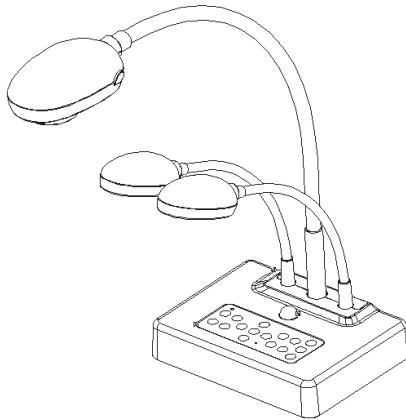


DC211

Visual Presenter

User Manual



[Important]

To download the latest version of Quick Start Guide, multilingual user manual, software, or driver, etc., please visit Lumens
<http://www.lumens.com.tw/goto.htm>

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Chapter 1 Precautions

Always follow these safety instructions when setting up and using the Visual Presenter:

1. Do not place visual presenter in tilted position.
2. Do not place the Visual Presenter on an unstable trolley, stand or table.
3. Do not use the Visual Presenter near water or source of heat.
4. Use attachments only as recommended.
5. Use the type of power source indicated on the visual presenter. If you are not sure of the type of power available, consult your dealer or local electricity company for advice.
6. Place the visual presenter on a place that it can be unplugged easily.
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.
8. Do not overload wall sockets, extensions leads or multi-way plug boards as this may cause fire or electric shock.
9. Do not place the visual presenter where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
10. Unplug the projector from the wall socket before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
11. Do not block the slots and openings in the projector case. They provide ventilation and prevent the visual presenter from overheating. Do not place the visual presenter on a sofa, rug or other soft surface or in a built-in installation unless proper ventilation is provided.
12. Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the Visual Presenter.
13. Except as specifically instructed in this User Manual, do not attempt to operate this product by yourself. Opening or removing covers may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
14. Unplug the visual presenter during thunderstorms or if it is not going to be used for an extended period, do not place the visual presenter or remote control on top of heat-emitting equipment or heated objects such as a car and etc.
15. Unplug the visual presenter from the wall outlet and refer serving to licensed service personnel when the following situations happen:
 - If the power cable or plug becomes damaged or frayed.
 - If liquid is spilled into it or the visual presenter has been exposed to rain or water.





<Note>: Using an incorrect battery type in the remote control may result in breakdown. Follow your country's instructions on how to dispose of used batteries.

■ **Safety Precautions**

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

This visual presenter has a 3-wire AC line Plug. This is a safety feature to ensure that the plug will fit into the power outlet. Do not try to disable this safety feature.

If the Visual Presenter will not be used for an extended time, unplug it from the power socket.

	<table border="1"><tr><td>Note</td></tr><tr><td>RISK OF ELECTRIC SHOCK</td></tr></table>	Note	RISK OF ELECTRIC SHOCK	
Note				
RISK OF ELECTRIC SHOCK				
Note: 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 Warning**

This equipment has been tested and found to comply with the limits for a Class A or B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

■ **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 domestic 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, meeting room or auditorium.

Revisions

Chapter 2 Package Content

DC211



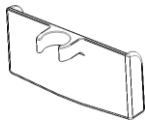
Quick Start Guide
(For download of other language versions, please visit Lumens website)



USB Cable



Remote Control Holder



VGA Cable



Remote Control



C-Video Cable



Power Cord



Appearance may vary depending on country/region

Microscope Adapter



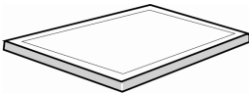
Pouch



RS232 Adapter (Optional)



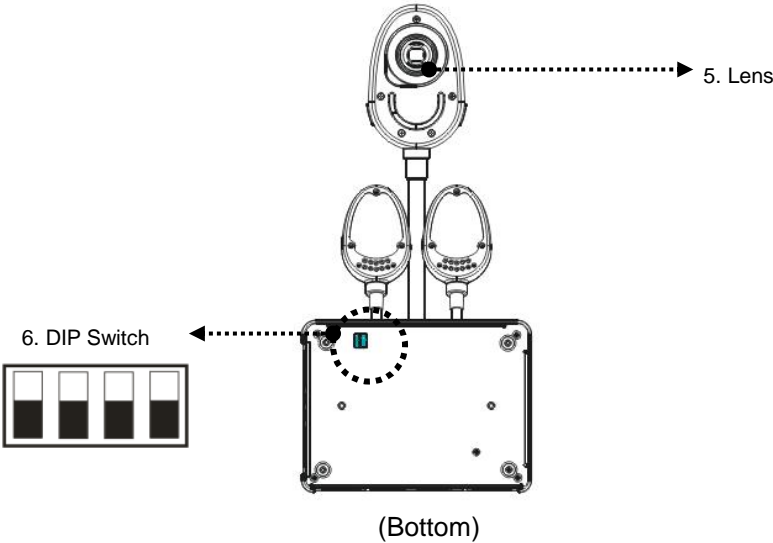
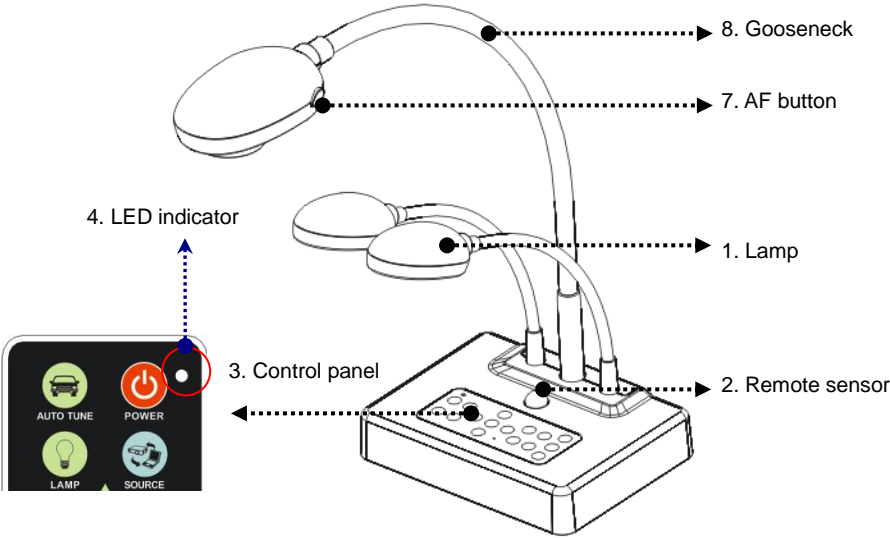
Backlight (Optional)



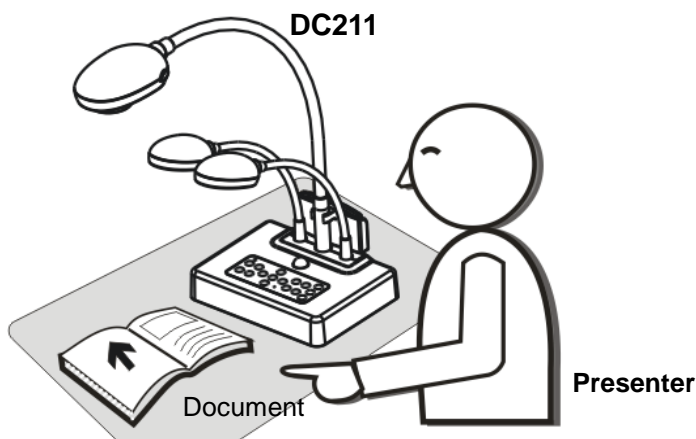
Padded Carry Bag (Optional)



Chapter 3 Product Overview

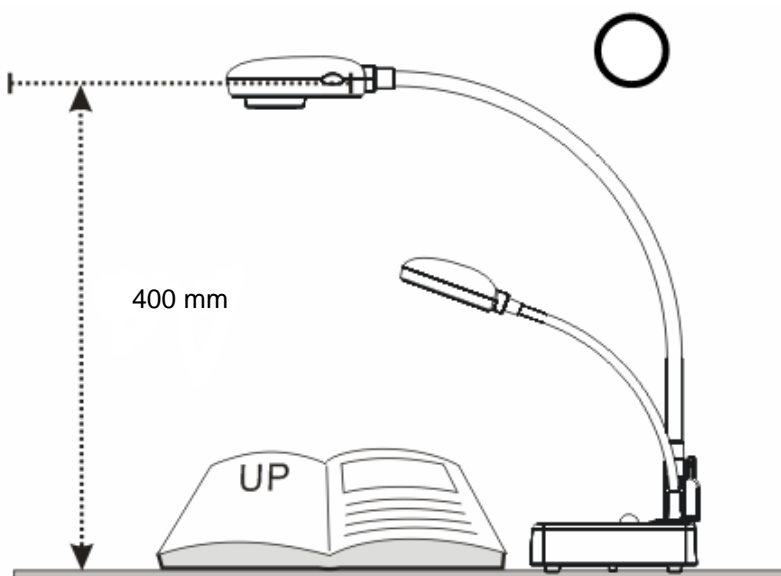


3.1 Relative position of the presenter and document

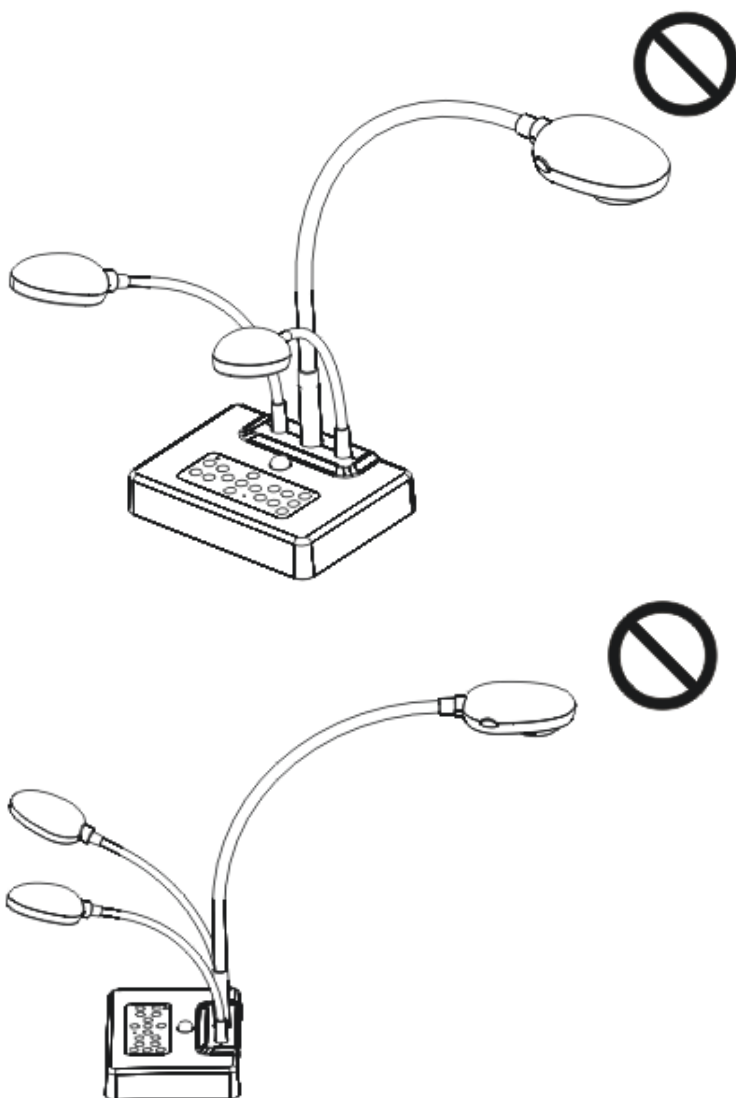


3.2 Recommend distance

* About 400 mm distance between camera and the desktop is recommended.

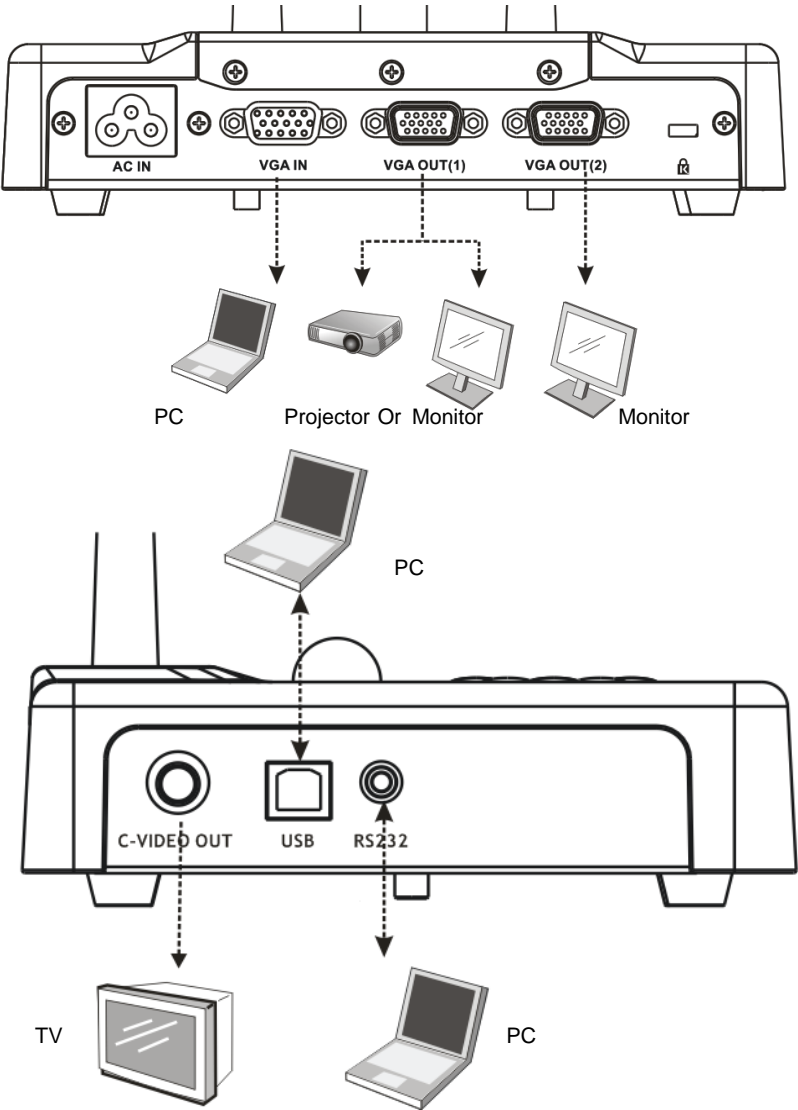


3.3 Incorrect Use



Chapter 4 Installation and Connections

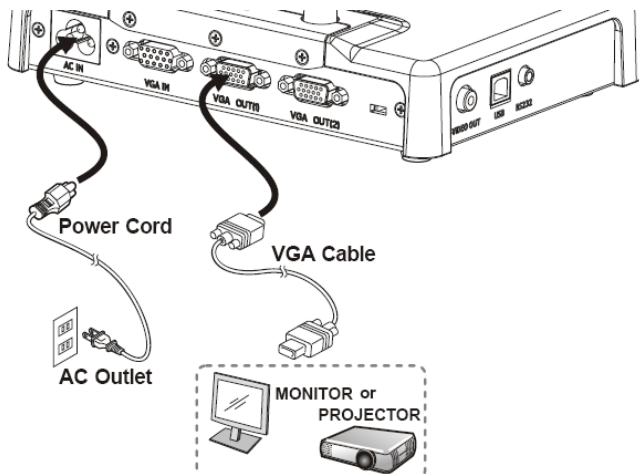
4.1 System Diagram



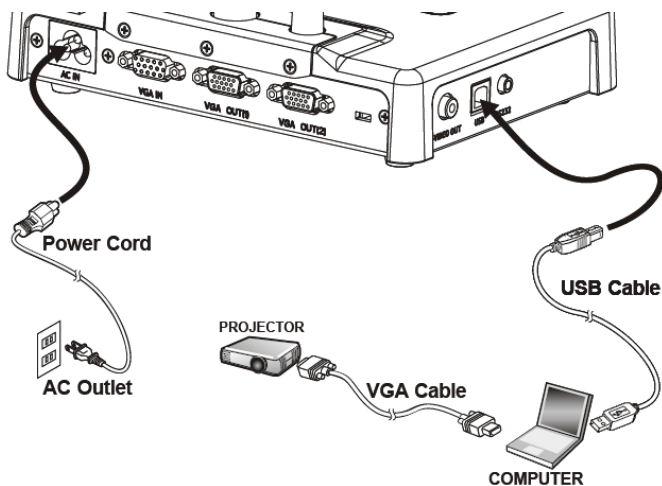
4.2 Mounting the DC211 at Desktop

1. Please set up the DIP Switch Settings first. Refer to [Chapter 6 DIP Switch Settings](#) in the DC211 user manual.
2. Please refer to the [Base Installation Guide](#) for installation instructions for all parts.

4.3 Connecting to a Projector or Monitor

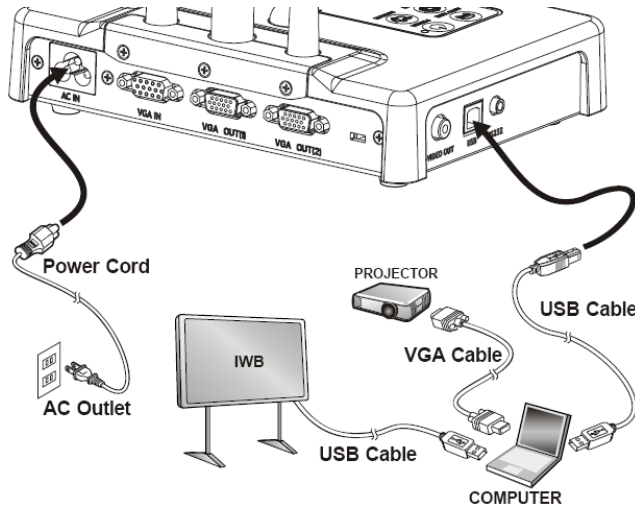


4.4 Connecting to a Computer and Use Lumens Software



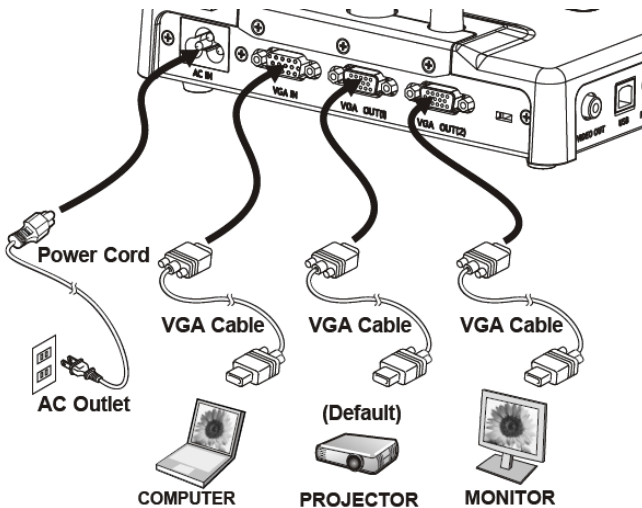
- Drivers and software can be downloaded from the Lumens website.

4.5 Connecting to an Interactive Whiteboard (IWB)



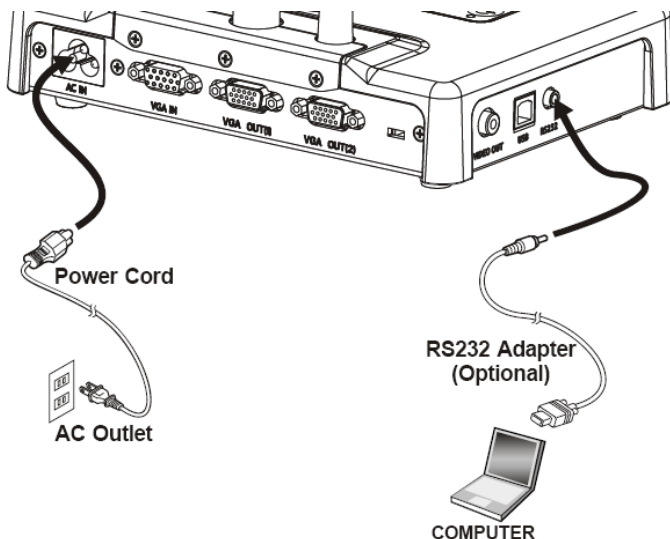
- It can be interoperated with major IWB models. The user manual can be downloaded from Lumens website.

4.6 Connecting to a Projector, Computer, and Monitor at the Same Time



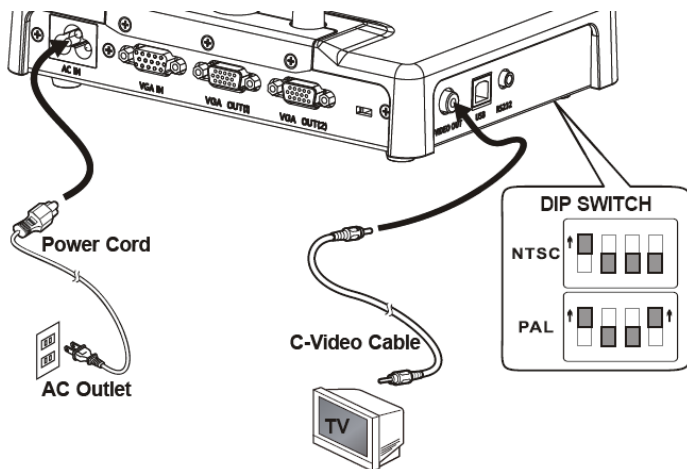
- Press [SOURCE] button to switch the image source.

4.7 Connecting to a Computer with RS232



- After connecting to the RS232 cable, you can use RS232 commands.

4.8 Connecting to a TV



- NTSC: U.S.A., Canada, Mexico, Panama, Chile, Japan, Taiwan, Korea, and Philippines.
- PAL: Countries/regions not listed above.

<Note>: DIP switch settings will not be available until the DC211 is restarted.

<Note>: In C-Video Mode, some buttons on the machine panel and remote control are not working.

<Note>: It doesn't support C-Video and VGA simultaneously. Once C-Video is on, VGA OUT is not supported.

4.9 Installing application software

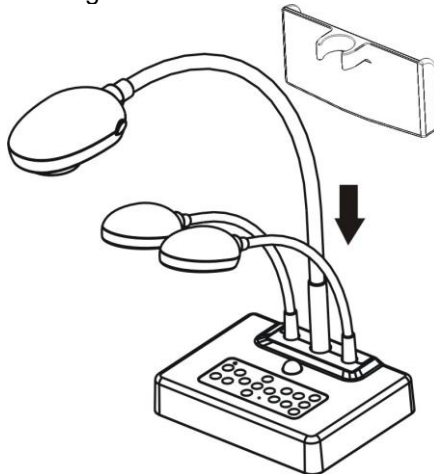
After installing the USB driver and application software, you can use the following functions:

- Control the DC211.
- Capture and record images.
- Annotate the image, highlight important details and save it.
- Support the full screen function.

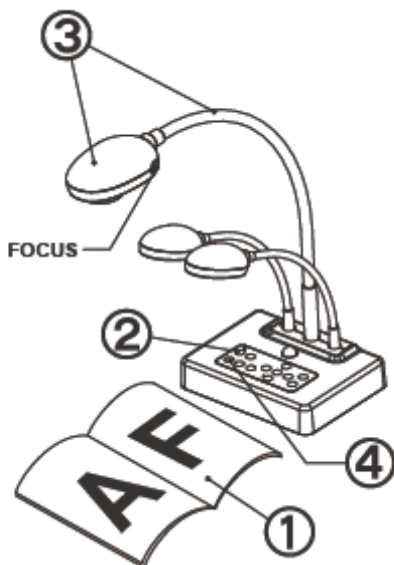
<Note>: Please refer to Ladibug™ software user manual for installation steps and software operation.



4.10 Installing remote control holder

Insert the holder over the gooseneck of the camera and push it down



Chapter 5 Start Using



1. Place an object to be displayed under the camera.
2. Turn on Power .
3. Adjust the gooseneck and lens to the appropriate positions.
4. Press [AUTO TUNE]  button to optimize the image. You are ready to teach / present.
 - Each time the camera head is moved, press the [FOCUS] button to refocus the lens.

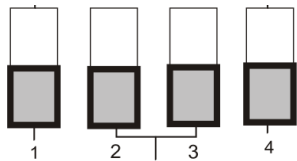
- When using the **remote control**, aim at the receptor on the DC211, and press the power button.
- Once DC211 is turned on, the LED on the **control panel** will flash a few times and stay lit. Please contact your distributor if the LED is not on.

Chapter 6 DIP Switch Settings

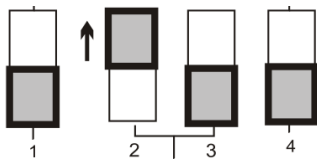
<Note>: You must re-start DC211 for DIP switching configuration to take effective.

6.1 Connecting to a Projector or Monitor

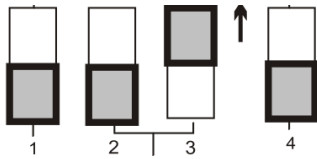
6.1.1 SXGA output (default values):



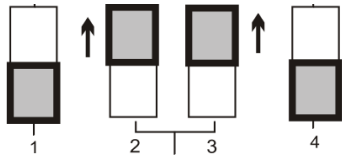
6.1.2 WXGA output



6.1.3 XGA output

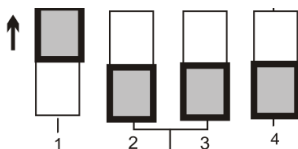


6.1.4 Special mode

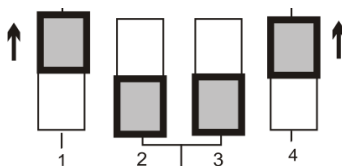


6.2 Connecting to a TV

6.2.1 NTSC Settings: U.S.A., Taiwan, Panama, Philippines, Canada, Chile, Japan, Korea, and Mexico



6.2.2 PAL Settings: Countries/regions not listed above




<Remark>: It doesn't support C-Video and VGA simultaneously. Once C-Video is on, VGA OUT is not supported.

Chapter 7 Control Panel/Remote Control and Setting Menu

7.1 Functions of control panel and remote control

<Remark>: The functions below are listed alphabetically

NAME	Function Descriptions	Operation
	Turn on and off the visual presenter.	Remote control/ Control panel
◀, ▶, ▲, ▼	Move up, down, left or right to select the needed function.	Remote control/ Control panel
AUTO TUNE	Automatically adjust the image to have the best brightness and focusing performance.	Remote control/ Control panel
BRT+/-	Adjust the brightness of the image.	Remote control/ Control panel
CAPTURE	Capture the image to the internal memory.	Remote control/ Control panel
DELETE	Delete the image stored in the internal memory.	Remote control
ENTER	Enter/Activate functions.	Remote control/ Control panel
FOCUS	AF Button.	Either sides of the lens
FREEZE	Freeze the current image to temporarily stay on the screen. Press again to defreeze.	Remote control/ Control panel
LAMP	Turn on / off the lamp.	Control panel
MENU	Activate the Setting Menu/exits the menu.	Remote control/ Control panel
PAN	Enable/Disable Image Pan Mode.	Remote control/ Control panel
PBP	Compare live images with captured images.	Remote control/ Control panel
PLAYBACK	Play the captured image.	Remote control/ Control panel
ROTATE	Rotate the image by 0°/90°/180°/270°	Remote control/ Control panel
SLIDE SHOW	Show the photos or videos stored in the internal memory in slide mode.	Remote control
SOURCE	Switch between different sources of signals: 1. Live images (default). 2. PC.	Remote control/ Control panel
ZOOM +/-	Increase or decrease the image size.	Remote control/ Control panel

7.2 Setting Menu

<Remark>: Press [Menu] on the remote control or control panel to enter the Setting Menu; the bold underlined values in the following table are defaults.

1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
Display	Focus	◀ <input type="text"/> ▶	Use the left and right arrow keys to adjust focal length on an object.
	Mode	<u>Normal</u> /Slide/Film/Microscope	Select Normal/Film/Slide/Microscope Mode
	Photo/Text	<u>Photo</u> /Text/Gray	Use the left and right arrow keys to select Image Mode.
	PBP	<u>Enter</u>	Press [Enter] to immediately activate photo comparison mode.
	Rotate	0°/90°/180°/270°	Rotate the image.
Storage	Slide Show	<u>Enter</u>	Show the photos or videos stored in the internal memory in slide mode.
	Slide Show Effect	1. <u>Off</u> 2. Shutter 3. Right 4. Down 5. Side 6. Open	Use the left and right arrow keys to select the image switch mode.
	Delay	1. 0.5 Sec 2. <u>1 Sec</u> 3. 3 Sec 4. 5 Sec 5. 10 Sec 6. Manual	Use the left and right arrow keys to select the delay time. Select manual mode to switch images manually.
	Delete All	Yes/ <u>No</u>	Use the left and right arrow keys to select, and then press [Enter] to confirm the deletion of photos.
	Format	Yes/ <u>No</u>	Use the left and right arrow keys to select, and then confirm by pressing [Enter].
	Auto Erase	On/ <u>Off</u>	Use the left and right arrow keys to turn the auto erase function on and off. When [On] is selected, the saved images will automatically be deleted when the system is turned off.

1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
	USB Transfer	<u>Camera</u> /Storage Device	
Setting	Lamp	<u>ON</u> /OFF	Turn on/off the lamp
	AE	<u>ON</u> /OFF	Auto Exposure is on
	AWB	<u>Eenter</u>	Execute Auto White Balance
	Night vision	ON/ <u>OFF</u>	Set up Night Vision or cancel Night Vision
	Projector Type	DLP/ <u>LCD</u>	Use the left and right arrow keys to select the projector type and reduce image noise.
Advance	Language	1. <u>English</u> 2. 繁體中文 3. Deutsch 4. Français 5. Español 6. Русский 7. Nederlands 8. Suomi 9. Polski 10. Italiano 11. Português 12. Svenska 13. ČESKY	<u>English</u> Traditional Chinese German French Spanish Russian Dutch Finnish Polish Italian Portuguese Swedish Czech Use the left and right arrow keys in the language option to select the preferred language.
		Preset Load	Yes/ <u>No</u>
		Preset Save	Yes/ <u>No</u>
		Factory Reset	Yes/ <u>No</u>
			Download the saved parameter profile (such as Brightness, Lamp, Zoom, etc.) Save the parameter profile (such as Brightness, Lamp, Zoom, etc.) Reset all values to default values

Chapter 8 Descriptions of major functions

8.1 I would like to switch image sources

The default of image source is **Live Image**. Press [SOURCE] on the **remote control** or the **control panel** to switch to Live Image (Default) and computer in turns.

8.2 I would like to make text clearer and photos more colorful

Photo (**Photo mode**) is selected by default in the [Photo/Text] mode. You can change setting via the **remote control** or **control panel**.

- [Photo] (default): for viewing photos or text with photos, making photos more colorful.
- [Text]: for viewing text files, making the text clearer.
- [Gray]: for viewing black & white photos which will make the grayscale differentiation distinct.

To change the settings, please use the **remote control** or the **control panel**:

1. Press [MENU] to enter the Setting Menu.
2. Press [▶] or [◀] to select [Display].
3. Press [▼] to select [Photo/Text]. (Please refer to [the text above](#) and make the most appropriate selection).
4. Press [▶] or [◀] to select among [Photo] or [Text] or [Gray] modes.
5. Press [MENU] to exit.

8.3 I would like to zoom in/out images

1. Press [ZOOM+] on the **remote control** or **control panel** to zoom in images.
2. Press [ZOOM-] on the **remote control** or **control panel** to zoom out images.

8.4 I would like to use the auto focus

1. Press the **AF button** on the **camera head of main unit**.

8.5 I would like to adjust the brightness

If you use the remote control or the control panel:

1. Press [BRT +] to make it brighter.
2. Press [BRT -] to make it darker.

8.6 I would like to turn on/off the lamp

The default of the lamp is ON. When using the remote control:

1. Press [MENU] to enter the Setting Menu.
2. Press [▶] or [◀] to select [Setting].
3. Press [▼] to select [Lamp].
4. Press [▶] or [◀] to turn [ON]/[OFF].

The default of the lamp is ON. When using the control panel:

1. Press [LAMP] to switch ON/OFF.

8.7 I would like to automatically adjust the image to have best brightness and focusing performance

1. Press [AUTO TUNE] on the **remote control** or **control panel** to optimize the brightness and focusing performance.

8.8 I would like to capture images

1. Press [CAPTURE] on the **remote control** or **control panel** to capture and save images.

8.9 I would like to freeze images

1. Press [FREEZE] on the **remote control** or **control panel** to freeze the current image on the screen.

8.10 I would like to view captured images

1. Press [PLAYBACK] on the **remote control** or **control panel** to

display thumbnails of all captured images.

2. Press [▲] or [▼] or [◀] or [▶] to select the thumbnail you want you browse.
3. Press [ENTER] for the full-screen display of the image.
4. Press [▶] or [◀] to browse the previous/next image.
5. Press [PLAYBACK] to exit.
6. Press [MENU] to exit.

8.11 I would like to delete the captured images

Remote control:

1. Press [PLAYBACK].
2. Press [▲] or [▼] or [◀] or [▶] to select the thumbnail you want to delete.
3. Press [DELETE] to delete the selected file.
4. Press [▶] or [◀] to select [Yes].
5. Press [MENU] to exit.

Control panel:

1. Press [MENU] to enter the Setting Menu.
2. Press [▶] or [◀] to select [Storage].
3. Press [▼] to select [Delete All].
4. Press [▶] or [◀] to select [Yes].
5. Press [ENTER] to delete all photos.
6. Press [MENU] to exit.

8.12 I would like to automatically delete the captured images whenever it is turned off (Auto Erase)

1. Press [MENU] on the **remote control** or **control panel** to enter the Setting Menu.
2. Press [▶] or [◀] to access the [Storage] menu.
3. Press [▲] or [▼] to [Auto Erase].
4. Press [▶] or [◀] to select [ON].
5. Press [MENU] to exit.

8.13 I would like to pan the live image (PAN)

If you use the remote control or the control panel:

1. Press [PAN] to enter the image pan mode.
2. Press [▲] or [▼] or [◀] or [▶] to move and view the partial enlarged images.
3. Press [PAN] to exit the partial enlarged mode.

8.14 I would like to play the slides (Slide Show)

8.14.1 Setting the slide show effect:

1. Press [MENU] on the **remote control** or **control panel** to enter the Setting Menu.
2. Press [▶] or [◀] to select the [Storage] menu.
3. Press [▼] to [Slide Show Effect].
4. Press [▶] or [◀] to select image switch mode [Off/Shutter/Right/Down/Side/Open].
5. Press [MENU] to exit.

8.14.2 Setting delay time

1. Press [MENU] on the **remote control** or **control panel** to enter the Setting Menu.
2. Press [▶] or [◀] to select the [Storage] menu.
3. Press [▼] to enable [Delay].
4. Press [▶] or [◀] to select page-flipping time [0.5 Sec/1 Sec/3 Sec/5 Sec/10 Sec/Manual].
5. Press [MENU] to exit.

<Remark>: If the delay time is set to 0.5 sec, then it cannot play slide show effect.

8.14.3 Activating/Pausing/Stopping the slide show

<Note>: Images over 8 MB.

Remote control:

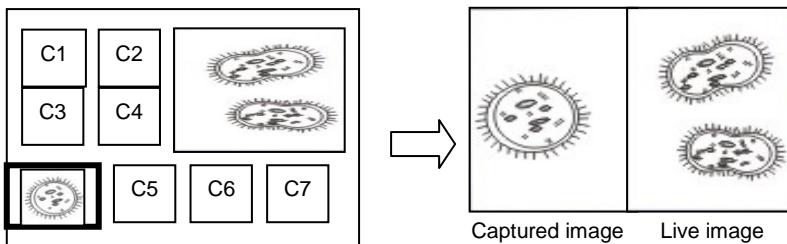
1. Press [SLIDE SHOW] to start playing.
2. Press [ENTER] to pause playing.
3. Press [ENTER] again to continue playing.
4. Press [SLIDE SHOW] again to stop playing.

Control panel

1. Press [MENU] to enter the Setting Menu.
2. Press [▶] or [◀] to select the [Storage] menu.
3. Press [▼] to find [Slide Show].
4. Press [ENTER] to play.
5. Press [ENTER] to pause playing.
6. Press [ENTER] again to continue playing.
7. To stop playing, repeat Steps 1 to 4.

8.15 I would like to compare images (compare live images with captured images (PBP))

This function will compare and contrast a live image with a captured image.



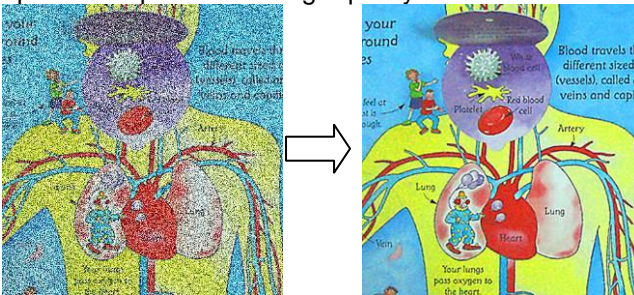
If you use the remote control or the control panel:

1. Press [PBP] to enter the PBP (Picture by Picture) photo selection screen.
2. Press [▲] or [▼] or [◀] or [▶] to select the file to be compared.
3. Press [ENTER] to activate image comparison.
4. Press [ENTER] to switch selected images (captured image/live image).

5. Press [▶] or [◀] to move the images (captured images only) leftward/rightward.
6. Press [ZOOM+/-] to zoom in/out the live image
7. Press [PBP] to back to the captured image screen.
8. Press [MENU] to exit.

8.16 I would like to reduce the image noise (Projector Type)

1. This function enables Document Camera to automatically clear image noise. The noise is especially obvious when Document Camera is connected to a DLP projector. You can set the DLP projector to improve the image quality.
2. If there is special noise when VGA out is connected, please set DLP option to improve the image quality.



3. Press [MENU] on the **remote control** or **control panel** to enter the setting menu.
4. Press [▶] or [◀] to the [Setting] menu.
5. Press [▼] to enter [Projector Type].
6. Press [▶] or [◀] to select [LCD/DLP].
7. Press [MENU] to exit.

8.17 I would like to resume the factory default settings (Factory Reset)

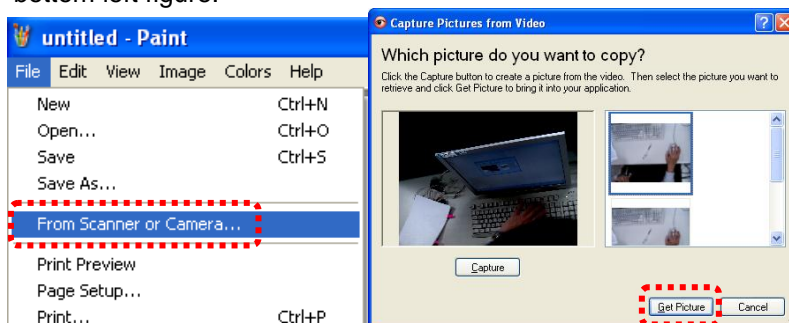
1. Press [MENU] on the **remote control** or **control panel** to enter the Setting Menu.
2. Press [▶] or [◀] to access the [Advanced] menu.
3. Press [▼] to select [Factory Reset].
4. Press [▶] or [◀] to select [Yes].
5. Press [Enter] to activate.

8.18 Computer-related functions

Ensure that the USB cable is connected and the drivers are installed before using the computer-related functions. Refer to [Chapter 4 Installation and Connections](#) in this user manual.

8.18.1 I would like to insert a photo in MS-Paint

1. Click [File/From Scanner or Camera] in MS-Paint as shown in the bottom left figure.

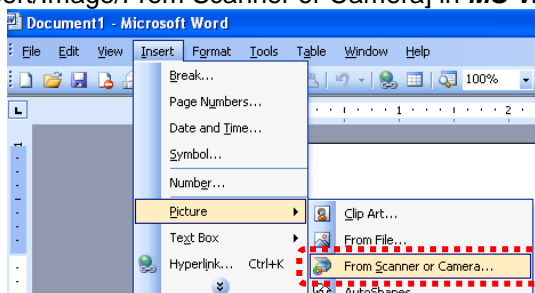


2. Click [Get Picture] will capture the photos of live images and insert the files in use shown as top right figure.

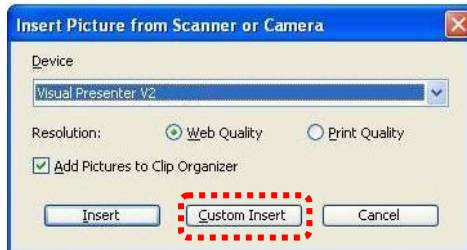
<Remark>: Support **Windows XP** Operation System only.

8.18.2 I would like to insert a photo in *MS-Word*

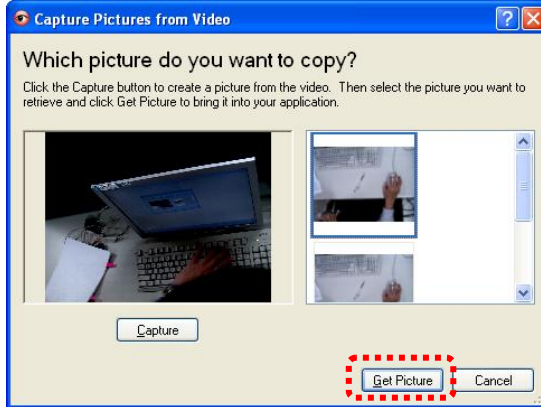
1. Click [Insert/Image/From Scanner or Camera] in **MS-Word**.



2. Select [Visual Presenter V2] and click [Custom Insert].

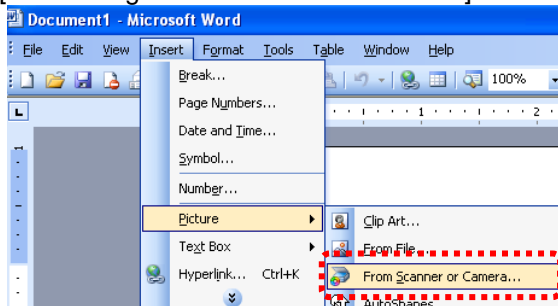


3. Click [Get Picture]. It will capture the photo of live image.

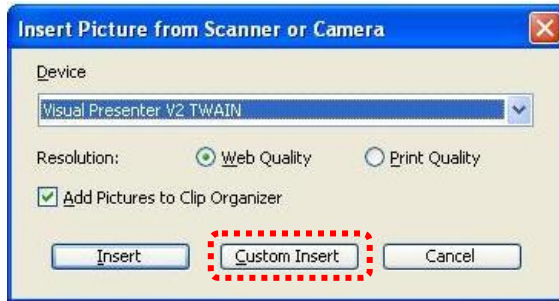


8.18.3 I would like to change the setting of the DC211 and then capture a photo in *MS-Word*

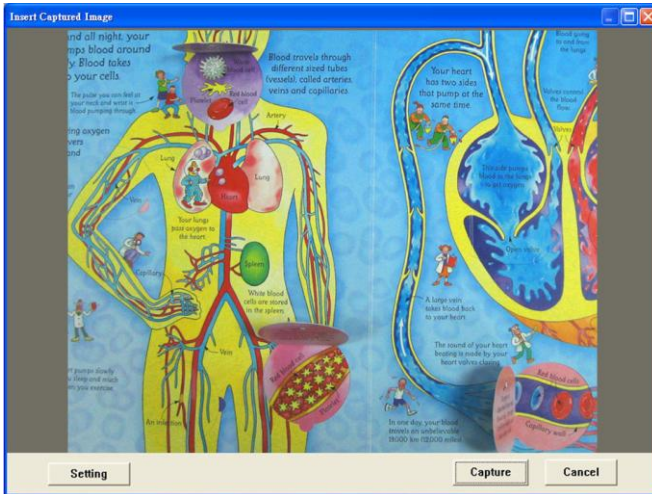
1. Click [Insert/Image/From Scanner or Camera] in *MS-Word*.



2. Select [Visual Presenter V2 TWAIN] and click [Custom Insert].



3. A window showing a live image (see below) will be displayed.



4. Press [Setting].
When the Camera Settings window pops up, the live image can be adjusted. The operating procedure is the same with that of the **remote control** and **control panel** of the device. Refer to [Chapter 7 Control Panel/Remote Control and Setting Menu](#).
5. Press [Capture] to capture images in **MS-Word**.
6. Press [Cancel] to exit.

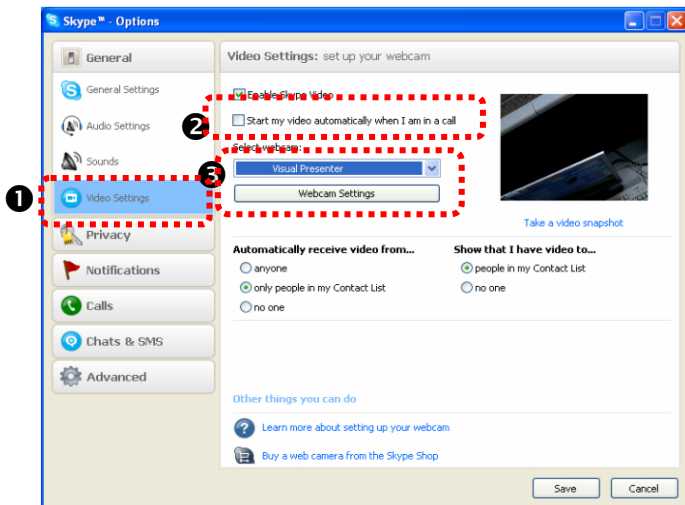
<Remark>: For Windows Office 2003 or later versions, please use the function with OneNote.

8.18.4 I would like to set the DC211 as a webcam for Skype

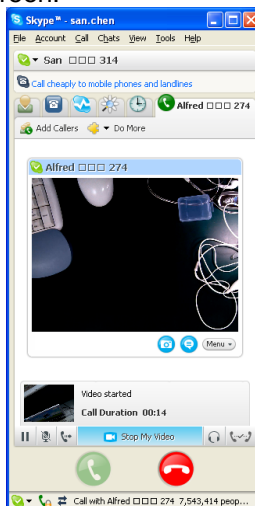
The DC211 can be used as a webcam for teleconferencing software such as **Skype** and **MSN**. With **Skype** as an example, operating instructions are

provided below:

1. Open **Skype** and enter [Tools] > [Options].
2. Select [Video Settings], check [Start my video automatically when I am in a call] and select [Visual Presenter V2] as a webcam, as shown below.



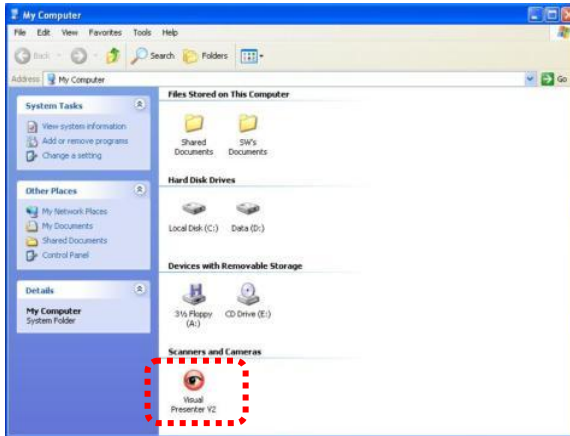
3. Start calling your contact. When both parties are connected, **Skype** will display the video screen.



8.18.5 I would like to set the DC211 as a PC Camera

Open [My Computer] and click [Visual Presenter V2] to open a live

image.



8.18.6 I would like to connect an Interactive Whiteboard (IWB)

To connect an Interactive Whiteboard, go to Lumens website to download the reference guide for a specific brand.

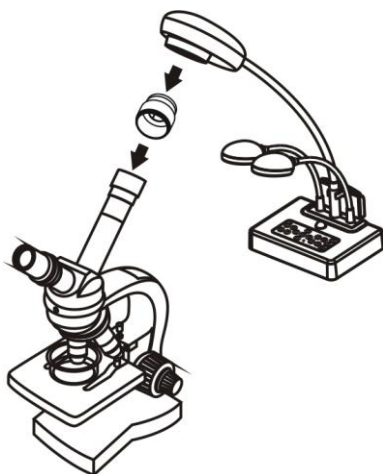
<http://www.lumens.com.tw/goto.htm>

Chapter 9 Connecting to a Microscope

1 Mount the **microscope adaptor** onto the microscope.

<Note>: Microscope adapter accessories are applicable to eyepieces of Ø28mm.

2 The lens of DC211 connects with the **microscope adaptor**.



3 Select the **[Microscope]** mode.

3.1. When using the **control panel** or **remote control**.

3.1.1. Press [MENU] to enter the Setting Menu.

3.1.2. Press [▶] or [◀] to select [Display].

3.1.3. Press [▼] to select [Mode].

3.1.4. Press [▶] or [◀] to select [Microscope].

4 If the image is not clear.

4.1. Please adjust the focus of microscope.

4.2. Press the [FOCUS] button on the DC211 camera head of main unit to activate the auto focus.

Chapter 10 Troubleshooting

This chapter describes problems you may encounter while using DC211. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact our distributors or service center.

No.	Problems	Solutions
1	Boot without power signal	Make sure you have plugged in the power cord.
2	No image output	<ol style="list-style-type: none">1. Check the power outlet.2. Check all cable connections. Refer to Chapter 4 Installation and Connections in this manual.3. Check the signal sources [Source]. Refer to 8.1 I would like to switch image sources in Chapter 8 Descriptions of major functions in this manual.4. Check the settings for the source of the projector. Refer to the projector's user manual.5. Check if DIP Switch is properly set. Refer to Chapter 6 DIP Switch for related settings.
3	Unable to focus	Probably the document is too close. Press [Zoom -] on the remote control or control panel . Or pull away the distance between document and lens, then press [FOCUS]
4	The image is trimmed	Check the Auto Image setting of your projector. Please refer to the user manual of the projector.
5	Visual Presenter V2, Ladibug™ and other applications cannot be used simultaneously	Visual Presenter V2, Ladibug™ and other applications cannot be executed simultaneously. Only one application can be executed at a time. Please close the currently running applications and then execute the application to be used.
6	The lamp does not light up	<p>Please check if the Lamp function is enabled on the OSD Setting Menu.</p> <ol style="list-style-type: none">1. Press [MENU] to enter the Setting Menu.2. Press [▶] or [◀] to select [Setting].3. Press [▼] to select [Lamp].4. Press [▶] or [◀] to select [ON].