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# **USB PTZ Camera Controller**

## **User Manual**

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# 1 What is USB PTZ Camera Controller

## 1.1 Introduction to USB PTZ Camera Controller

The software enables users to control the PTZ camera and modify its settings, providing convenient camera control during a video conference.

## 1.2 Applicable to: VC-B20U

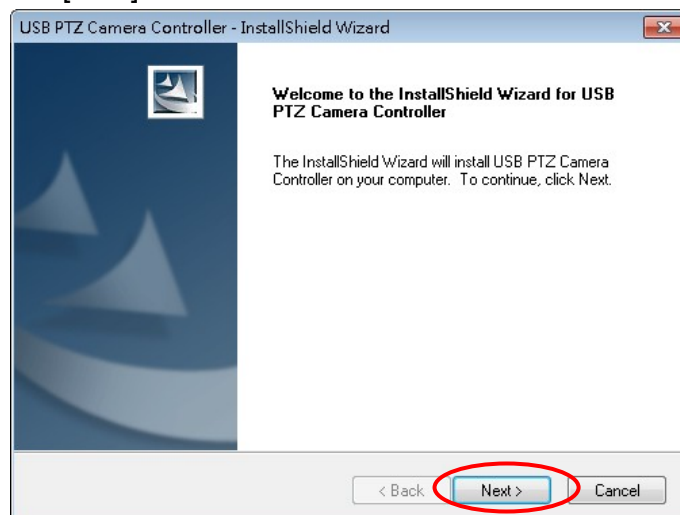
# 2 Connections and Installation

## 2.1 System Requirements

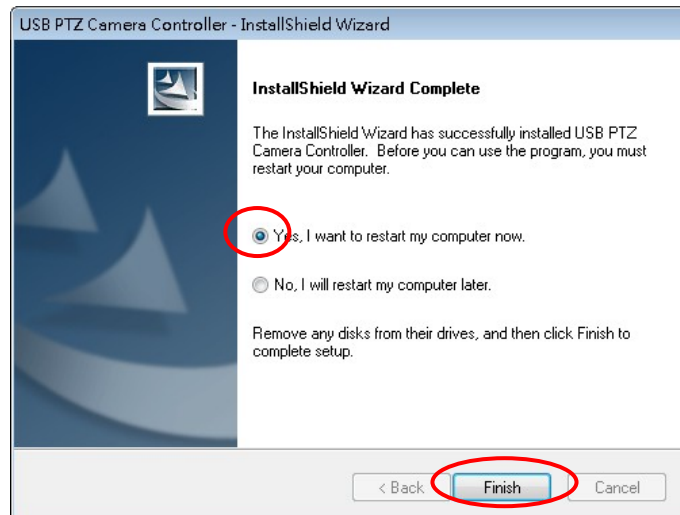
- ◆ OS: Windows 7 / 8 / 8.1 / 10
  - CPU: Intel Core 2 Duo 2 GHz or above
  - Memory: 1 GB (32-bits)/2 GB (64-bits) RAM
  - Min Hard Drive Space: 1 GB or above
  - Min Resolution: 1024 x 768
  - Supporting Direct X 9
- ◆ OS: MAC OS X 10.8 ~ 10.10
  - CPU: CPU: Intel Pentium® 2 GHz Intel Core 2 Duo
  - Memory: 1 GB DDR2 667 Hz RAM or above
  - Min Hard Drive Space: 1 GB or above
  - Min Resolution: 1024 x 768
  - 24-bit display
  - QuickTime: 7.4.5 or above

## 2.2 Installing USB PTZ Camera Controller on Windows

- 2.2.1 Click [**setup.exe**] to enter the installation screen, then follow the instruction on the screen to click [Next].

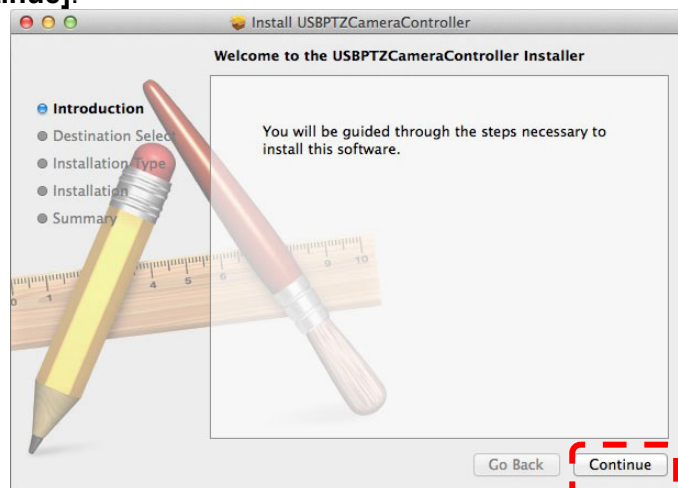


## 2.2.2 Please **[Restart]** the computer to complete the installation.

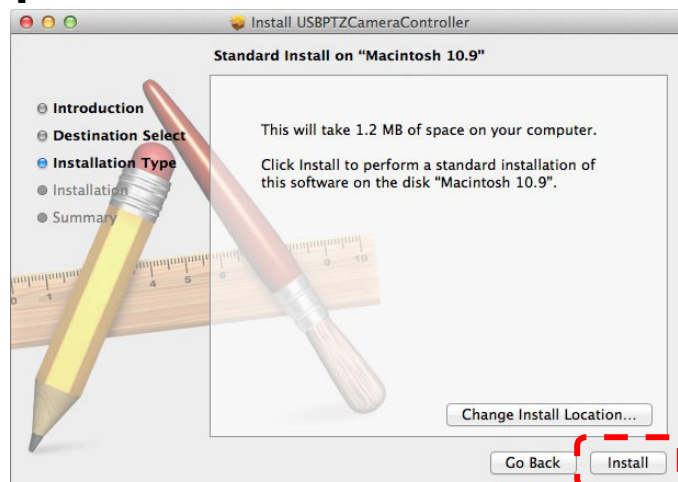


## 2.3 Installing USB PTZS Camera Controller on a MAC

- 2.3.1 Please download **USB PTZ Camera Controller** software on the **Lumens™** website.
- 2.3.2 Extract the file downloaded and then click **[USBPTZCameraController.pkg]** to install.
- 2.3.3 Please finish the installation by following the on-screen instructions.
- 2.3.4 Click **[Continue]**.



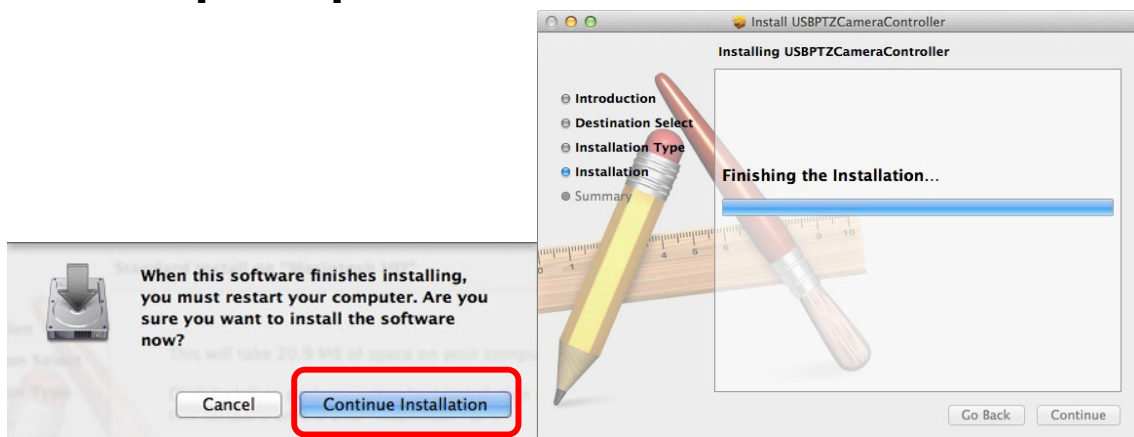
## 2.3.5 Click **[Install]**.



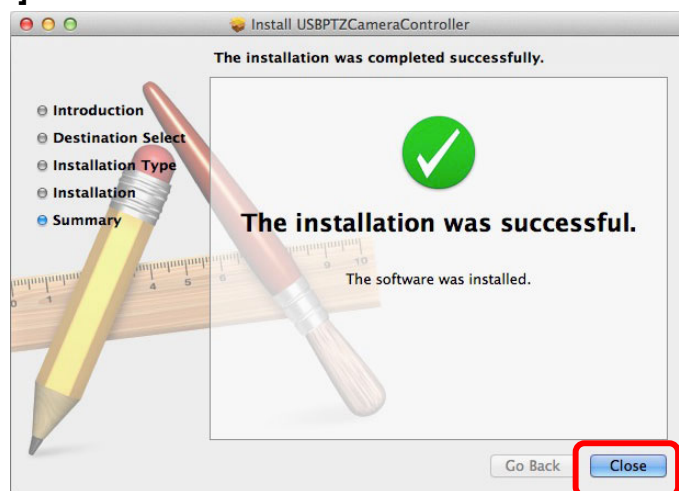
2.3.6 Enter the username and password, and then press **[Install Software]**.



2.3.7 Click **[Continue]**.



2.3.8 Press **[Restart]** to finish the software installation.



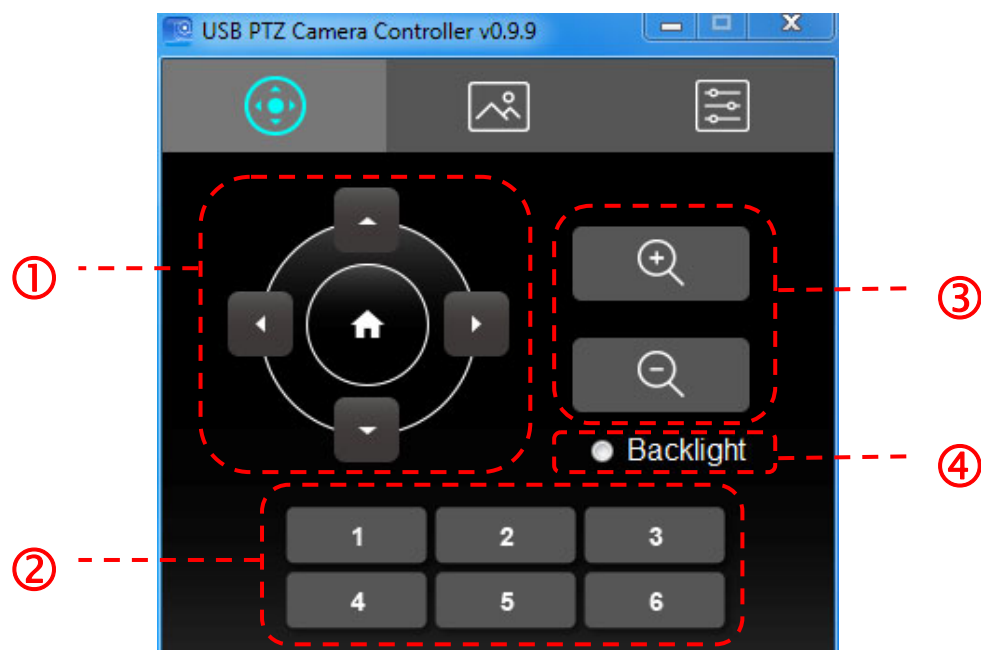
## 3 Start Using

Before launching the software, please ensure that the camera is correctly installed. Only launch **USB PTZ Camera Controller** after the video conference begins.

## 4 Function Description

### 4.1 PTZ main Screen

This screen offers a set of commonly used camera functions.

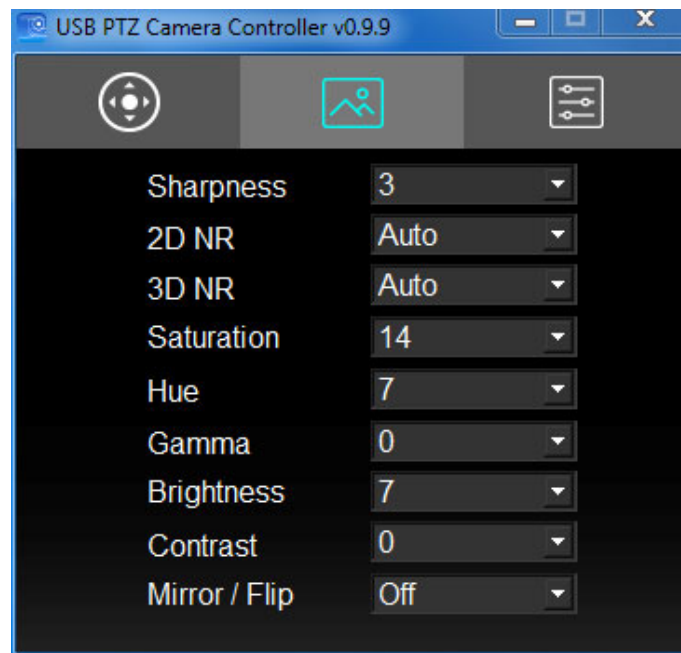


**<Remark>**The following descriptions are in the order of left to right and top to bottom as indicated in the figure

No.	Function	Description
1.	◀, ▶, ▲, ▼	Move the lens
2.	Call Preset (1~6)	Pre-set Shortcuts
3.	Zoom +/-	Adjust image size
4.	Backlight	Backlight compensation

## 4.2 Picture Settings Page

Image quality related parameters can be modified on this page



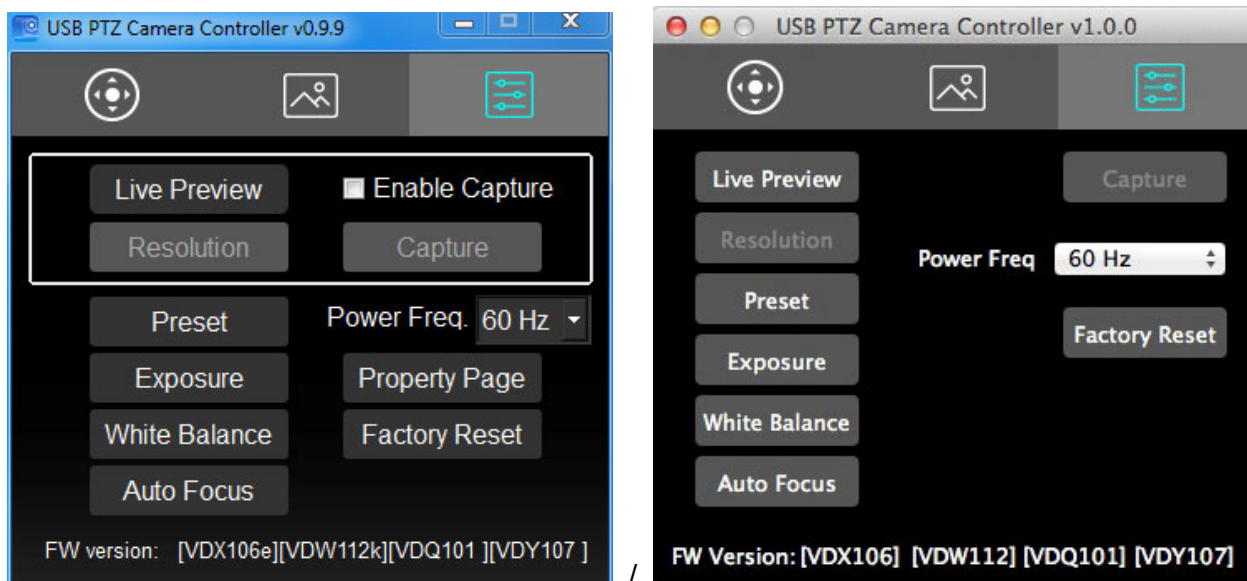
**<Remark>**The following descriptions are in the order of left to right and top to bottom as indicated in the figure

No.	Function	Description
1.	Sharpness	Adjust the Sharpness of the image
2.	2D NR	Noise reduction setting
3.	3D NR	3D dynamic noise reduction settings
4.	Saturation	Adjust the Saturation of the image
5.	Hue	Adjust the Hue of the image
6.	Gamma	Adjust the Gamma of the image
7.	Brightness	Adjust the Brightness of the image
8.	Contrast	Adjust the Contrast value of the image
9.	Mirror / Flip	Set the Mirror/Flip mode



### 4.3 Advanced Settings

Users can access advanced camera functions and modify advanced settings on this page.



**<Remark>**The following descriptions are in the order of left to right and top to bottom as indicated in the figure

No.	Function	Description
1.	Live Preview	Opens the USB PTZ Camera preview window
2.	Resolution	Settings of the preview window resolution; this function will only be available when the preview window is launched
3.	Enable Capture	Deactivate capture function
4.	Capture	Capture images
5.	Preset	Opens the preset settings window
6.	Exposure	Opens the exposure settings window
7.	White Balance	Opens the white balance settings window
8.	Auto Focus	Opens the auto focus settings window
9.	Power Freq.	Resets the power frequency
10.	Factory Reset	Returns to factory reset
11.	Property Page	Opens the Windows built-in video property page
12.	FW version	Displays the FW version number

#### 4.3.1 Exposure Settings

No.	Function	Description
1.	Mode	Exposure mode setting
2.	Exposure Level	Adjusts exposure level
3.	Manual Gain	The value can be adjusted when the mode is set to Manual
4.	Manual Speed	The value can be adjusted when the mode is set to Shutter Pri

5.	Manual Iris	The value can be adjusted when the mode is set to Manual or IRIS Pri
6.	Gain Limit	Different AE Modes store Gain Limit parameters respectively
7.	WDR	WDR stores parameters according to AE mode

#### 4.3.2 Auto focus


No.	Function	Description
1.	Mode	Sets focus mode
2.	AF Sensitivity	Selects AF triggering speed
3.	AF Speed	Focus speed after AF triggering
4.	AF Frame	Selects Full or Center focus
5.	Focus	The value can be adjusted when the mode is set to Manual
6.	AF One Push Trigger	Performs focus once

#### 4.3.3 White Balance Settings


No.	Function	Description
1.	Mode	Sets white balance mode
2.	Auto Type Select	Selects different modes under Auto
3.	Red Gain	The value can be adjusted when the mode is set to Manual
4.	Blue Gain	The value can be adjusted when the mode is set to Manual
5.	Auto White Balance	Performs auto white balance once

## 5 I would like to perform...

### 5.1 I would like to adjust the shooting angle of the lens


1. Switch to PTZ  page
2. Click on [◀, ▶, ▲, ▼] to adjust the lens until the image is at the desired angle

### 5.2 I would like to zoom in/out images


1. Switch to PTZ  page
2. Press [+] to zoom in the image
3. Press [-] to zoom out the image

### 5.3 I would like to save / call a lens preset


#### 5.3.1 Perform rapid switches between presets

1. Switch to PTZ  page
2. Click on [1] to [6] to change the angle of the lens


#### 5.3.2 Switching between presents

1. Switch to Advanced Settings  page
2. Press [Preset] to open the Preset Settings window
3. Select a preset number [0 ~ 127]
4. Click [Call Preset] to switch presets

#### 5.3.3 Save preset

1. Switch to Advanced Settings  page
2. Press [Preset] to open the Preset Settings window
3. Press [◀, ▶, ▲, ▼] to adjust the lens
4. Press [+/-] to adjust the image
5. Select a preset number [0 ~ 127]
6. Press [Set Preset] to save a preset

### 5.4 I would like to adjust the focal length

1. Switch to Advanced Settings  page
2. Click [Auto Focus] to open the auto focus settings window
3. Select [Manual]
4. Adjust [Focus]
5. Click [x] on the top right corner of the window once the parameters are set

## 6 Troubleshooting

**6.1 My subject's face is underexposed because of a strong backlight.**

**Solution:**

1. Activate BackLight

**6.2 I have launched the USB PTZ Camera Controller but I cannot control the camera.**

**Solution:**

1. Please ensure that the VC-B20U is connected to a power source.
2. Ensure that the USB is connected.
3. If the problem persists, please contact our distributors or service center.

**6.3 I am unable to Pan / Tilt the camera.**

**Solution:**

1. Please ensure that the preview screen is open.