
i3030

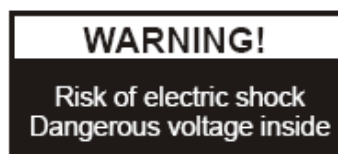
Document Camera



USER MANUAL

Please read this manual carefully before operating the document camera and keep it for reference

PRECAUTIONS



NOTICES: PLEASE READ CAREFULLY BEFORE USE

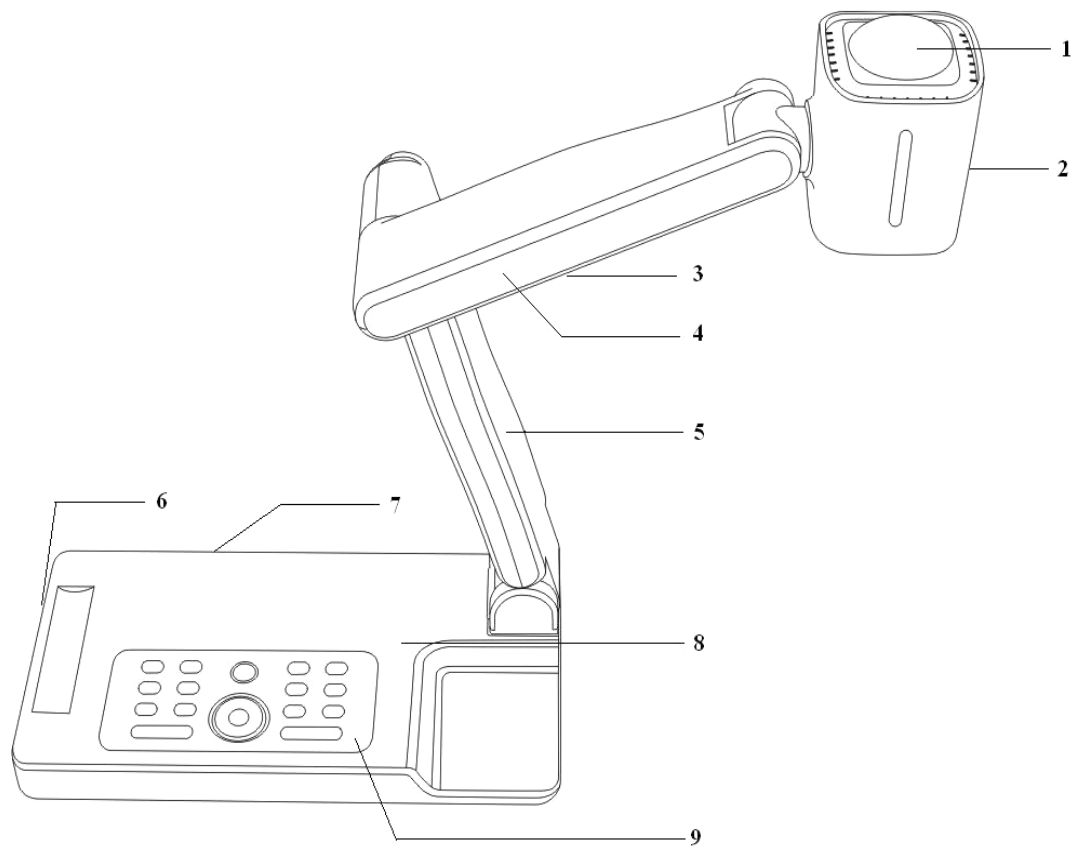
- ⌚ Use the document camera under the rated electric conditions.
- ⌚ Do not place the document camera on any unstable surface. It may fall and cause injuries or damages.
- ⌚ Do not place this device directly under sunlight or near heaters.
- ⌚ Do not place this device near water.
- ⌚ Keep the camera away from acid or alkali gas.
- ⌚ Do not place this document camera in humid, dusty, windy or vibrant locations.
- ⌚ The recommended operating environment is:
 - Temperature: 0°C--45°C(32°F-113°F)
 - Humidity: less than 75%
- ⌚ Always unplug BEFORE cleaning the device. Use a damp soft-cloth for cleaning. Do not use volatile solvent.
- ⌚ When this equipment functions abnormally, such as smoke, smell, noise, immediately unplug and call for professional assistance.
- ⌚ Unplug the document camera or shut off the power when not in use.

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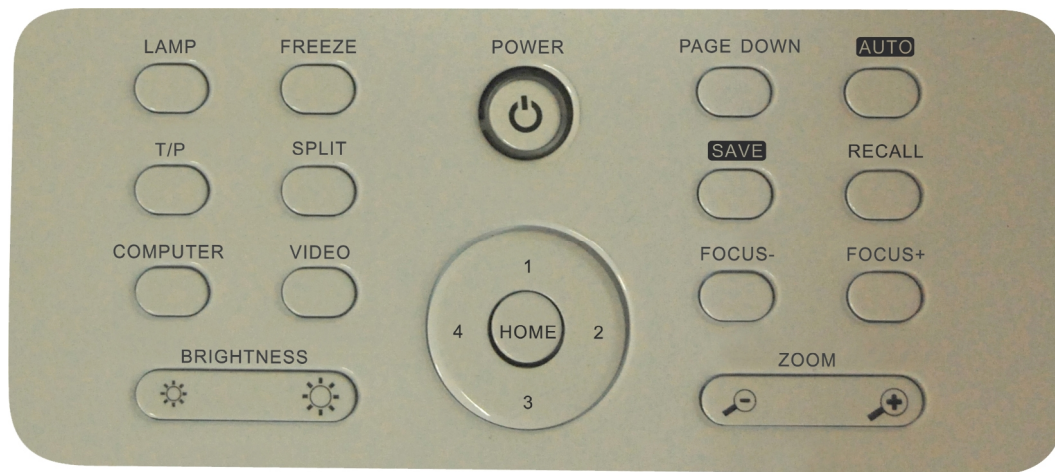
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1. PARTS IDENTIFICATION



1. **Remote control IR receiver**
2. **Camera**
3. **LED light box**
4. **Upper mechanical arm**
5. **Main mechanical arm**
6. **Side panel**
7. **Back panel**
8. **Base unit**
9. **Control panel**

2. CONTROL PANEL

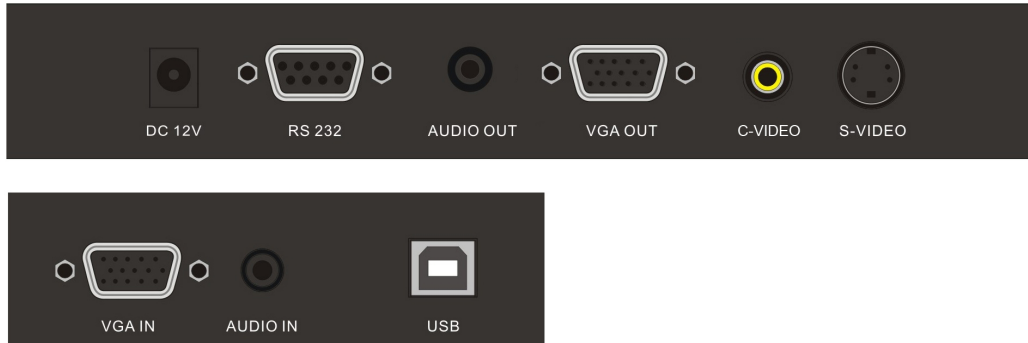


1. **POWER:** Turn on/off the power.
2. **HOME:** Activate VGA output terminal, providing the image from camera.
3. **LAMP:** Turn on/off the LED light.
4. **FREEZE:** Freeze/unfreeze the image.
5. **T/P:** Switch the output image between text mode and picture mode.
6. **SPLIT:** Split screen, enable the comparison between the frozen image and live image.
7. **COMPUTER:** Activate the VGA input.
8. **VIDEO:** Activate the C-VIDEO&S-VIDEO output, providing the image from camera.
9. **BRIGHT+/-:** Image brightness control.
10. **PAGE DOWN:** Saved image page down when image recall mode is enabled.
11. **AUTO:** Carry out auto focus, color adjustment and white balance.
12. **SAVE:** Capture and save the current image.
13. **RECAL:** Image recall mode enabled, display the saved images.
14. **FOCUS+/-:** Adjust focus manually, focus far and focus near.
15. **ZOOM+/-:** Image zoom in and zoom out control.

In image recall mode:

- 1: Display the first image.
- 2: Display the second image.
- 3: Display the third image.
- 4: Display the fourth image.

3. INPUTS AND OUTPUTS



1. **DC 12V:** Power input.
2. **RS 232:** Serial port, to control the document camera by computer via this port.
3. **AUDIO OUT:** Audio output.
4. **VGA OUT:** VGA(RGB) signal output(15 pin D-SUB).
5. **C-VIDEO:** Composite video output.
6. **S-VIDEO:** S-Video output.
7. **VGA IN:** VGA(RGB) signal input(15 pin D-SUB).
8. **AUDIO IN:** Audio input.
9. **USB:** Capture image into a connected computer via provided software

4. REMOTE CONTROL



1. **Save:** Capture the image in display.
2. **Recall:** Image recall mode enabled, display the saved images.
3. **Lamp:** Toggle arm light, back light & no light.
4. **Split:** Split screen, enable the comparison between the frozen image and live image.
5. **Page down:** Saved image page down when image recall mode is enabled.
6. **Mirror:** Output right-and-left, up-and-down mirror image.
7. **Freeze:** Freeze/unfreeze the image.
8. **T/P:** Switch the output image between text mode and picture mode.
9. **Red+/-:** Image chroma control (red).
10. **Blue+/-:** Image chroma control (blue).
11. **SXGA/XGA:** Switch the output signal between XGA and SXGA. (available for the model i3130).
12. **Home:** Activate VGA output terminal, providing the image from camera.
13. **Sharp+/-:** Image sharpness control.

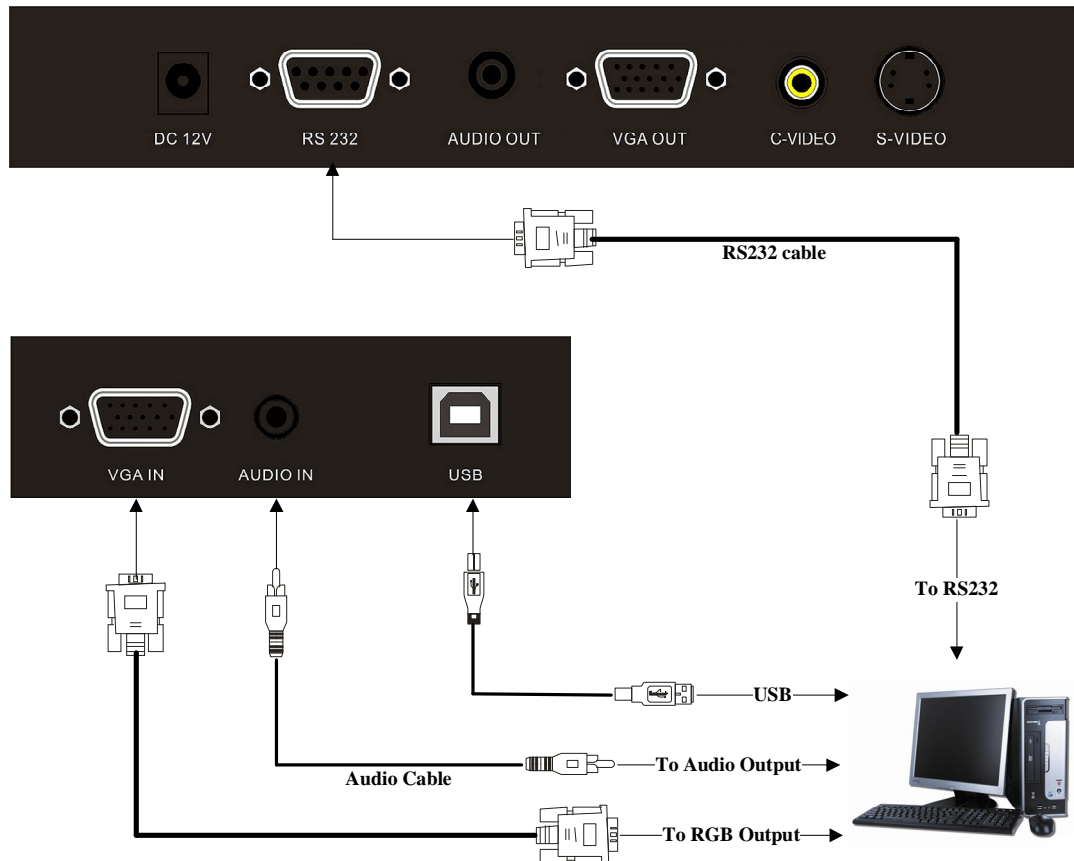
- 14. **Auto:** Carry out auto focus, color adjustment and white balance.
- 15. **Computer:** Activate the VGA input.
- 16. **Video:** Activate the VIDEO&S-VIDEO output, providing the image from camera.
- 17. **Zoom+/-:** Image zoom in and zoom out control.
- 18. **Focus+/-:** Adjust focus manually, focus far and focus near.
- 19. **Bright+/-:** Image brightness control.

In image recall mode:

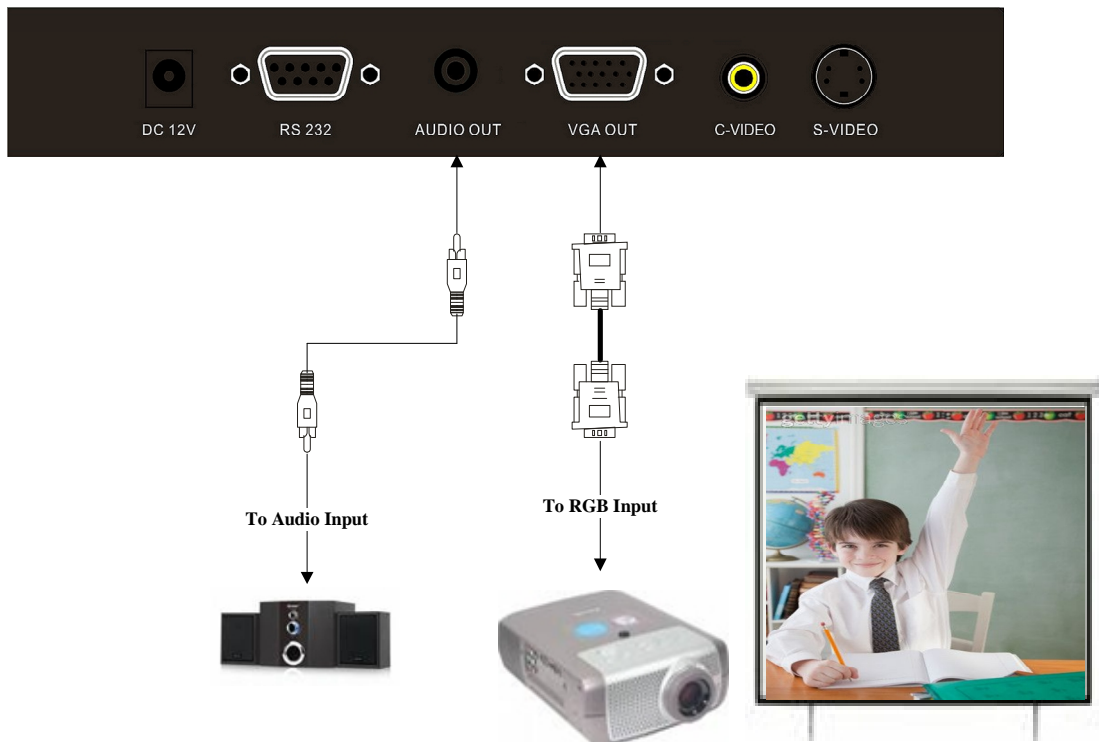
- 1: Display the first image.
- 2: Display the second image.
- 3: Display the third image.
- 4: Display the fourth image.

5. CONNECTIONS

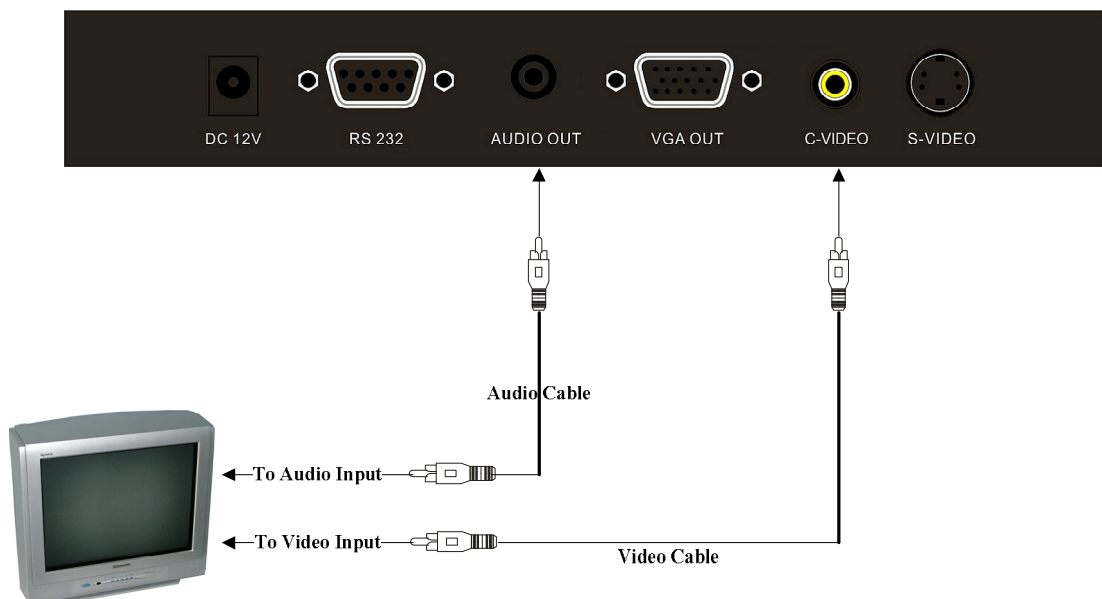
5.1. COMPUTER CONNECTION



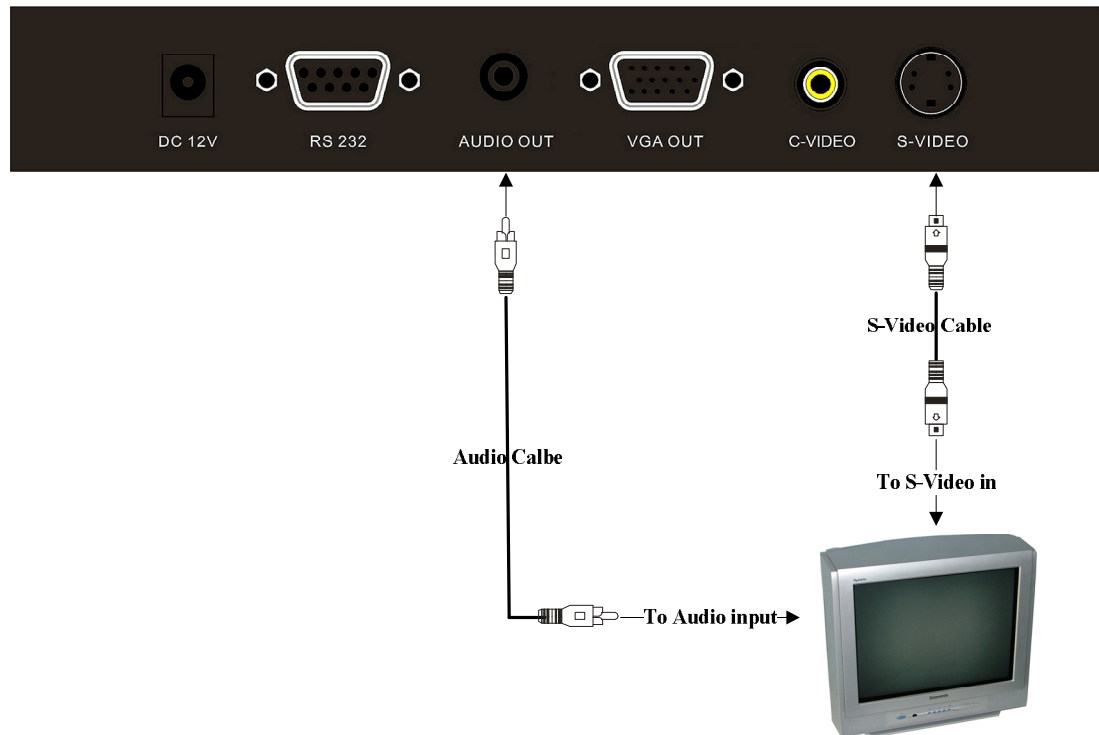
5.2. VGA OUTPUT CONNECTION



5.3. C-VIDEO OUTPUT CONNECTION



5.4. S-VIDEO OUTPUT CONNECTION



6. RS232 SOFTWARE

6.1 COMPUTER REQUIREMENTS

The PC's hardware and software configurations shall not be less than the following requirements:

Operating system: Windows XP

CPU: PIV1.8G

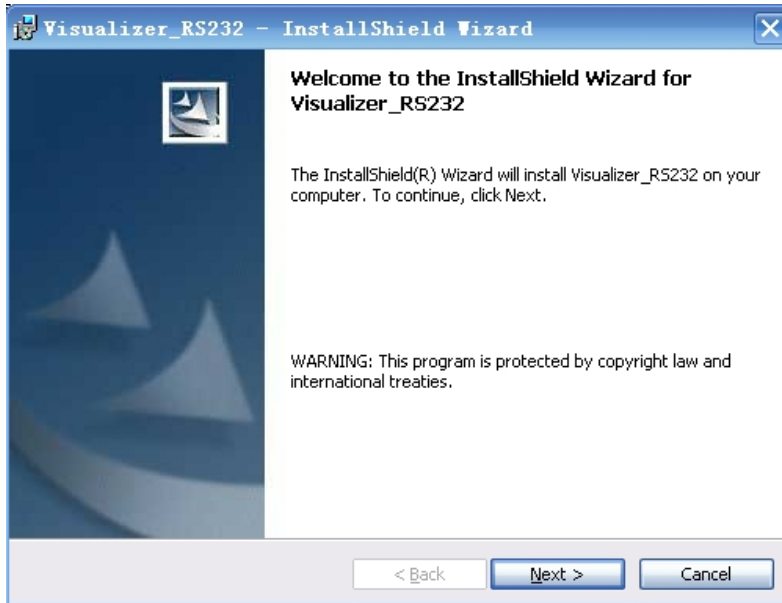
Physical memory: 512M

Video memory: 64M

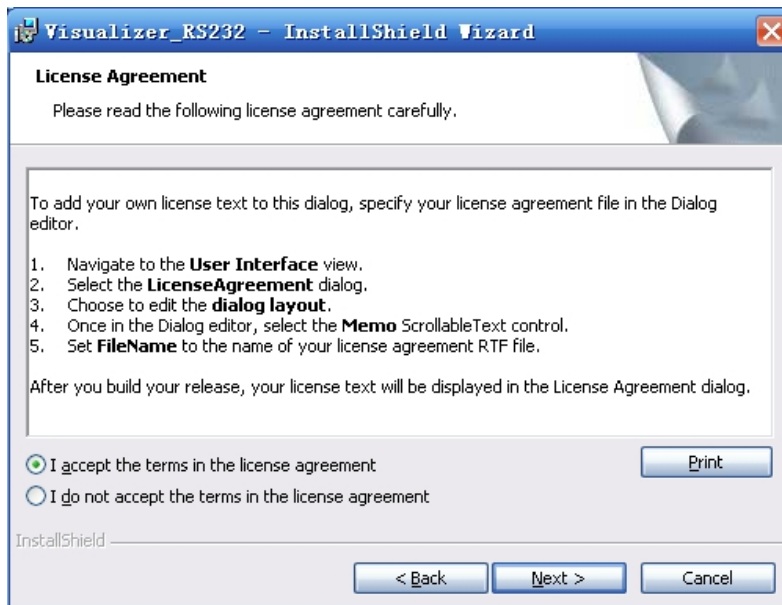
6.2. SOFTWARE INSTALLATION

Double click the RS232 software that in provided CD to run the install shield wizard.

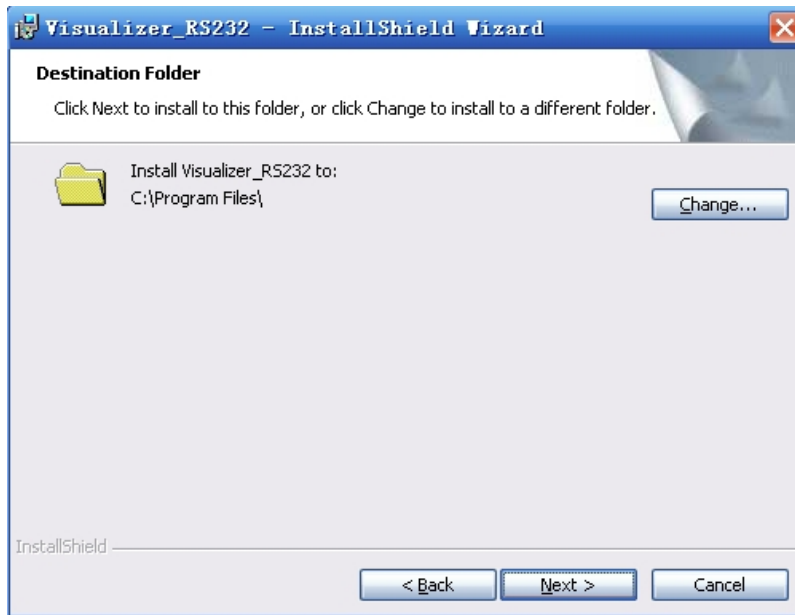
Then you will see the software setup window:



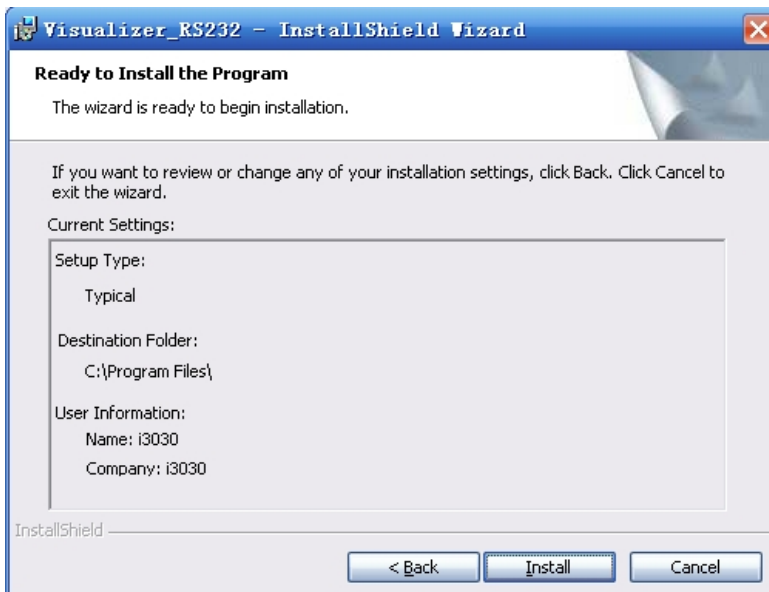
Read terms, select "I accept the terms in the license agreement" Click Next:



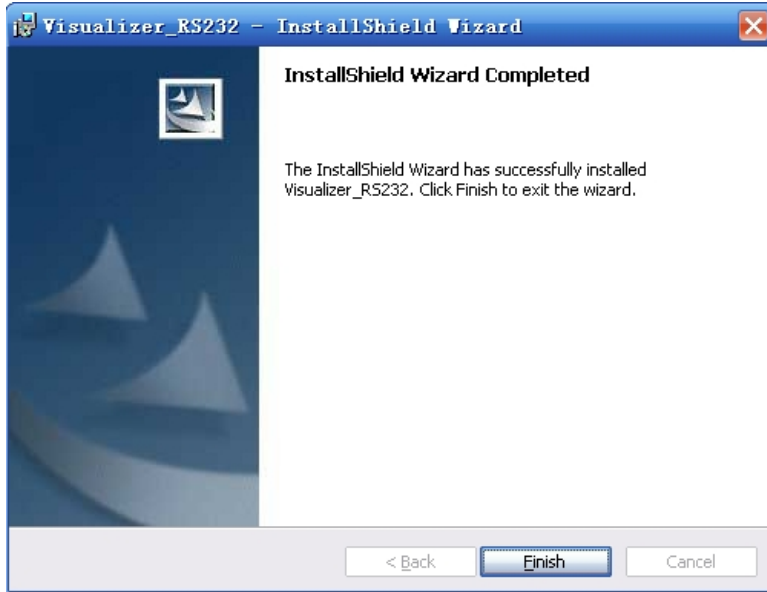
Click Change to change the installation directory if needed, then click Next:



Click *Install* to install the software to the computer:




Click *Finish*, the software installation is complete:



6.3 SOFTWARE START AND SETTING

Connect the computer and the i3030 with a RS232 cable, turn on the power of i3030, then double

click  or click *start->All Programs->Visualizer_RS232-> Visualizer_RS232.exe* to run the


RS232 software, you will see the Icon  on the task bar and the control interface on the top right of the screen:



 : Zoom+


 : Zoom-

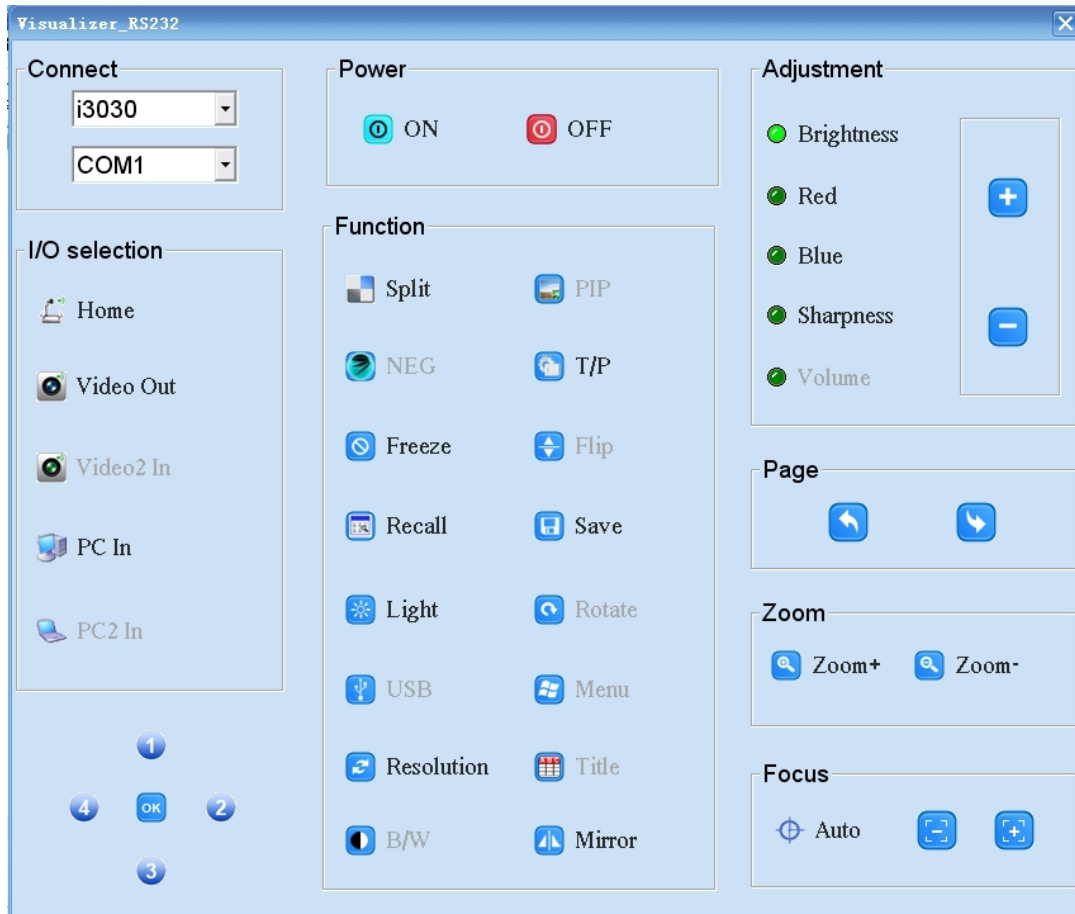
 : Auto

 : Display all functions

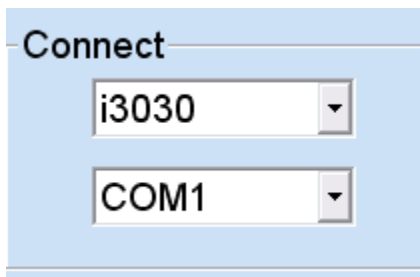
 : Minimize

 : Close

Click , you will see the following control panel.



Set the software properly:



: Select corresponding model number.




















: Select the right COM port.














Note:

** If the selected model does not have certain functions, the corresponding buttons in the software interface are displayed in light gray and are not clickable.*

** All models require 15 seconds start-up time to start the software.*

6.4. BUTTON INSTRUCTION

Button	Function
 Power On	Power on the unit
 Power Off	Standby
 Home	Switch to visualize mode
 Video Out	Video output
 PC In	PC input
 Freeze	Image freeze
 Light	Toggle between arm light and no light
 Brightness+	Increase the brightness
 Brightness-	Decrease the brightness
 Focus+	Focus far
 Focus-	Focus near
 Zoom+	Zoom in
 Zoom-	Zoom out
 Page+	Page up
 Page-	Page down
 Red+	Increase the red hue
 Red-	Decrease the red hue
 Blue+	Increase the blue hue
 Blue-	Decrease the blue hue

 Sharpness+	Increase the sharpness
 Sharpness-	Decrease the sharpness
 Auto	Auto focus, brightness, and color
 Save	Save image
 Recall	Recall saved images
 Split	Split screen
 Mirror	Mirror image
 T/P	Switch between text and image modes
 Resolution	Switch between SXGA, XGA, and SVGA output modes
 1	Recall image #1
 2	Recall image #2
 3	Recall image #3
 4	Recall image #4

7. USB FUNCTION

7.1 COMPUTER REQUIREMENTS

Visualizer_USB Camera software is an application that allows user to capture image, preview and record video under the Windows operating systems.

Visualizer_USB Camera software runs on MS Windows XP, Windows 7, and Vista operating systems. The minimal requirements for the computer hardware are:

Operating system: Windows XP

CPU: PIV1.8G

Physical memory: 512M

Video memory: 64M

7.2 PREPARATION FOR INSTALLATION

To install and uninstall, please login in as system administrator, otherwise, the install/uninstall will fail.

Please connect the unit to the PC before starting installation.

Please select the right software to install:

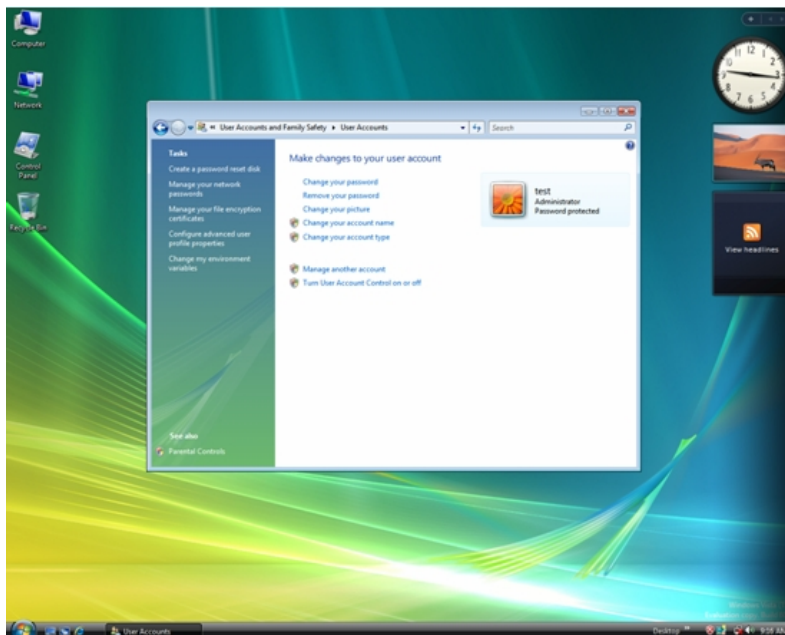
Visualizer_USB(x32): Windows XP, 32bit.

Visualizer_USB(Windows7 x64): Windows 7, 64bit.

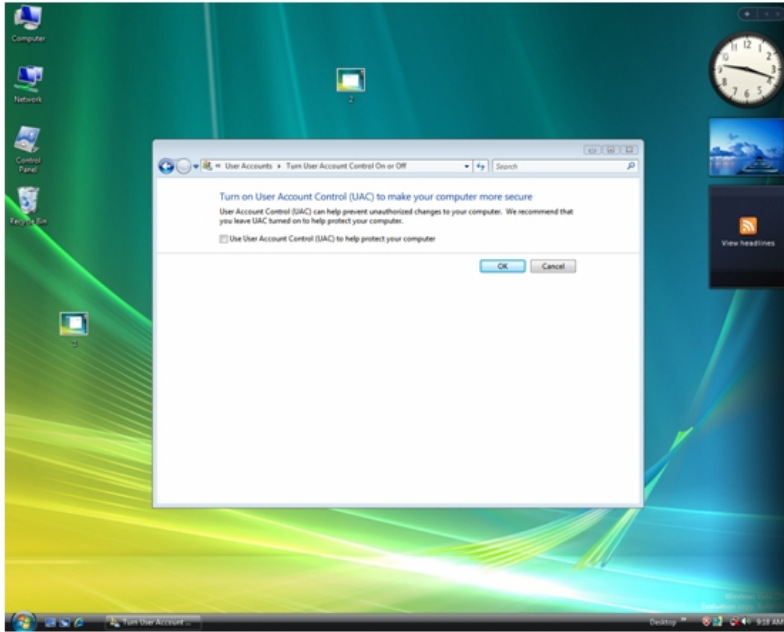
Visualizer_USB(Vista x64): Windows Vista, 64bit.

For Vista system, please do not choose “Use User Account Control (UAC) to help protect your computer”, follow the step to complete the setting:

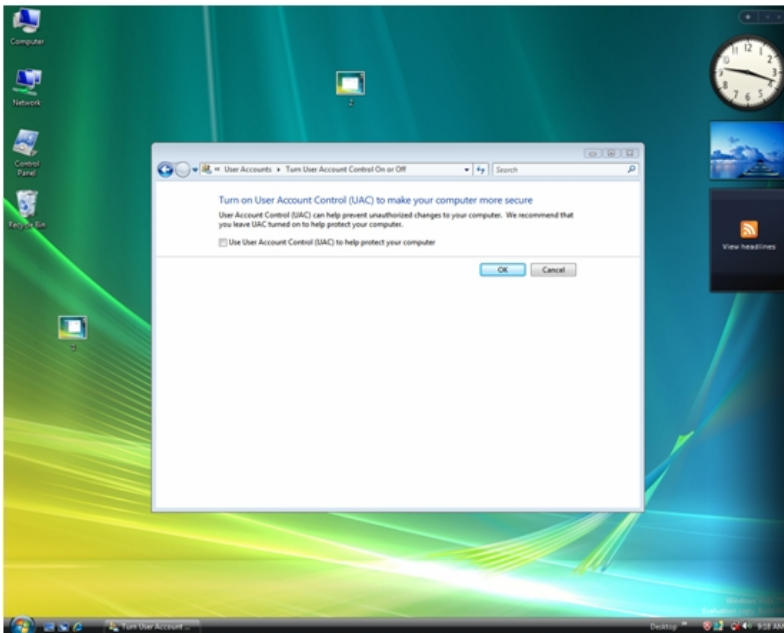
1. Open the control panel, then click User accounts:



2. Click “Turn User Account Control on or off”, we will see:

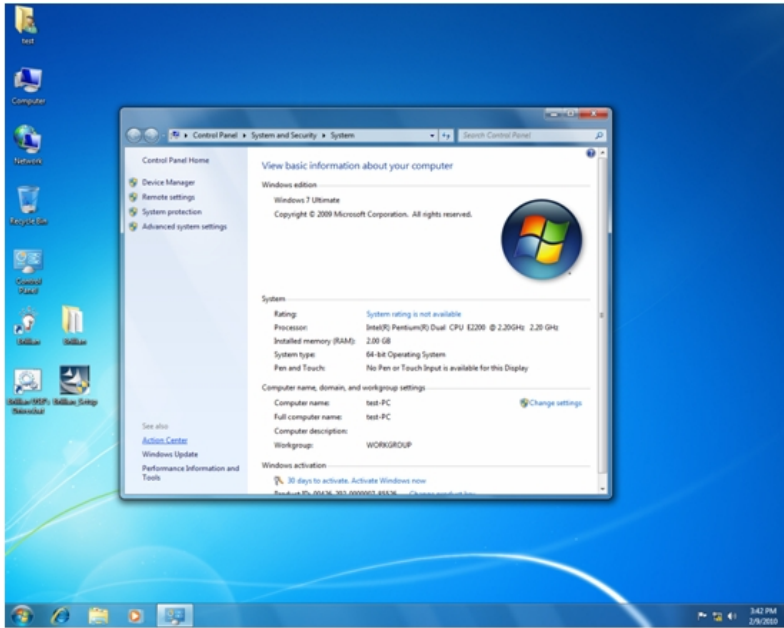


3. Make sure do not tick the option “Use User Account Control (UAC) to help protect your computer”:

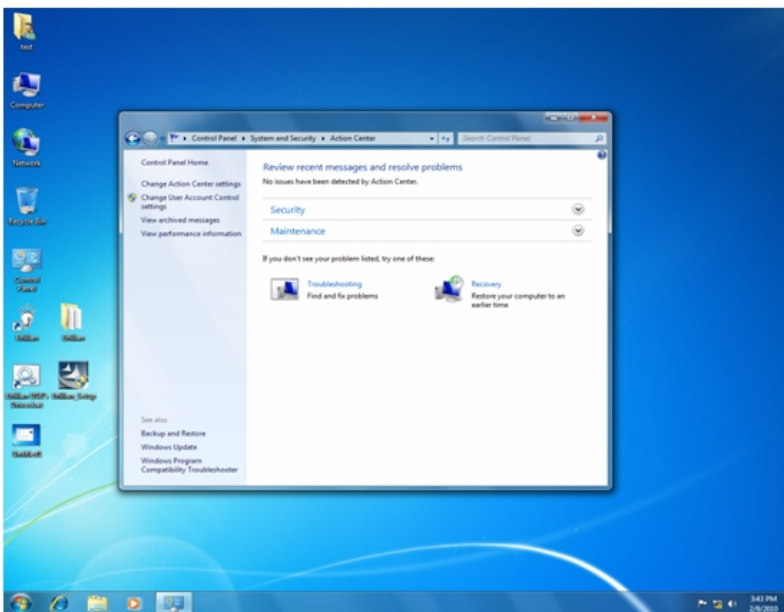


For Windows 7, please change the User account control setting to Never Notify. Follow the step to complete the setting:

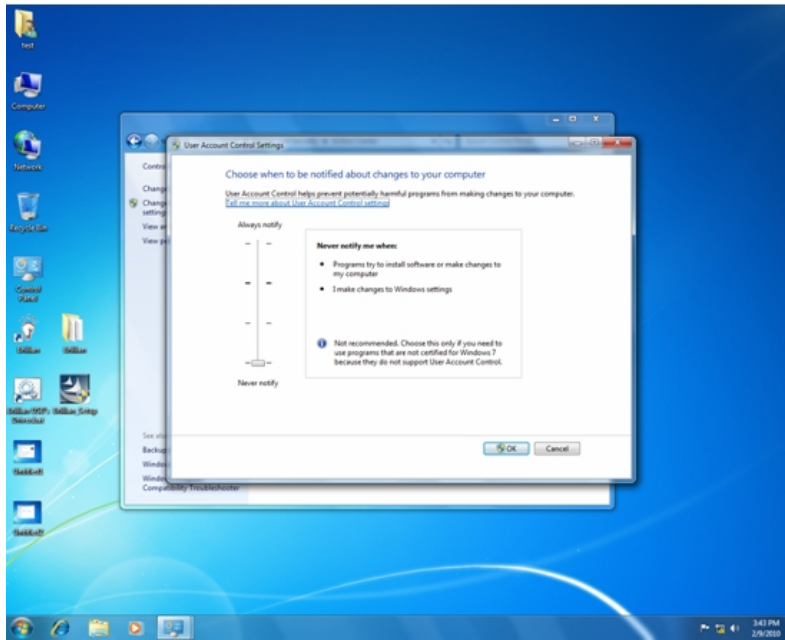
1. Click the right key of the mouse, choose properties:



2. Click Action center:



3. Click Change User Account Control Setting, then choose Never notify.

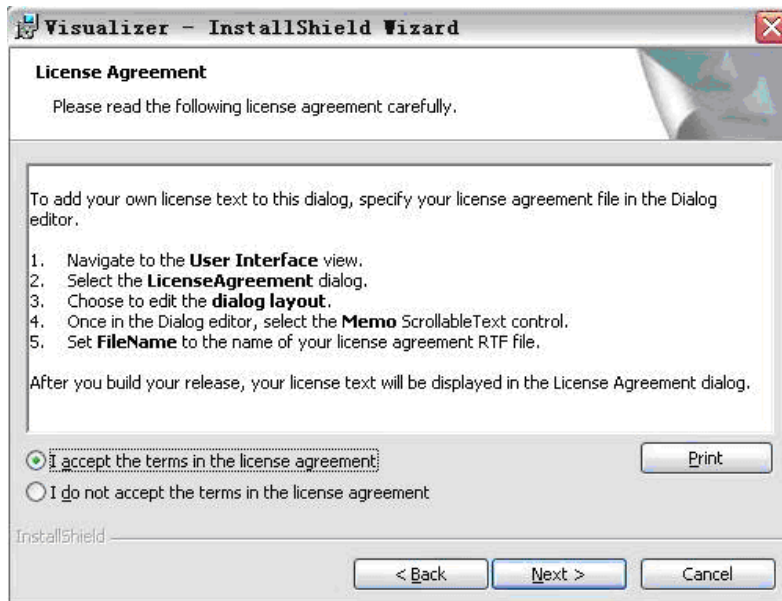


7.3 SOFTWARE INSTALLATION

Click to run the software installation package , the following dialogue appears, click "Next":



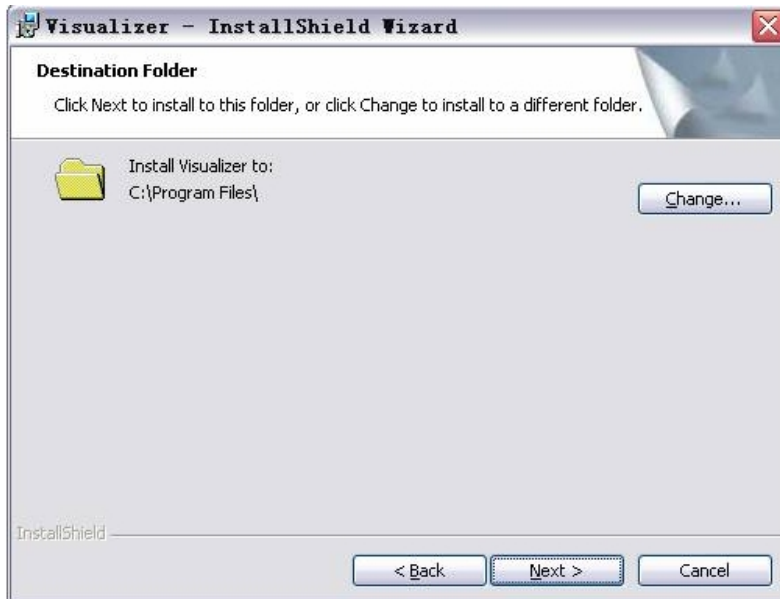
Read the terms, Select "I accept the terms in the license agreement." Click "Next", as the following figure.



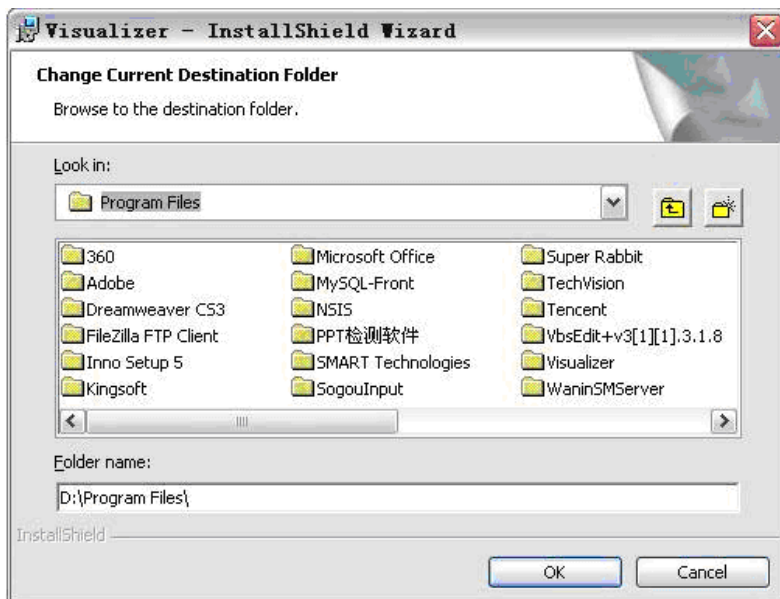
The following dialogue box appears, click "Next":



The default installation directory is Program Files, C: \ Program Files \, you can select a different installation directory, as shown:



Click "Change" to change the directory, as shown:



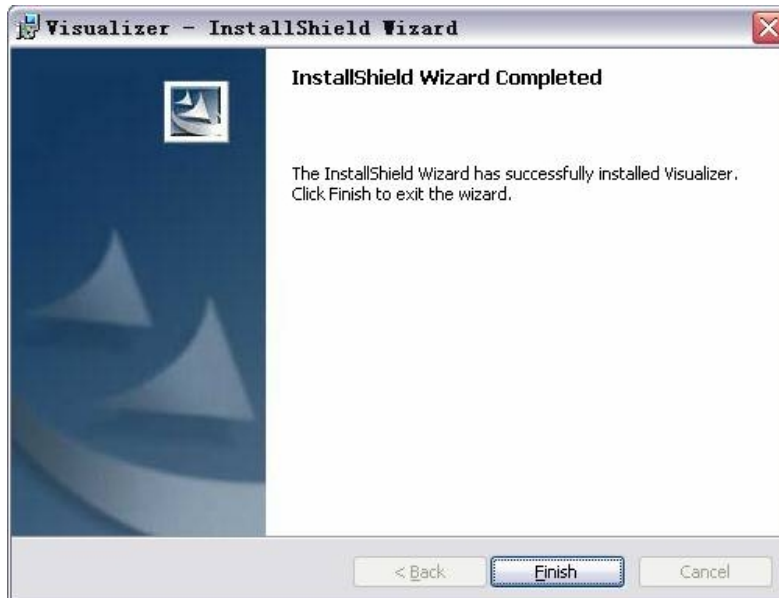
Click "OK", the following figure appears. Click "Next".



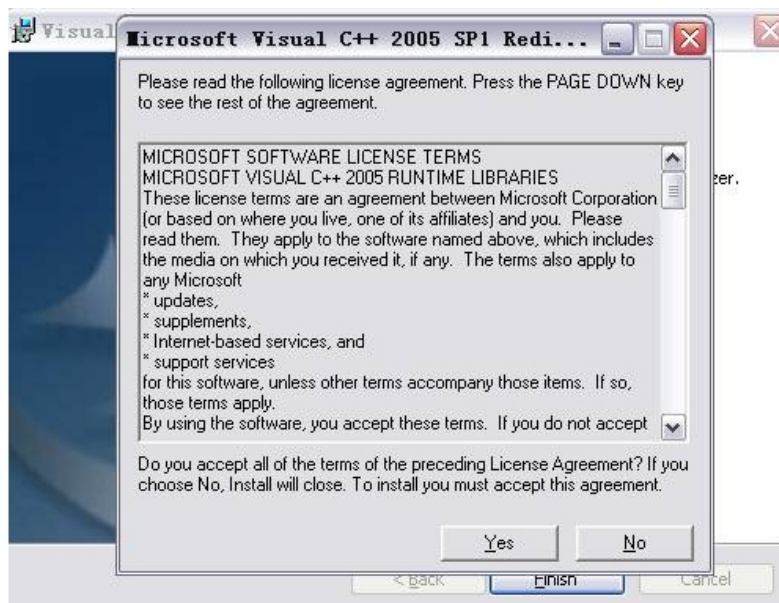
Click "Install" to complete installation, as shown:



Click "Finish" to complete the installation, as shown:




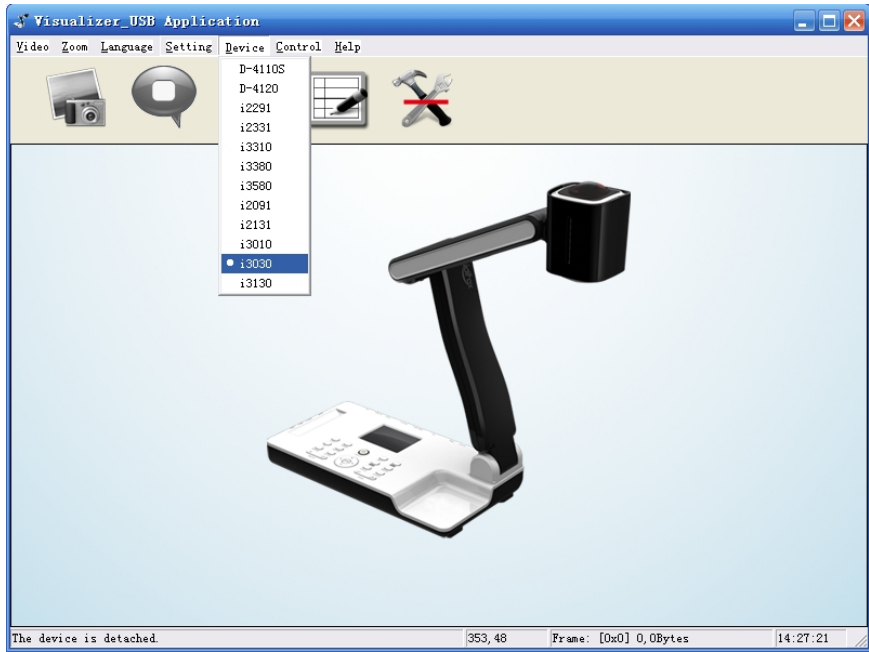
Then you will see the following interface, which is an installation package for 2005 environment. If your PC already has this installed, click "No" to exit, otherwise, click "Yes" to install it.




7.4 SOFTWARE START


Note: The remote and the front panel are inactive while the software is in use.

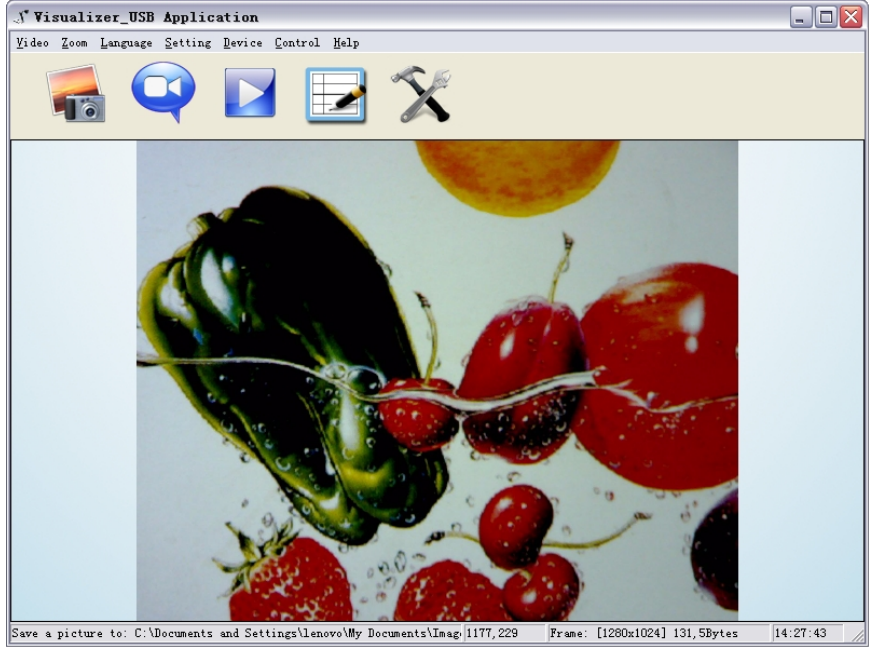
Double click the short cut  on the desktop, then click *Device*, select the right model number, see below:





Then Click  , or select Video->Play you will see the image from the camera.

7.5 IMAGE CAPTURE AND VIDEO RECORDING

Left click  to capture images. The captured images will be automatically saved into the default destination folder. The path and file name are displayed in software status bar on the bottom of the window. Shown below:






Left click  to start recording. The setting button will change to  and does not work.

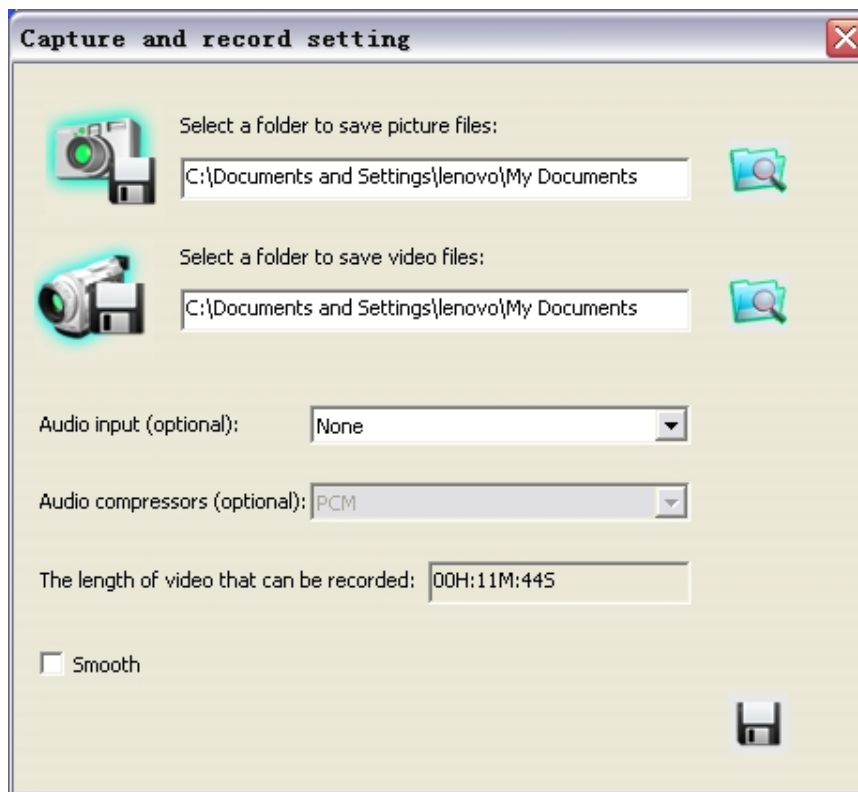


The detailed information is displayed on the software status bar in the bottom of the window. The video is automatically saved in the default folder or pre-set folder.

7.6 SETTING

The captured images and recorded videos will be saved into the folders of Images and Videos respectively, which are created by the system automatically. To set a different path to which the

image/video is to be saved, click  on the left side of the window, a pop up dialog box appears below.

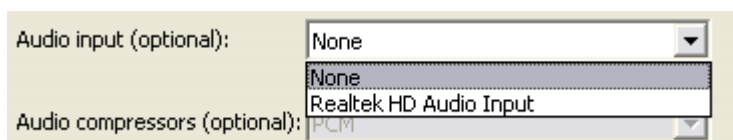


Save the captured images into a different folder


Click the button next to the "select a folder to save picture files" text box to set the path for captured images.

Save the recorded video into a different folder and set up parameters for videos

Click the button next to the "Select a folder to save video files:" text box to set the path for videos. You can also change the video settings. The Audio input (optional) drop down box offers the options of recording video with or without sound. Shown below:



The length of video that can be recorded box displays the longest recording time for videos to be saved in the preset path. Shown below:



The length of video that can be recorded: 00H:11M:35S

Click save to complete setting.

8. FEATURES

LIGHT

The i3030 is the environmentally friendly product, it is RoHS compliant, which means it meets the rigorous European Union's requirements for restriction of the use of certain hazardous substances in electrical and electronic equipment. The lighting box of i3030 adopts eco-friendly, low power consumption and long lasting LED lamps, which is cool to the touch and mercury content free.

ZOOM IN AND ZOOM OUT

9x optical zoom combined with 8x seamless digital zoom, the i3030 enables you to view the finest details of any objects that are impossible to see with your naked eyes. The i3030's advanced optical system features high speed auto focus capability that ensures instant auto focus when you quickly zoom in and out of any object. You can also manually adjust focus to satisfy any special viewing needs by pressing "ZOOM+" or "ZOOM-".

FOCUS ADJUSTMENT

When the Visualizer is turned on the focus automatically adjusts to the stage, it is not necessary to readjust the focus if you are only working with flat materials (text, photos, etc.). Only 3D objects require a focus adjustment. Press the "AUTO" button to auto focus. Press the "FOCUS+", or "FOCUS-" button once to focus manually.

BRIGHTNESS ADJUSTMENT

If the image effect is not satisfactory, you can adjust the brightness to get a better image effect.

Use the “BRIGHT +” or “BRIGHT -” button to adjust the brightness. To increase the brightness, press the “BRIGHT +” button. To decrease it, press the “BRIGHT -” button.

WHITE BALANCE ADJUSTMENT

Each time the lighting condition changes, the user should adjust the white balance of the CMOS. Press the “AUTO” button to adjust the white balance automatically.

TEXT/PICTURE MODE

The Text enhancement feature provides the option to improve the readability of the text by improve the contrast of the text image via pressing the “T/P” button.

IMAGE FREEZE

The freeze function allows you to discretely prepare the next image without interrupting current presentation. Use "FREEZE" to freeze and unfreeze the image.

IMAGE MIRROR

The mirror function gives you a different perspective of an object.

SPLIT SCREEN

The split screen offers the capability of comparing two images or comparing two different views of one object side by side.

IMAGE SAVE

The i3030 offers the opportunity of storing 12 images on board. You can recall them by just pressing one of the numerical buttons on the front panel or remote control.

IMAGE RECALL

By pressing the “Recall” button, all saved images is displayed in the thumbnail index mode for easy selection.

MULTIPLE INPUTS AND OUTPUTS

The VGA input allows a computer to be connected, inputting the computer signal. I3030 also implements C-Video and S-Video connector, which can output the CMOS image.

USB 2.0 PORT

The USB port can be used to store still images from the visualizer in a computer. No additional computer hardware is required. In this way, the visualizer can be used as a 3-D scanner for your computer. Connect the Visualizer to your computer with the supplied USB cable. The Visualizer Software is available on the supplied CD-ROM.

USB IMAGE CAPTURE AND VIDEO RECORDING

The i3030 is the document camera equipped with a USB 2.0 image capture and video recording system. Simply connect the i3030 to a computer, with the software and driver we provided, you can easily preview, capture and save any images on your PC and Mac.

RS232 CONTROL

The RS232 terminal allows you to integrate the i3030 into any sophisticated central control system. RS232 also enable you to control the i3030 via computer.

9. SPECIFICATION

Model	i3030
Sensor	1/3" CMOS
Pixels	2 Megapixel
Zoom	9x optical, 8x digital
Frame rate	15
Shooting area	Max: 13.5"x10.6", Min: 0.1"x0.1"
Focus	Auto/manual
Output resolution	XGA
Resolution(Horizontal)	≥650 TV lines
White balance	Auto/manual
Color adjustment	Yes
Brightness adjustment	Yes
Image capture	Yes,12images
Video recording	Yes(via USB)
Image mirror	Yes
Image split	Yes
Image freeze	Yes
Text mode	Yes
OSD	Yes
Inputs	VGA ×1, AUDIO ×1
Outputs	VGA ×1, C-VIDEO ×1, S-VIDEO ×1, AUDIO ×1
USB2.0	Slave×1(USB camera)
RS232	x1(computer controllable)
Remote control	Yes(360°controllable)
Light source	LED light box
Kensington lock	Yes
Operating temperature	32°F ~113°F
Dimensions	Folded:12.6"×6.6"×3.7", Setup:19.7"×6.6"×19.3"
Power supply	12V DC power adapter
Weight(net)	5.5lbs/2.5kg

10. TROUBLE-SHOOTING:

Symptoms	Possible causes/counter-measures
No image	<ol style="list-style-type: none"> 1. Power cord is not properly connected. 2. Cables are not properly connected. 3. Power switch is not turned on. 4. The built-in fuse is broken: Change fuse. 5. Change the output resolution.
Image bending	<ol style="list-style-type: none"> 1. Camera not in right position, adjust the camera. 2. Distortion of LCD display, press the “Auto adjust” of the LCD.
Out of focus or blurring image	<ol style="list-style-type: none"> 1. The object is too close to the lens. 2. Focus is on the top point of zoom, press ZOOM-. 3. Auto-focus is not on: press AUTO again. 4. Fog on the lens in damp climate. It will disappear gradually when the equipment warms up.

If the problem still remains after checking the above, consult your dealer or authorized service personally.

11. PACKING LIST

Item	Quantity
Power cord	1
Power adaptor(12V/2A)	1
VGA cable	1
Switch cable(RCA to mini)	1
USB cable(2.0)	1
Remote control	1
User manual(CD)	1