer crashes when executing any change of any settings	 Please first close the Ladibug[™], and then start to change the settings.
8	The webpage	Method 1: Please log in the webpage again.



	cannot be displayed when the setting is updated	Method 2: Please follow the steps of 6.1.1 Manual connection for reconnection Method 3: Please press and hold the DC-W50 [Reset] button for 5 seconds. After restarting, please follow the steps of Chapter 6 Start Using for reconnection. If the problem still occurs, please contact your distributor.
9	The corresponding DC-W50 cannot be identified when two or more DC-W50s are connected	Please follow the steps of <u>6.1.3 Change the SSID</u> to modify the SSID.
10	If you forget the password and cannot log in the administrator webpage	Please press and hold the DC-W50 [Reset] button for 5 seconds and restore the factory default values.
11	What if the signal is weaker?	Please adjust the place of DC-W50 to obtain better connection quality. Please go to the administrator webpage and set
		DC-W50 at different channel frequencies so as to avoid the interference of signal transmission.
12	The customer DC-W50 cannot be found when using Ladibug software	Please reset customer DC-W50 (press the DC-W50 [Reset] button for 5 seconds till restarting is completed), and reset in accordance with the <u>8.3.2 customer DC-W50 settings</u> , and resume operation.