3080

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 electrical conditions.
- Do not place the document camera on any unstable surface. It may fall and cause injures 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: 0ºC--45ºC (32ºF-114ºF)
  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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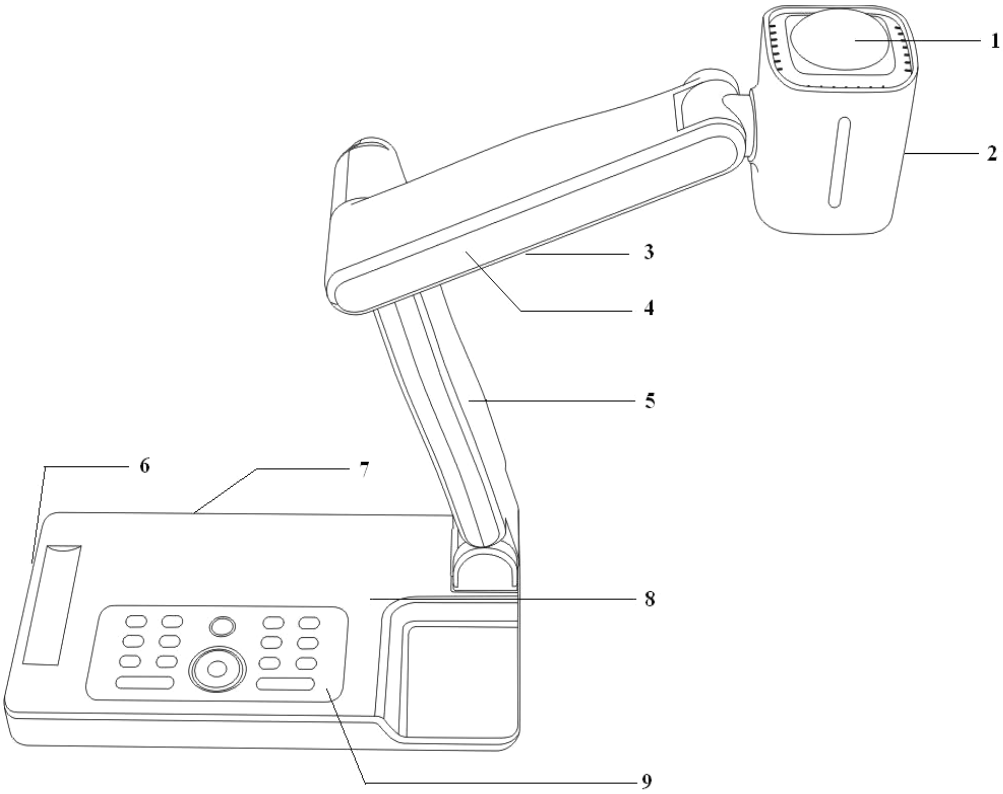
1. PARTS IDENTIFICATION



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**: Display the i-3080's image via the VGA output.
3. **LAMP**: Turn on/off the LED light.
4. **FREEZE**: Freeze/unfreeze the image.
5. **T/P**: Switch the output image between the text mode and the picture mode.
6. **SPLIT**: Split screen, enable the comparison between the frozen image and the live image.
7. **COMPUTER**: Display the connected computer image.
8. **VIDEO**: Display the i-3080's image via the C-Video or S-Video output.
9. **BRIGHT+/-**: Image brightness control.
10. **PAGE DOWN**: Saved image page down when the 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 the provided software.

4. REMOTE CONTROL

1. **Save**: Capture the image in display**.**
2. **Recall**: Image recall mode enabled, display the saved images.
3. **Lamp**: Turn on/off the LED light.
4. **Split**: Split screen, enable the comparison between the frozen image and the live image.
5. **Page down**: Saved image page down when the image recall mode is enabled.
6. **Mirror**: Display the vertically reversed image.
7. **Freeze**: Freeze/unfreeze the image.
8. **T/P**: Switch the output image between the text mode and the picture mode.
9. **Red**+/-: Image chroma control (red).
10. **Blue**+/-: Image chroma control (blue).

11. **SXGA/XGA**: Switch the output signal between the XGA and the SXGA resolution.
12. **Home**: Display the image via VGA output.
13. **Sharp+/-**: Image the sharpness control.
14. **Auto**: Carry out auto focus, color adjustment and white balance.
15. **Computer**: Activate the VGA input.
16. **Video**: Display the image via C-Video or S-Video output.
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.

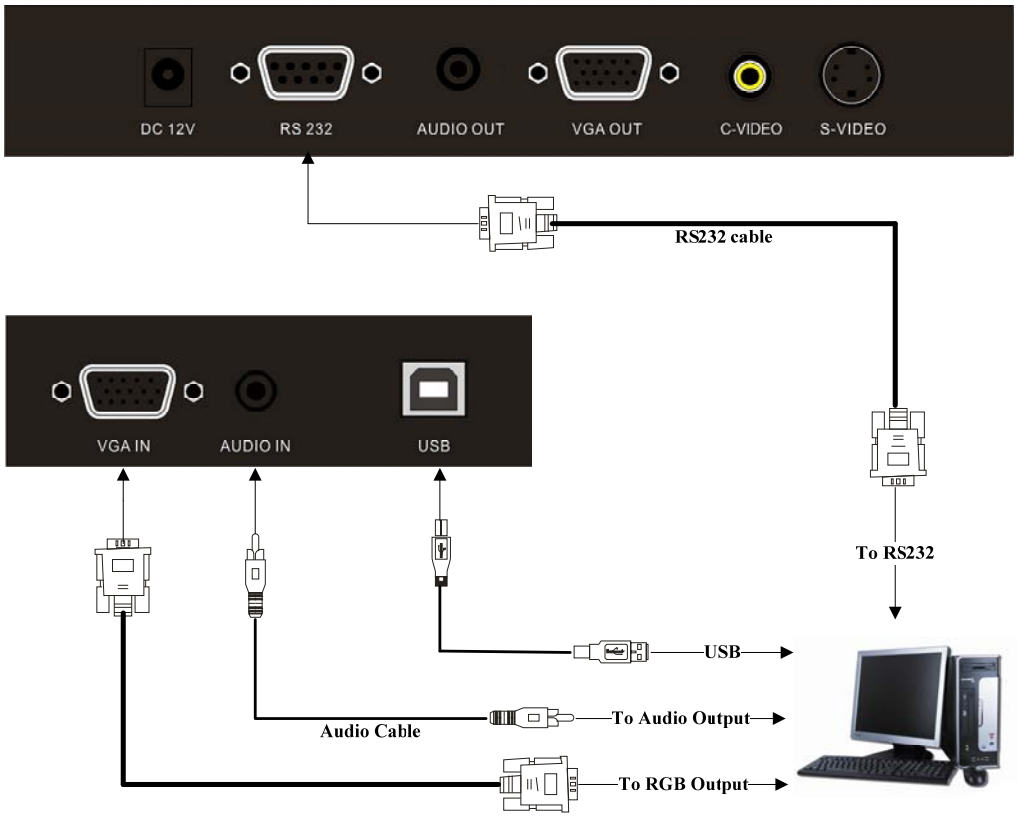
2: Display the second image.

3: Display the third image.

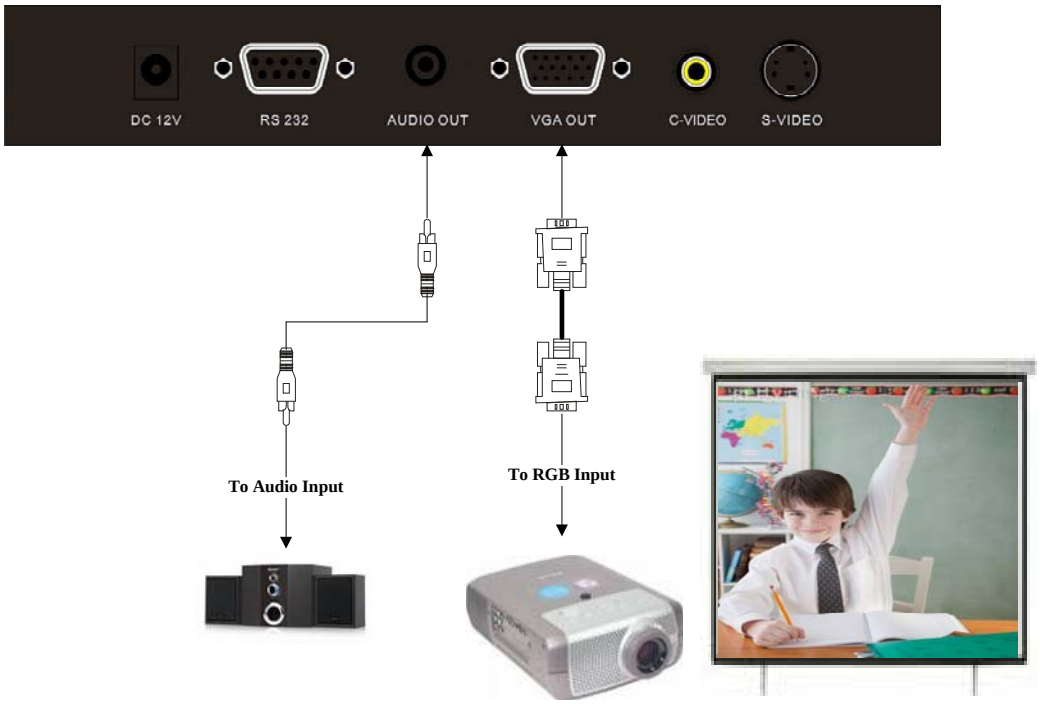
4: Display the fourth image.

5. CONNECTIONS

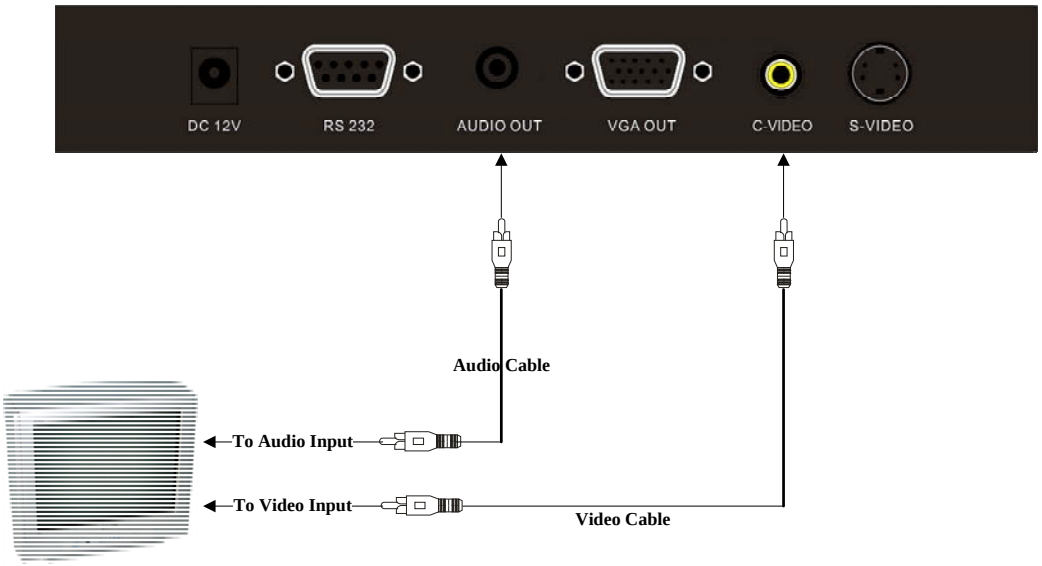
5.1. COMPUTER CONNECTION



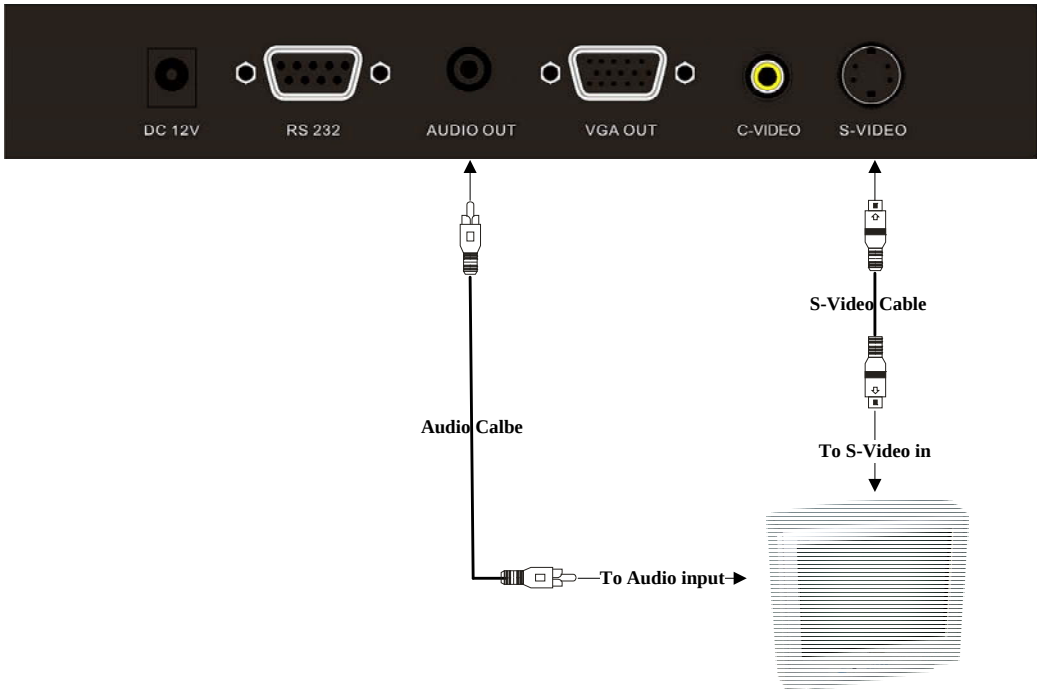
5.2. VGA OUTPUT CONNECTION



5.3. C-VIDEO OUTPUT CONNECTION



5.4. S-VIDEO OUTPUT CONNECTION

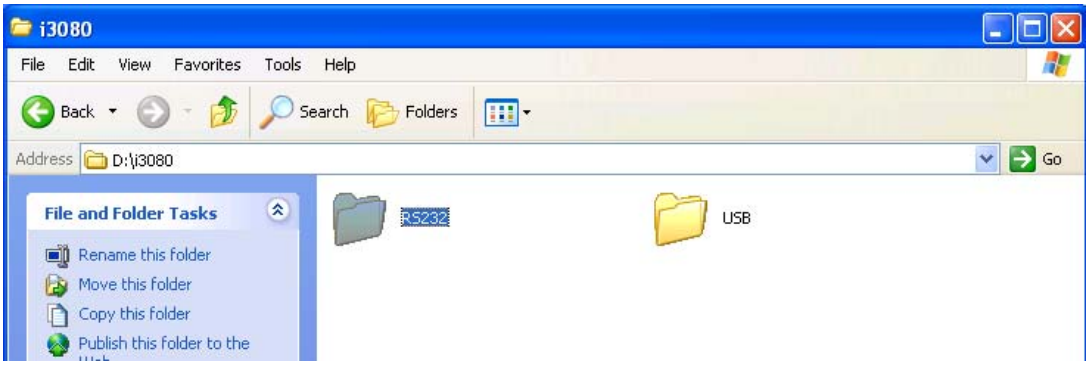


6. COMMUNICATE WITH COMPUTER

6.1. CONTROL VIA RS232

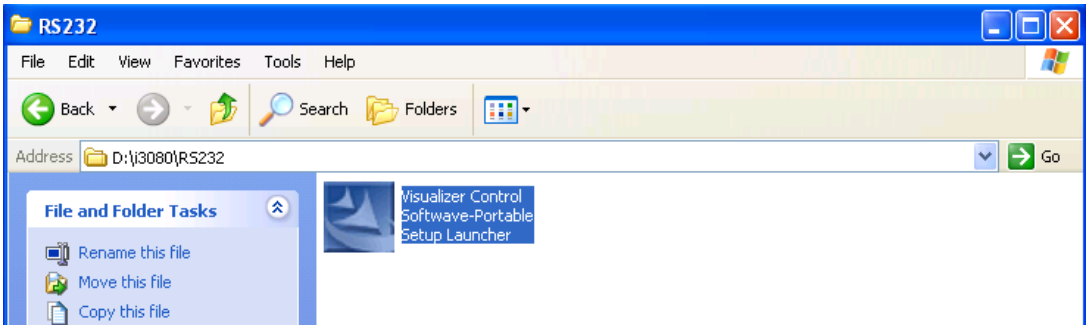
The i3080 can be controlled from a computer via the RS232 interface.

1. Create a folder on the hard drive, name it i-3080. Then copy the RS232 application that is on the provided CD into this folder.

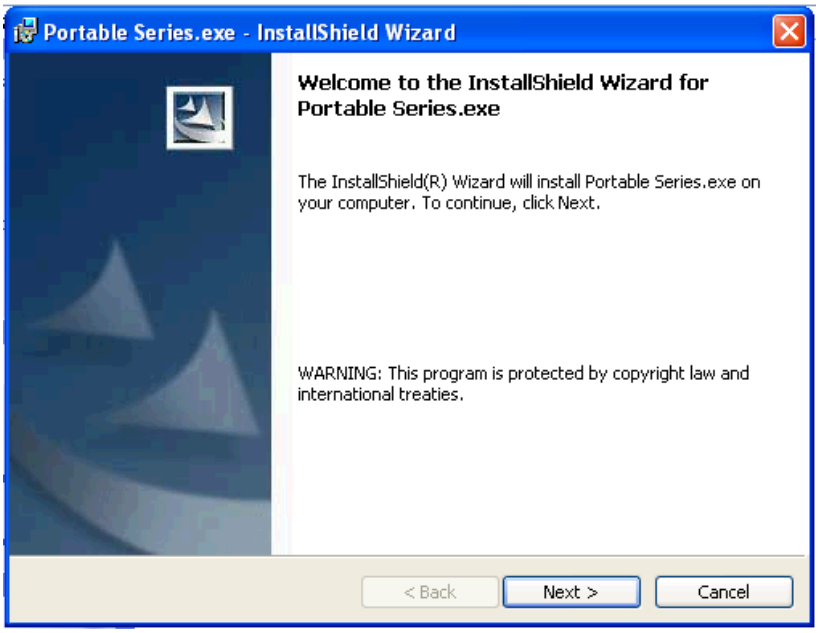


2. Connect the computer and the i-3080 with a RS232 cable, and then turn on the power of i-3080.

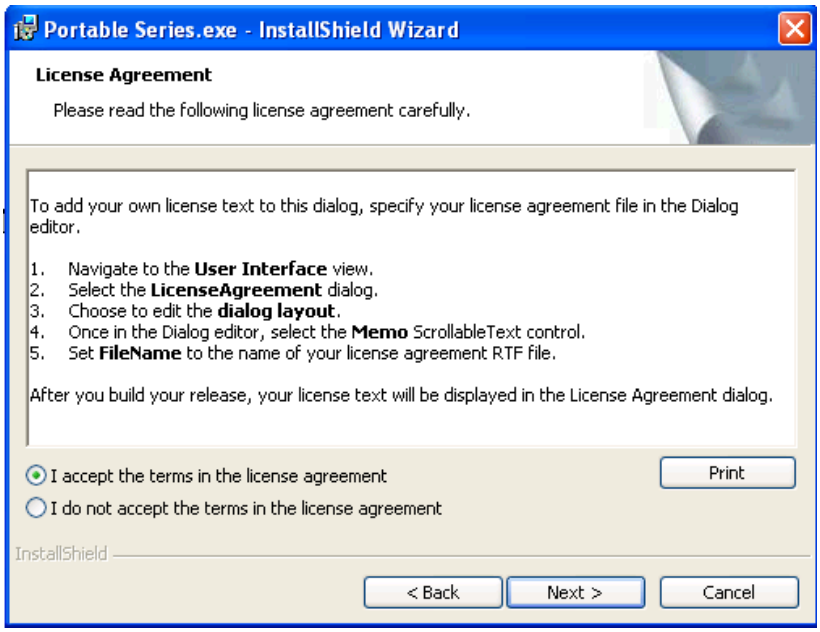
3. Open the RS232 folder and double click the RS232 software to run the install shield wizard.



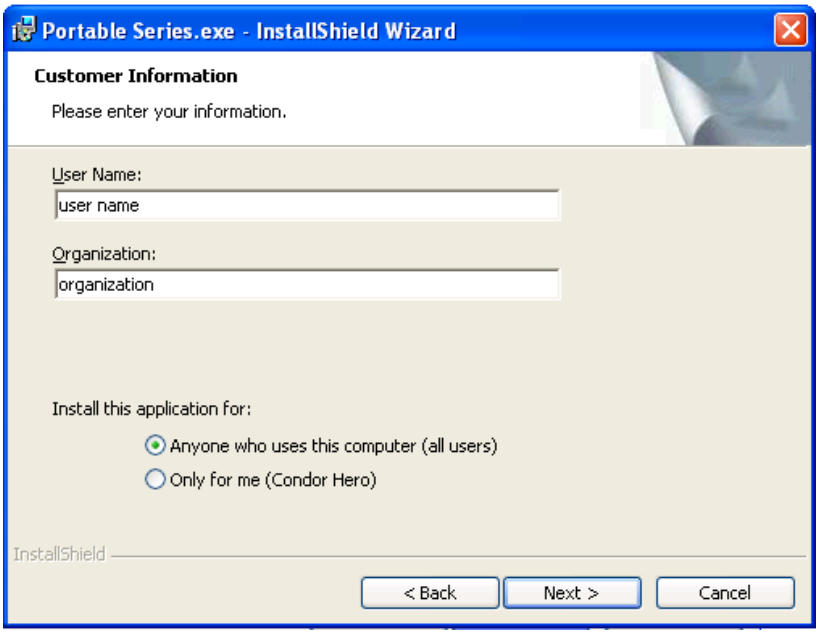
Then you will see the software setup window:



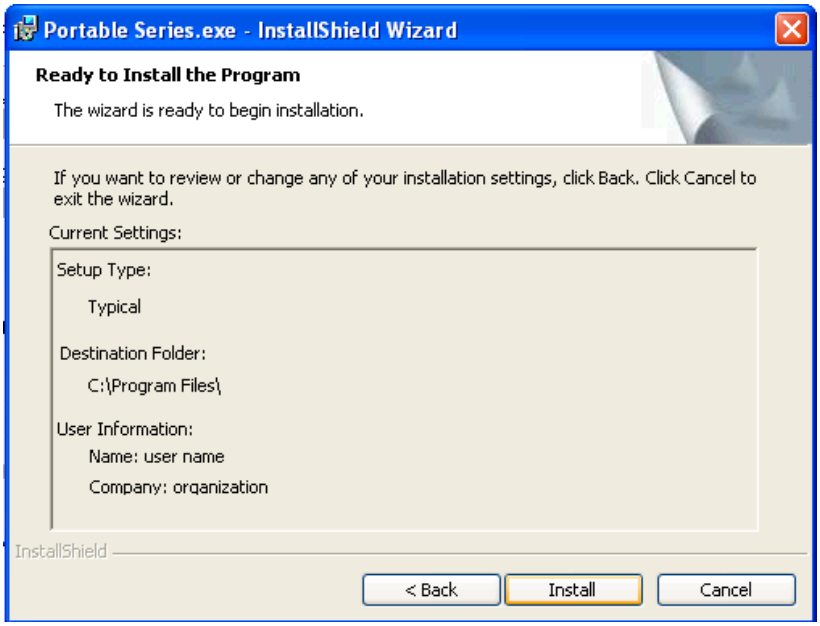
Click *Next*>, you will see:



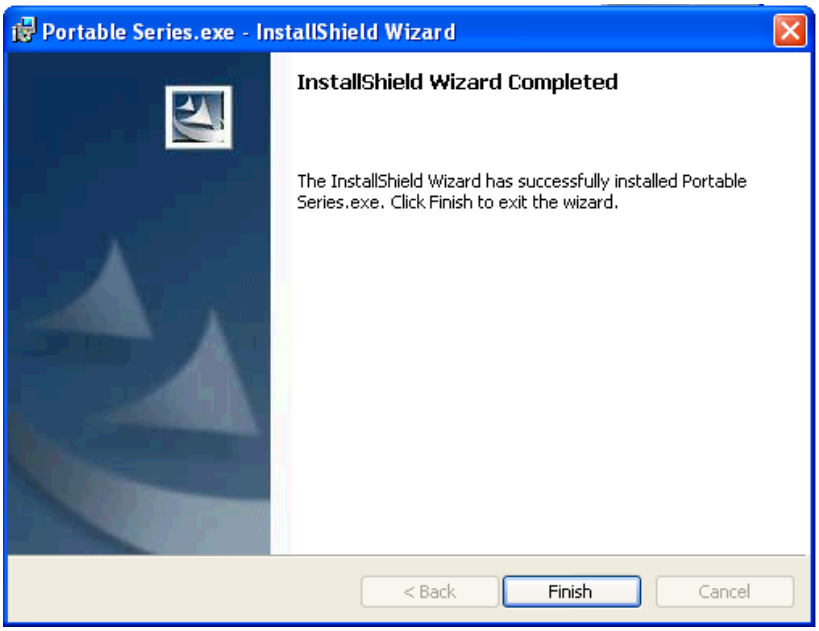
Select *I accept the terms in the license agreement*, click *Next>*, you will see:



Type the *User name* and *Organization*, click *Next* you will see:



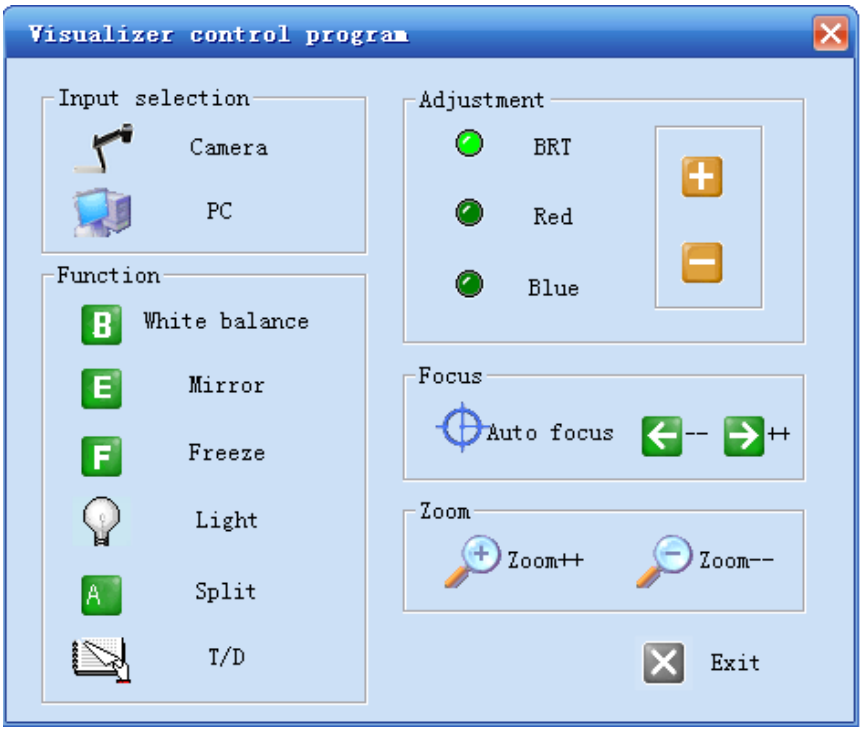
Click Install, then you will see:



Click *Finish* to finish the installation.

4. Double click or click *start->All Programs->Portable Series->Portable Series.exe* to run the RS232 software, you will see a tool bar:

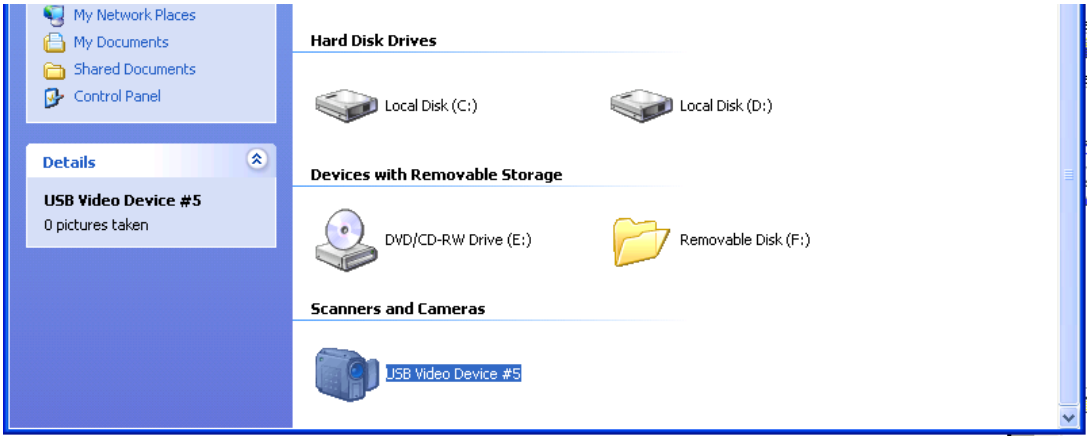
The definition of each button is **Zoom in, Zoom out, Auto focus, Functions, Minimize, Close.**
Click Functions, you will see the following control panel.



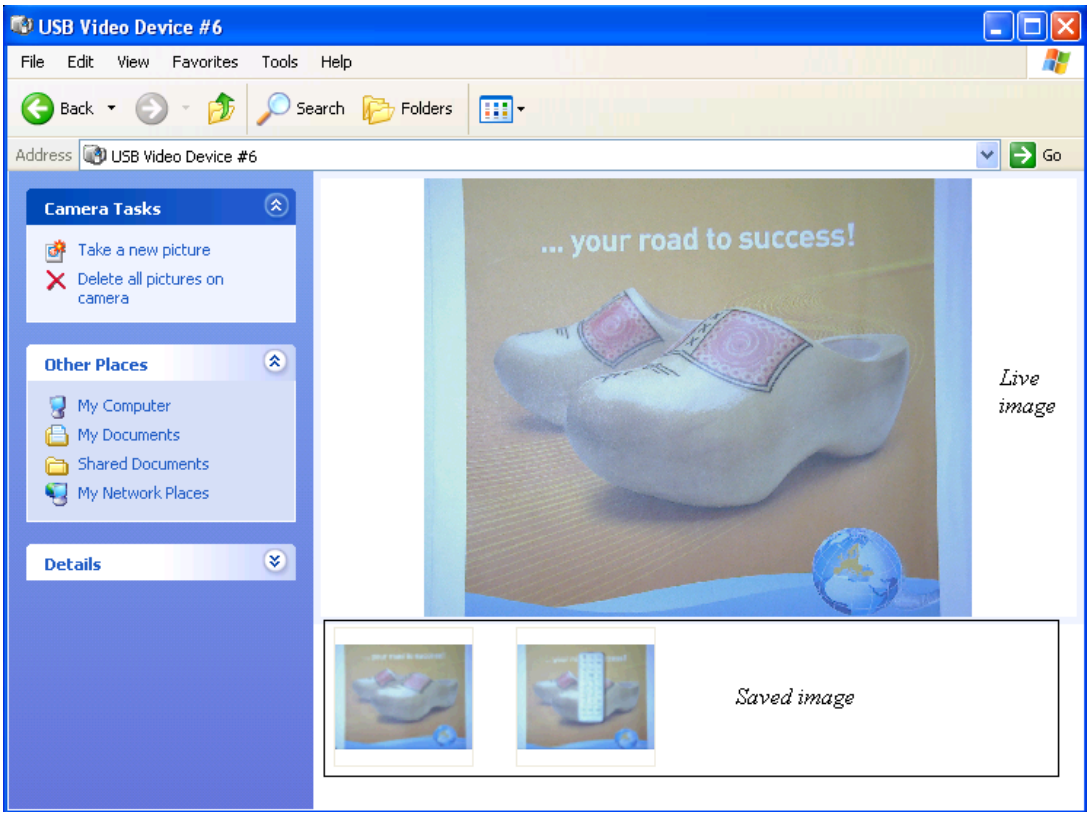
6.2 USB CAMERA

You can capture images and videos on the i-3080 from a computer via a connected USB cable.

1. Connect the computer and the i-3080 with a USB cable and turn on the power of the i-3080.
2. Open *My Computer* and you will see a USB Video Device:

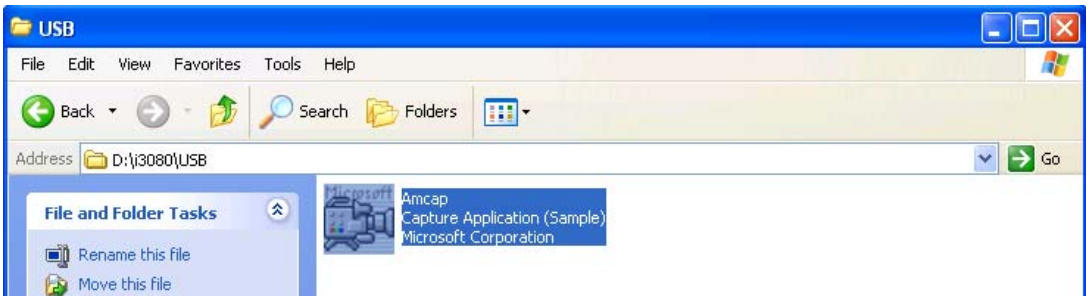


3. Double click USB Video Device, you will see the following image capture window:

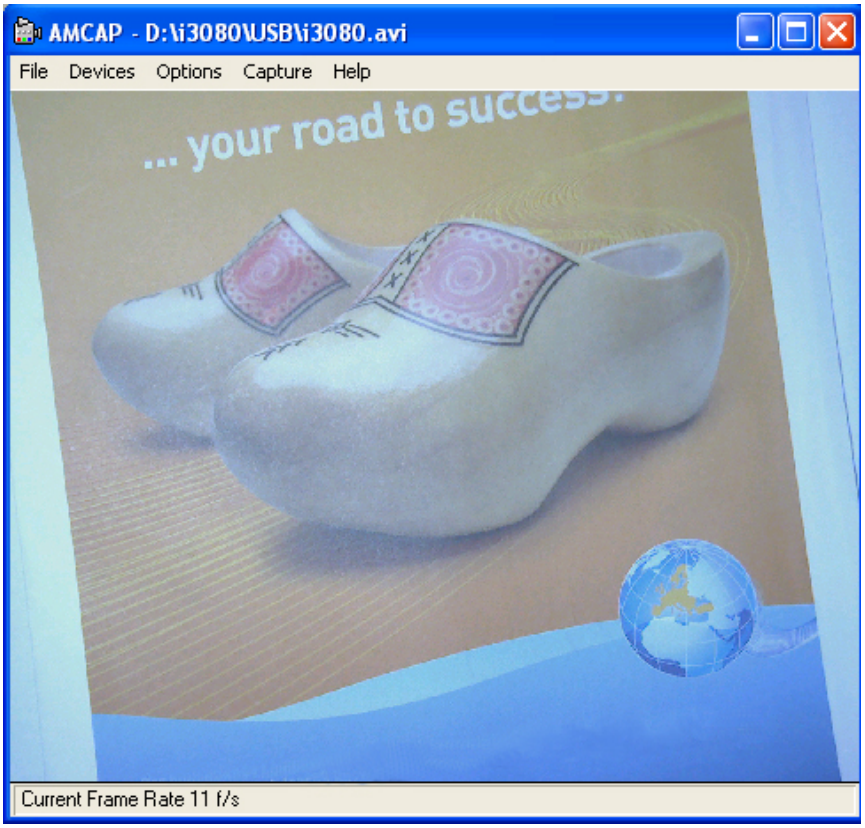


To capture the video, please see the following steps:

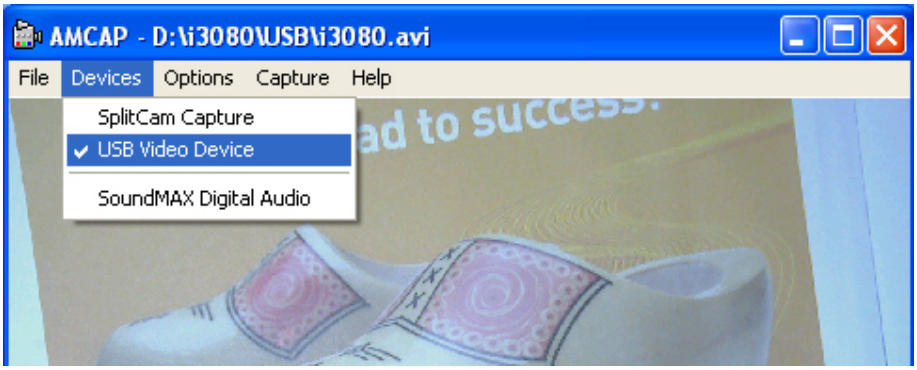
1. Copy the USB software that is on the provided CD into the folder i-3080.
2. Open the USB folder and double click to run the USB capture application:

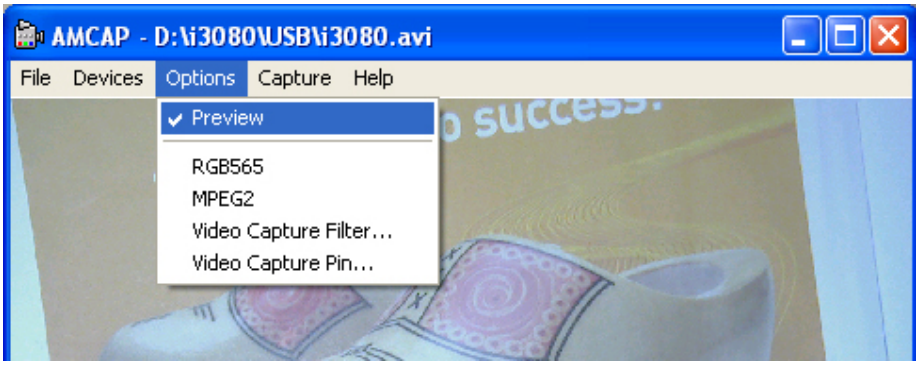


You will see the following window:

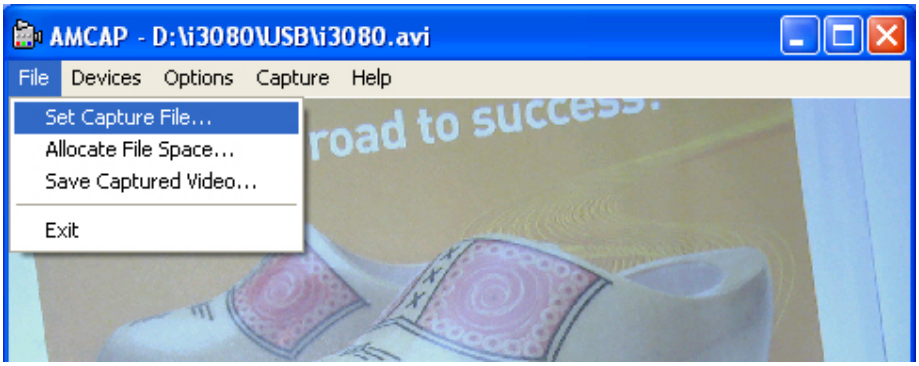


2. Please make sure the software is in the proper setting.
Make sure to click *Devices->USB video device* and *Options->Preview.*

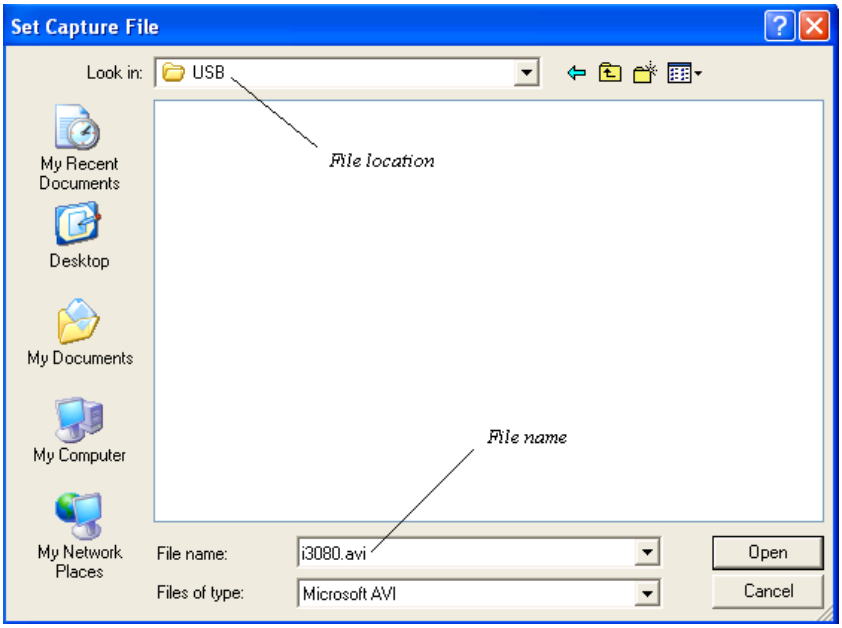




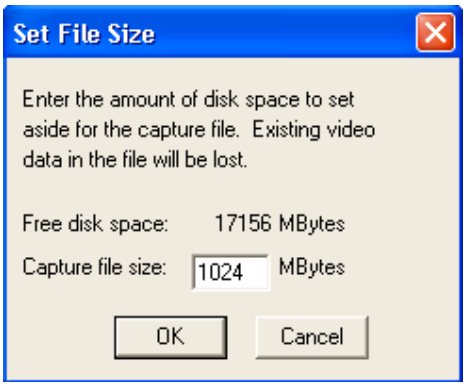
3. Click *File->Set Capture File*, to set the captured file.



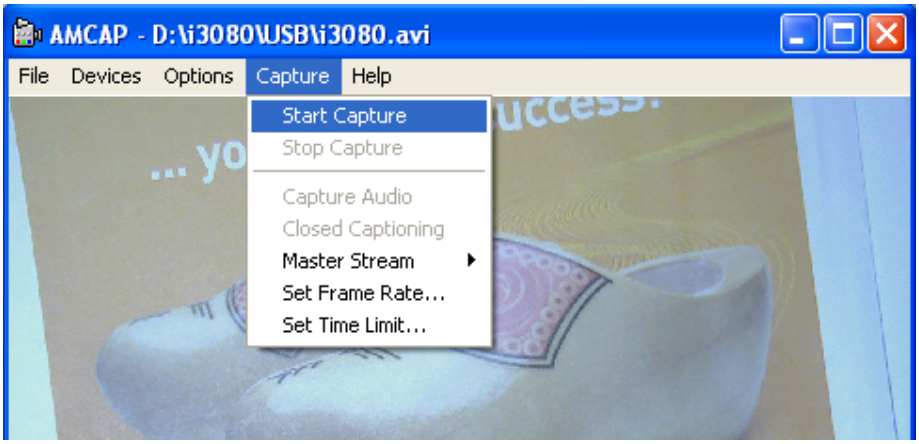
A. Set the location and the file name.



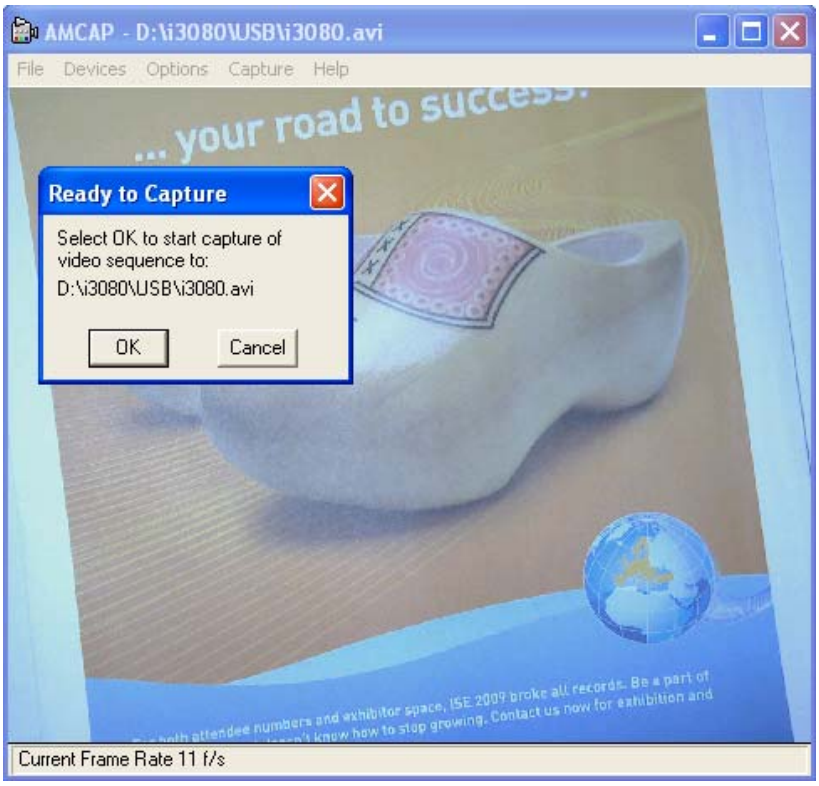
B. Set the file size.



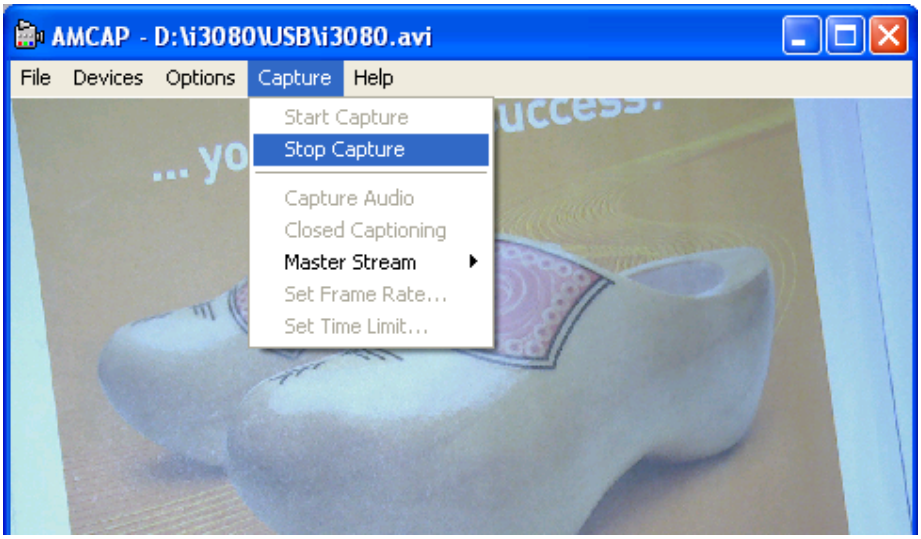
4. Click OK to finish the setup, and then click *Capture->Start capture* to capture video.



4. You will see the following window, Click OK to start capture.



6. Click *Capture->Stop Capture* to stop



7. FEATURES

LIGHT

The i-3080 is an 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 i-3080 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 i-3080 enables you to view the finest details of any objects that are impossible to see with your naked eyes. The i-3080'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 i-3080 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 improving 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 i-3080 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 you to connect a computer into the i-3180 and display the computer image by the touch of a button. i-3080 also has built-in C-Video and S-Video output terminals, which can display the CMOS image to a connected video display device.

USB 2.0 PORT

The USB port offers the function of capture still images and stream videos into a connected computer. No additional computer hardware is required. In this way, the i-3080 can be used as a 3-D scanner for your computer. Connect the i-3080 to your computer with the supplied USB cable. The i-3080’s software is available on the supplied CD-ROM.

USB IMAGE CAPTURE AND VIDEO RECORDING

Simply connect the i-3080 to a computer, with the software and driver we provided, you can easily preview, capture and save images and videos to your PC and Mac.

RS232 CONTROL

The RS232 terminal allows you to integrate the i-3080 into any sophisticated central control system. RS232 also enable you to control the i-3080 via a connected computer.

8. SPECIFICATIONS

Model No.	i-3080
Sensor	1/3" CMOS
pixels	3 Megapixel
Zoom	9x optical, 8x digital
Frame rate	24
Shooting area	Max: 13.5" x 10.6" /34.3 cm x 26.9 cm Min: 0.1" x 0.1"/0.3 cm x 0.3 cm
Focus	Auto/manual
Output resolution	XGA,SXGA
Resolution (horizontal)	≥750 TV lines
White balance	Auto/manual
Color adjustment	Yes
Brightness adjustment	Yes
Image capture	Yes, 12 images
Video recording	Yes(via USB)
Image mirror	Yes
Image split	Yes
Image freeze	Yes
Text mode	Yes
OSD	Yes
INPUT TERMINALS	
VGA	x1
AUDIO	x1
OUTPUT TERMINALS	

VGA	x1
VIDEO	x1
S-VIDEO	x1
AUDIO	x1
OTHER TERMINALS	
USB2.0	Slave×1(USB camera)
RS232(computer controllable)	x1
Remote control	Yes(360°controllable)
Kensington lock	Yes
Light source	Embedded LED lamp
Operating temperature	32° F to 104° F 0° C to 40° C
Dimensions	Folded:12.6"×6.6"×3.7" 32cm x 16.8cm x 9.4cm Setup:19.7"×6.6"×19.3" 50cm x 16.8cm x 4.9cm
Power supply	12V DC power adapter
Weight(net)	5.5lbs/2.5kg

9. TROUBLE-SHOOTING:

Symptoms	Possible causes/counter-measures
No image	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	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	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.

10. PACKING LIST

Item	Quantity
Power cord	1
Power adaptor(12V/2A)	1
VGA cable	1
Video cable	1
S-Video cable	1
USB cable(2.0)	1
Remote control	1
User manual(CD)	1

11. TECHNICAL SUPPORT

Brillian Technology is committed to providing highest possible stand of customer service. We can be reached:

By Phone

Call us at 1-877-98-Brillian/1-877-982-7455. Our technical support staff provides technical assistance from 9:00AM through 5:00PM Eastern Standard Time, Monday through Friday. Please gather the following information before calling:

- Product model name(s) and numbers
- Product serial number(s)
- Detailed and specific questions

Online

Technical support is also available online at Brillian's web site at www.brilliantechnology.com.

You can enter your questions and concerns through our online form. Or you can email us at support@brilliantechnology.com.

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