



Ladibug™

**Document Camera Image Software
User Manual**

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1. Introduction

After installing the Ladibug™ application, you can use the software to:

- Control the Document Camera.
- Capture and record images.

2. System requirement

Systems supported

- Ubuntu 10.04 ~11.10(32-bit)
- OpenSUSE 11.4 (2.6.37.1-1.2-desktop, 32-bit)
- Fedora 15 (2.6.38.6-26.rc1.fc15.i686.PAE , 32-bit)

System requirement

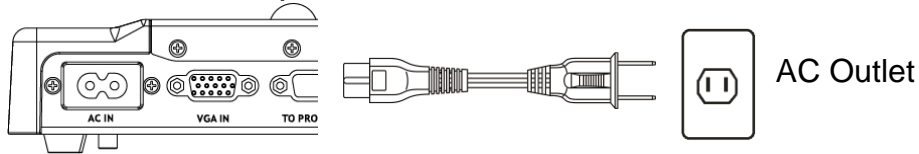
- Min CPU: P4 2.8 GHz and above
- Memory: 512MB
- Resolution: 1024x768
- 100MB Min Disc Space

3. Install Ladibug™



- <Note> In case you have installed other versions of Ladibug, please un-install it and re-install it again.
- <Note> Please disconnect your computer and digital dock before software installation.

3.1. Connect the power cord of the Document Camera.



<Note> Appearance of power cord and AC outlet may vary with countries/regions.

3.2. Please download the **Ladibug™** software after connected to the **Lumens™** web site.

3.3. To ensure complete installation, please make sure the network is available.

3.4. Open the terminal window and start installing by following the instructions below.

3.4.1 *Ubuntu10.04~11.10* applicable

- 3.4.1.1. Unzip "Ladibug_Ubuntu11.10_X.X.X_Setup.zip" to your PC(do not unzip it to the USB disk or other device)
- 3.4.1.2. Right click "*ladibug-1.1.0-Linux-x86-Install*" -> Properties -> Permissions -> check "Allow executing file as program"
- 3.4.1.3. Double click "*ladibug-1.1.0-Linux-x86-Install*" and follow the instructions
- 3.4.1.4. If your login id is not "root", add the login id to group "disk", "audio", "video":

3.4.1.4.1 `sudo gpasswd -a `whoami` video`

3.4.1.4.2 `sudo gpasswd -a `whoami` audio`

3.4.1.4.3 `sudo gpasswd -a `whoami` disk`

3.4.2 *Fedora15* applicable

- 3.4.2.1. If your login id is not "root", add the login id to the "/etc/sudoers" file :

3.4.2.1.1 `su root`

3.4.2.1.2 `chmod 777 /etc/sudoers`

3.4.2.1.3 `open /etc/sudoers by text editor`

3.4.2.1.4 Add the statement :

Your login id `ALL=(ALL) ALL`

3.4.2.1.5 `chmod 0440 /etc/sudoers`

- 3.4.2.2. unzip "Ladibug_OpenSUSE11.4_Fedora15_X.X.X_Setup.zip" to your PC(do not unzip it to the USB disk or other device)

- 3.4.2.3. Right click "*ladibug-1.1.0-Linux-x86-Install*" -> Properties -> Permissions -> check "Allow executing file as program"

- 3.4.2.4. Run "*./ladibug-1.1.0-Linux-x86-Install*" on terminal and follow the instructions

- 3.4.2.5. If your login id is not "root", add the login id to group "disk", "audio", "video":

3.4.2.5.1 `sudo gpasswd -a `whoami` video`

3.4.2.5.2 `sudo gpasswd -a `whoami` audio`

3.4.2.5.3 `sudo gpasswd -a `whoami` disk`

3.4.3 OpenSUSE11.4 applicable

3.4.3.1. Add login id to group “disk”, “audio”, “video”:

3.4.3.1.1 YaST -> Security and Users -> User and Group Management -> Edit -> Details -> Additional Groups

3.4.3.1.2 Select disk, audio and video

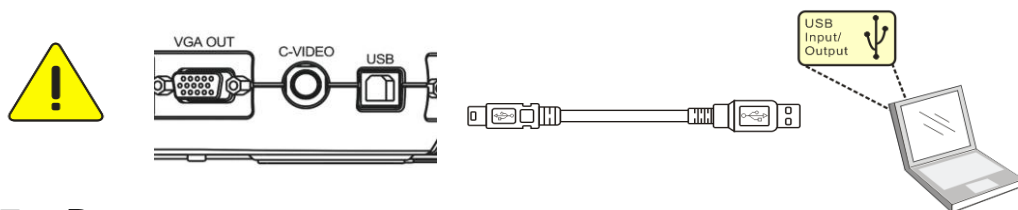
3.4.3.2. unzip “*Ladibug_OpenSUSE11.4_Fedora15_1.0.0_Setup.zip*” to your PC(do not unzip it to the USB disk or other device)

3.4.3.3. Right click “*ladibug-1.1.0-Linux-x86-Install*” -> Properties -> Permissions -> check “*Is executable*”

3.4.3.4. Double click “*ladibug-1.1.0-Linux-x86-Install*” and follow the instructions

3.5. Turn on the Document Camera by pressing the [POWER] button on the unit or the remote control for several seconds.

3.6. Connect USB cable to the Document Camera and your computer. (Please refer to the [Document Camera user manual](#))



3.7. Restart your computer.

4. Start to use Ladibug™

- 4.1. Click the “Application” -> “Other” -> **[Ladibug]** icons in sequence to open the **Ladibug™** program.


















- 4.2. Mouse over **[Ladibug]** icon to select menu functions.



5. Operation

5.1 Main Menu

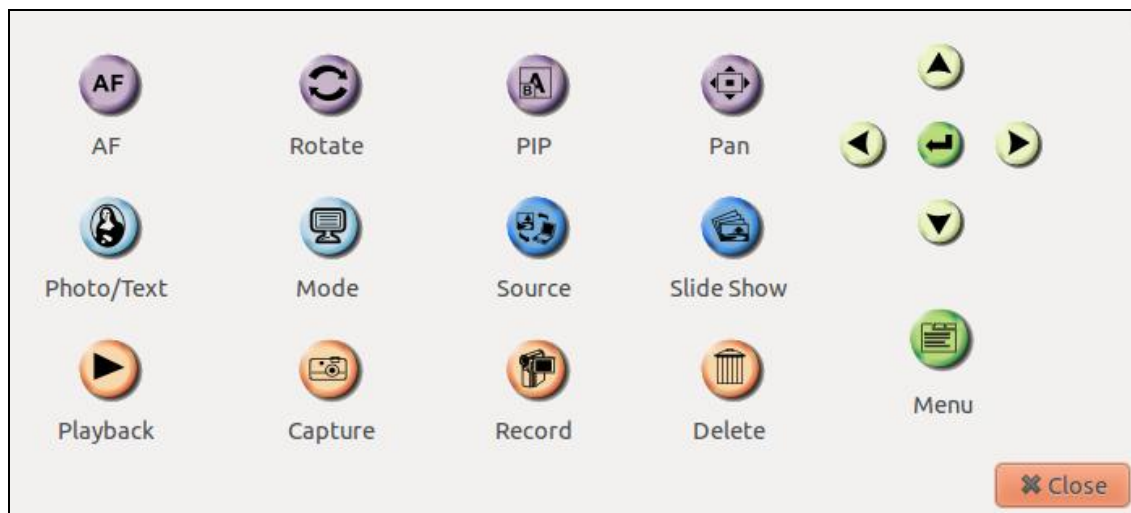


	POWER: Turn the Document Camera on / off		LAMP: Turn the lamp on / off
	AUTO TUNE: Automatically adjust the image for best possible quality.		PREVIEW: Display live images
	OPTIONS: Select video compression method and the audio source. For detailed operation instructions, please refer to 5.3 Options .		BRIGHTNESS: Adjust image brightness
	MAIN: Launch the main functions menu Right click on this icon to show information about the Ladibug™.		ZOOM: Zoom in/out from the image
	CAMERA SETTING: Launch the Camera Setting window to adjust live images. For detailed operation instructions, please refer to 5.2 Camera Settings .		ADVANCE: Launch the advanced functions menu
	FREEZE: Freeze a live image		EXIT: Close Ladibug™.
	TIME LAPSE CAPTURE: Capture images at a pre-set intervals For detailed operation instructions, please refer to 5.4 Time Lapse		RECORD VIDEO: Record videos
	CAPTURE STILL IMAGE: Capture still images		

5.2 Camera Settings

Control the live image via the **Camera Settings** interface. The operating procedure is the same as the **remote control** and **control panel** of the **Document Camera**. Refer to the [Document Camera user manual](#) for more information.

<Note> The display of the button may vary depending on product functions. An inactive button will grey out.



5.3 Options

Factory Reset

☐ Enable Audio Recorder

Audio Source

HDA ATI SB: ALC892 Analog (hw:0,0)

☒ Enable Video Compression

Video Compression Type

MJPG - compressed

Ok Cancel

1. **Factory Reset:** Activate the factory reset.
2. **Video Compress Codec Format:** Set the video format.
<Note> You need to enable the [Enable Video Compress]
3. **Enable Audio Recorder:** Enable the audio record device and set the audio source.

5.4 Time Lapse

The screenshot shows a 'Time Lapse' settings dialog box. It has four numbered red circles with arrows pointing to specific fields: 1 points to the 'File Directory' field (containing '/home/sw/Desktop') and its browse button; 2 points to the 'File Name' field (containing '-YYYY-MM-DD-HH-NN-SS.jpg'); 3 points to the 'Right Now' radio button under 'Select the start time'; 4 points to the 'Time Lapse Settings' section, specifically the 'Capture Interval' field (set to 5) and the 'Capture Time' radio button (selected).

File Directory: /home/sw/Desktop ... ①

File Name: -YYYY-MM-DD-HH-NN-SS.jpg ②

Select the start time

☒ Right Now ③

☐ Start at 2011 12 15 14 13 3

Time Lapse Settings ④

Capture Interval: 5 Seconds

☒ Capture Time: 1 Hours

☐ Capture Frame: 100 Frames

Ok Cancel

1. Select file directory to change the default.
2. Specify a file name.
3. Set the start time.
4. Capture images at a pre-set interval.

6. Descriptions of Functions

6.1 Start the Document Camera

- Click  .


6.2 I would like to display a live image

- Click  to display the live image.

6.3 I would like to optimize the image

- Click  .


6.4 I would like to adjust the brightness

- Click  to show the brightness scroll.
- Move upward to increase brightness, or downward to decrease brightness.


6.5 I would like to turn on/off the lamp

- Click  to turn on/off the lamp.

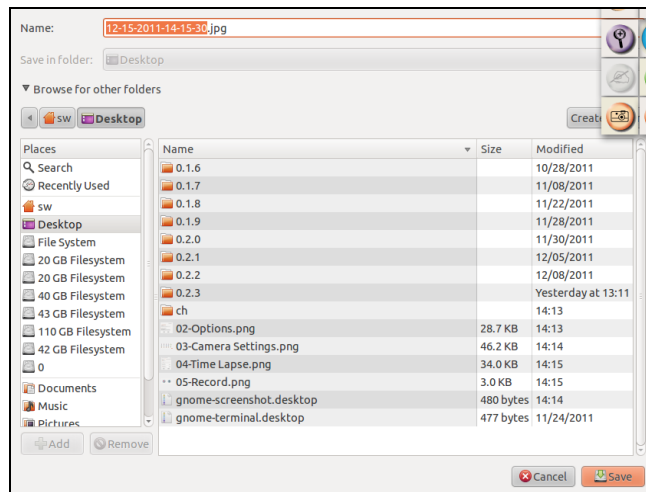
6.6 I would like to zoom in/zoom out

- Click  to display the image scrollbar.
- Scroll up/down to enlarge/reduce the image.
- **Note: The DC120 function can be only used in Freeze mode.**

6.7 I would like to capture images


- <NOTE> You can click  to change time lapse setting, more details please refer to [5.4 Time Lapse](#).

- Click  then a “Save As” window will be displayed.




- Key in the file name then click [Save].

6.8 I would like to freeze the live image

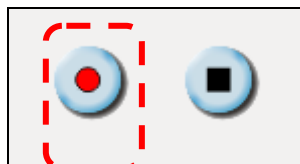
- Click  to freeze the live image of Ladibug™.

6.9 I would like to record video

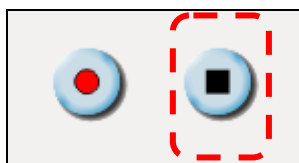
- Click  to open the video tool.

<NOTE> You can click  to change video format and audio source setting, more details please refer to [5.3 Options](#).

- Click [Record] to start recording.



- Click [Stop] to stop recording.



- Click  to close the record tool.

7. Remove the Ladibug™ program

1. Open the Command bar window.
2. Type the following command.
 - ***sudo dpkg – r ladibug***
3. Enter your password.

8. Troubleshooting

8.1 Q: Black screen is displayed in live image after Ladibug™ was re-installed.

Solution:

1. Remove the Ladibug™ then restart the computer.
2. Re-install the Ladibug™ .

8.2 Q: Ladibug™ cannot be activated.

Solution:

In case of incomplete installation, **Ladibug™** may not be activated. Please follow these steps to check and perform a re-installation.

1. Open a terminal window and type “***ladibug***” to check (the components not installed).
2. Activate the “***Synaptic package manager***” and install the components as shown in step 1; or search and download required components from the Internet for installation.