

Software Setup & Quick Start Guide

The New Vantage *Plus* Digital Indirect Ophthalmoscope



Keeler

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Customer Notice

WE HIGHLY RECOMMEND THAT YOU READ ALL SETUP INSTRUCTIONS PRIOR TO STARTING THE INSTALLATION!

Specification

Make sure your PC/Laptop meets our minimum hardware requirements; a lower specification computer may result in poor performance.

MINIMUM PC REQUIREMENTS:

CPU: Intel Core 2 Duo 2.33GHz or higher

Memory: 1GB RAM or higher

USB Port: 2.0 – Not compatible with USB 1.0 or 1.2

Operating System: Microsoft Windows XP Service Pack 3 or higher, Windows 7 32-bit or 64 bit

Hard-Disk Speed: 5400 rpm or higher

NOT FULLY TESTED ON WINDOWS VISTA

NOT FULLY TESTED ON USB 3.0

NOTES:

A List of the tested Computers is available in Appendix A

Verify that your system has the latest USB 2.0 host driver from Microsoft® only and your USB host controller chipset is Microsoft certified.

If you are experiencing any issues with the installation or use, please refer to the trouble shooting section.

IMPORTANT: The anti-virus software or internet security software may pop up warning messages while installing the Vantage Plus Digital software. Please ignore the warning message or disable the antivirus/internet security software before installation.

IMPORTANT: To uninstall Vantage Digital EV02 and the related software modules, you should use the provided uninstall software program. Please refer to Uninstall Vantage Digital section.

Users who have upgraded their existing Vantage Plus Digital need to install the new software from the CD that has been provided to them. The upgrade will **NOT** work with previous software installations.

WARNINGS:

1. Range of application: The Keeler Vantage Plus Digital Indirect Ophthalmoscope is used exclusively for training in the use of Indirect Ophthalmoscopes. A video image of the eye is shown on a screen/monitor. Recorded images shall not be used for diagnosis.
2. Use only power sources which are designed for use in medical applications. This also applies to any accessories and the monitor used with the system.
3. This manual is only available for the setup of the Keeler Vantage Plus Digital Indirect Ophthalmoscope.
4. The information in this document is subject to change without notice.
5. Keeler Ltd assumes no responsibility for any data errors in this document or the software described in this document.
6. Keeler Ltd assumes no responsibility for any data corruption caused by a hardware accident, disk crash, windows system malfunction, or misuse.
7. Keeler is not responsible for the malfunctioning of the personal computer, installation of other software, or updates of the operating system or other software.
8. Keeler assumes no responsibility for misuse or malfunction of the device/accessories supplied.
9. The specifications of this system are subject to change.
10. Regularly backup your stored images. Keeler is not responsible for lost or corrupted data due to problems with the hard drive.

Hardware Setup Guide

The following items are required to complete the hardware setup:

- 1 x Vantage Plus Digital Ophthalmoscope
- 1 x 5 metres USB cable

1. Begin by unwrapping the items listed above from your kit.
2. Feed the mini USB cable (the smaller of the two ends) through the cable holder by un-buttoning it and feeding the cable through and buttoning it up as shown in Figure 1

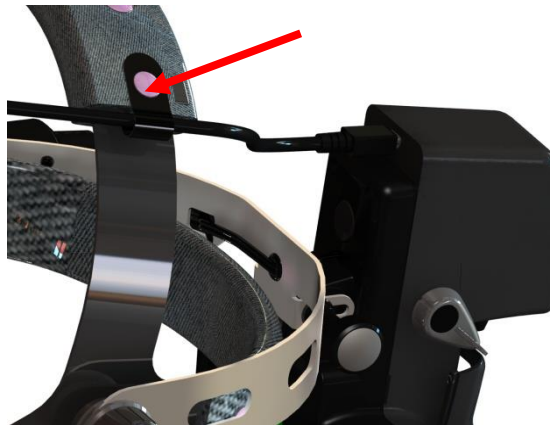


Figure 1

3. Next Plug the mini USB cable into the mini USB socket as shown in Figure 2

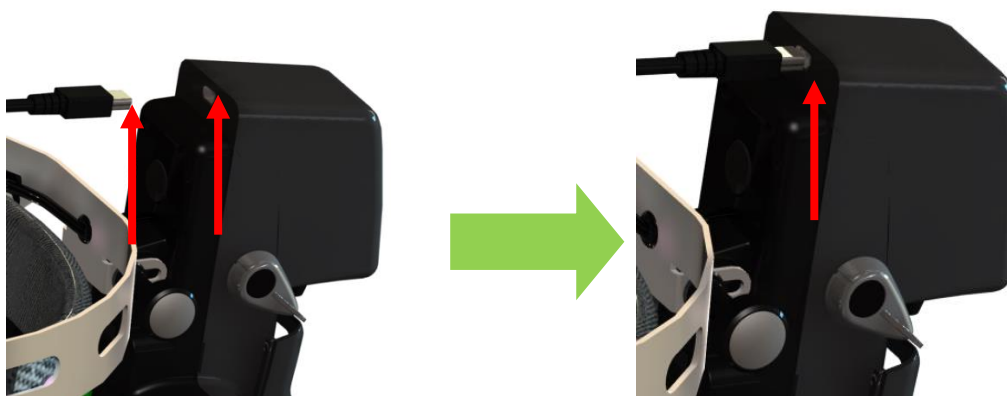


Figure 2

4. Hardware set up is now complete and you are ready to start the software set up.

Quick Start Guide

Please follow these instructions if you have purchased a new Vantage Plus Digital or you have upgraded your existing instrument.

NOTE: Users who have upgraded their existing Vantage Plus Digital need to install the new software from the CD that has been provided to them. The upgrade will **NOT** work with previous software installations.

For full installation instructions with illustrations of each screen, see the guide on the CD. However, if you feel reasonably confident at installing software, the following steps should be sufficient. Note that several applications will be installed, each ending with a close or finish.

DO NOT PLUG IN THE CAMERA UNTIL PROMPTED TO DO SO!!

1. Insert CD.
2. The setup program will auto run. If it doesn't, run "Setup.exe" program from CD manually.
3. Follow the instructions on the window to install Vantage Digital camera drivers.
4. Plug the camera into the USB port **WHEN** prompted to do so.
5. Click on the "Install" button to install PnP service.
6. The Debut license is displayed, click Accept.
7. Finish the Debut installation without selecting any of the additional utilities (they are chargeable).
8. You can configure Debut settings at this point. Click the Options button to select the KS722OUP camera from the Webcam list.
9. If your PC has a microphone, select capture sound.

NOTE:

- To uninstall Vantage Digital EV02 and the related software modules, you should use the provided uninstall software program. Please refer to Uninstall Vantage Digital section, Software Setup and Quick Start Guide – EP59-09871.
- Debut Capture Software requires a license to use it beyond the initial installation; this is included in the package. Please see the following guide to authorize your PC.

Software Setup

Introduction

Below is a step by step guide for installing the required software to run the Vantage Plus Digital Indirect Ophthalmoscope. Follow each numbered step carefully.

The installation for Windows XP and Windows 7 are similar. The following steps are applied to both operating systems if not specified.

Installation steps

Install Keeler Vantage Digital installer

1. Insert the Installation disc provided into your pc.
2. If autorun is enabled the software installation will run automatically. If not, please run the "Setup.exe" program which can be found on the CD.
3. The software installation wizard will run as shown in Figure 3. Click on the "Next" button to proceed.

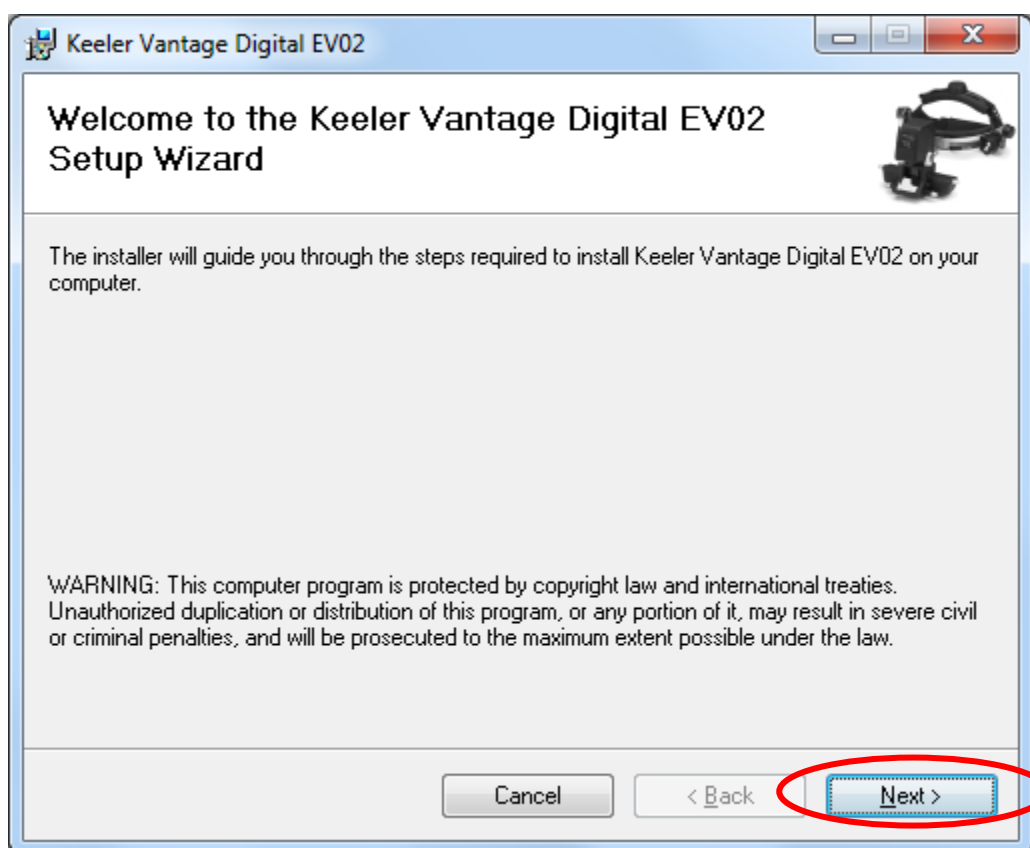


Figure 3

4. We recommend that you install the software in the default folder as shown in Figure 4. Click on the "Next" button to proceed

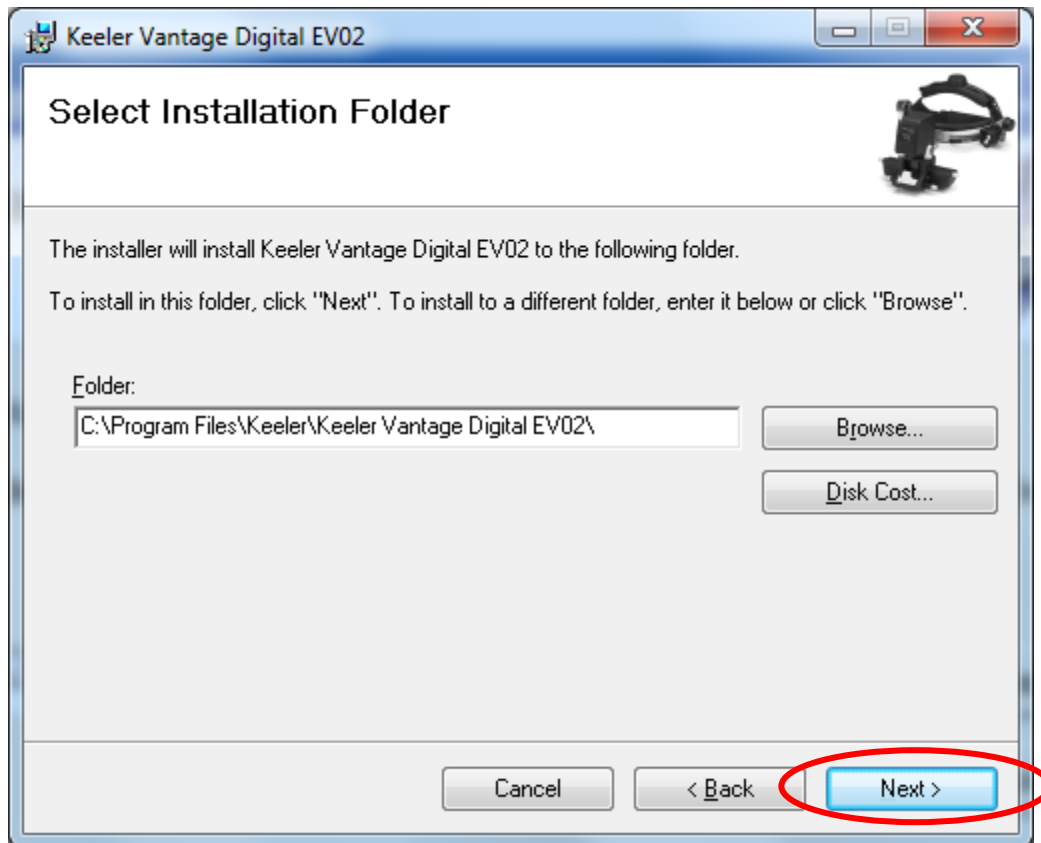


Figure 4

5. Click on the "Next" button in Figure 5 to proceed with the installation.

Note: if your Operating System is Windows7, then you will be asked to confirm the installation. Click the "Yes" button to proceed.

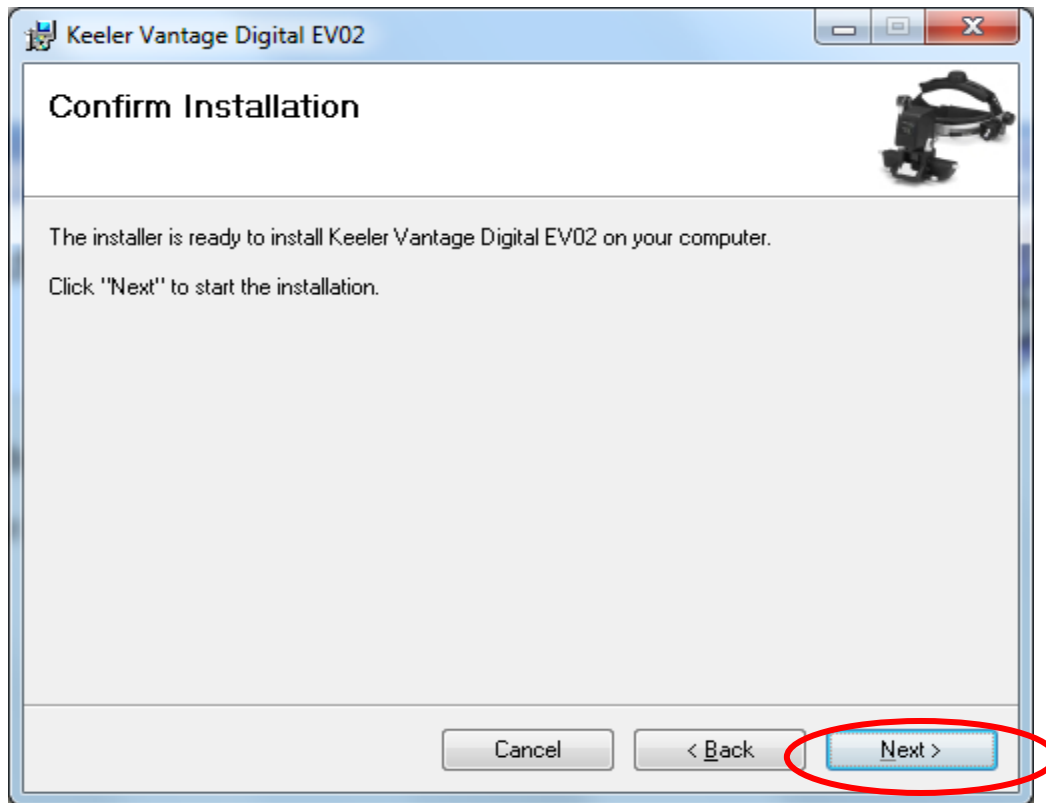


Figure 5

6. An installation complete window will appear as shown in Figure 6. Click on "Close" to complete program installation.

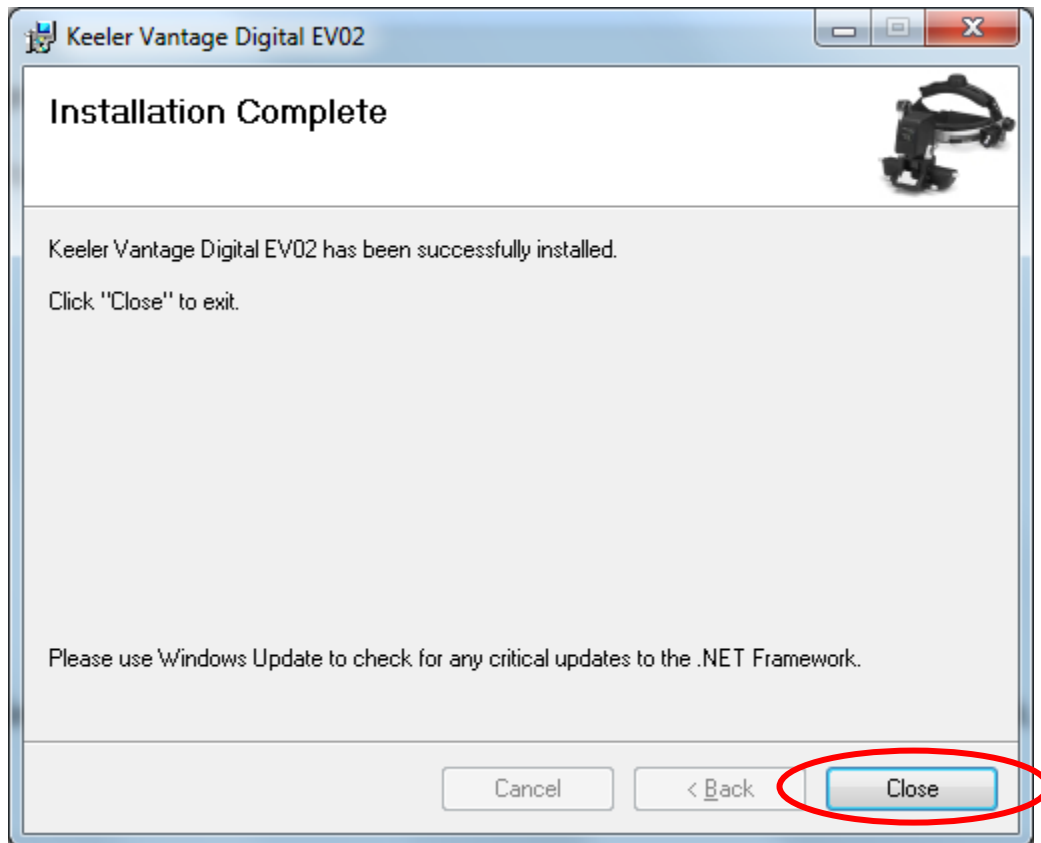


Figure 6

Install Vantage Digital driver

7. A new window “Keeler Vantage Digital EV02 Installation” appears as Figure 7. Please read the instructions carefully in “Keeler Vantage Digital EV02 Installation” window and follow the instructions to complete the installation. Click “Install”.

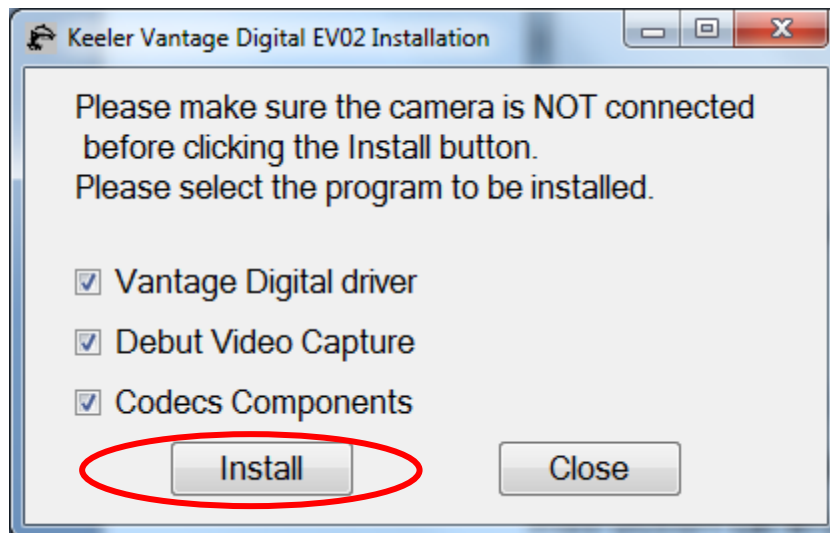


Figure 7

8. The information on “Keeler Vantage Digital EV02 Installation” window changes as shown in Figure 8. A new window “Setup – 2860 Driver” appears as Figure 9. Click on “Next” button to proceed.

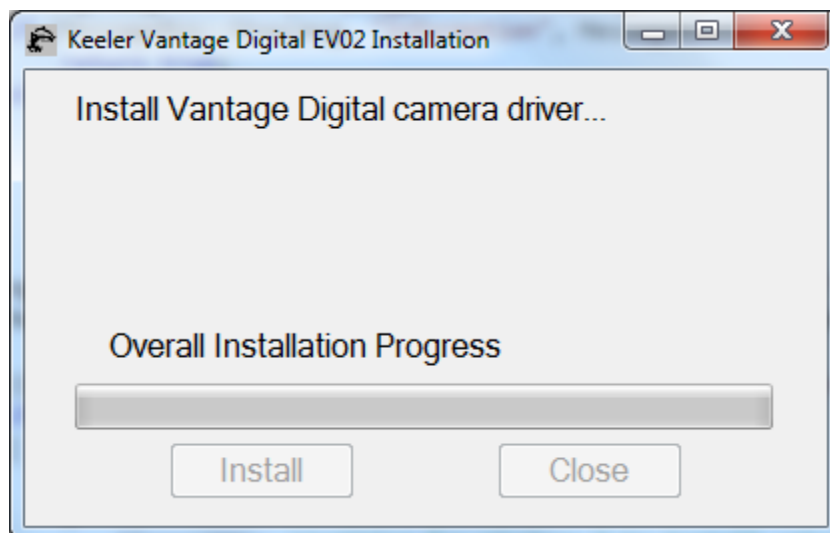


Figure 8

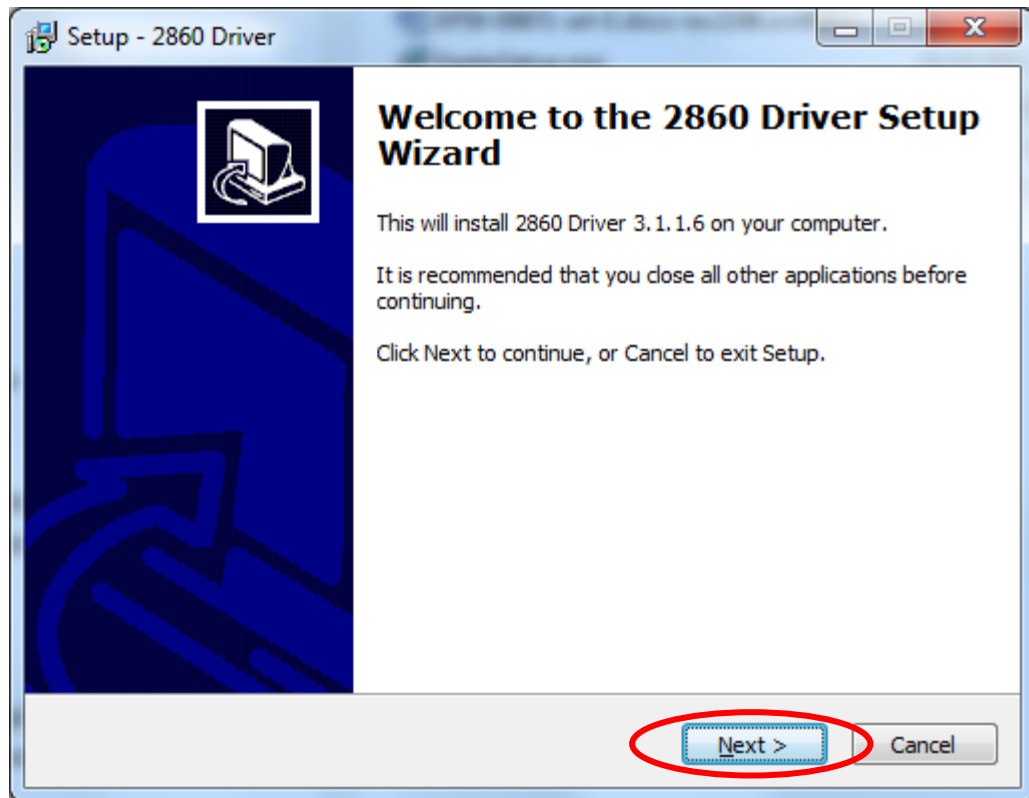


Figure 9

9. Note: We recommend that you install the software in the default folder as shown in Figure 10. Click on the “Next” button to proceed

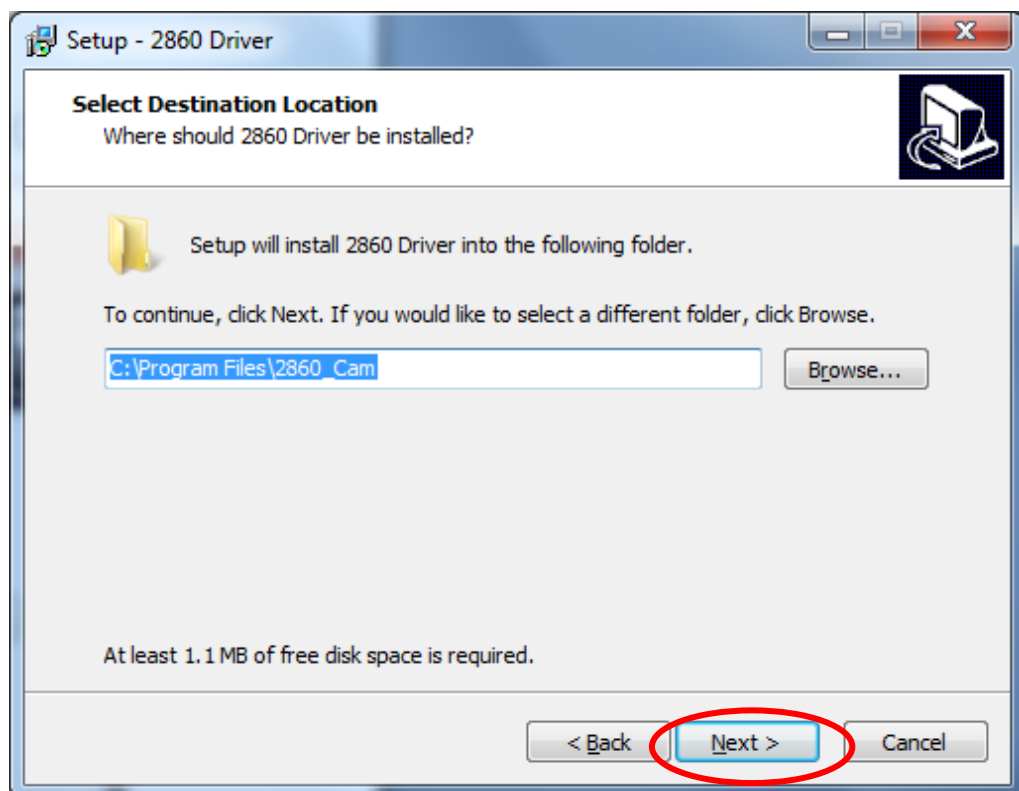


Figure 10

10. Click on the “Next” button in Figure 11 to proceed.

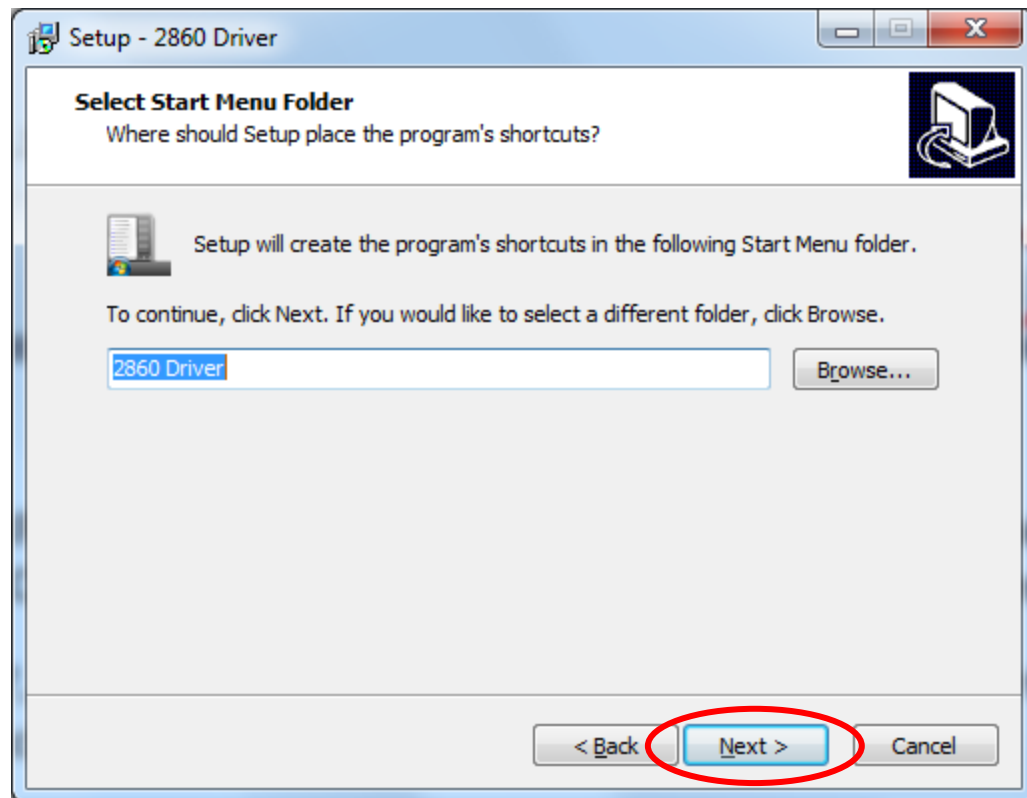


Figure 11

11. Click on the “Install” button in Figure 12 to proceed with the installation.

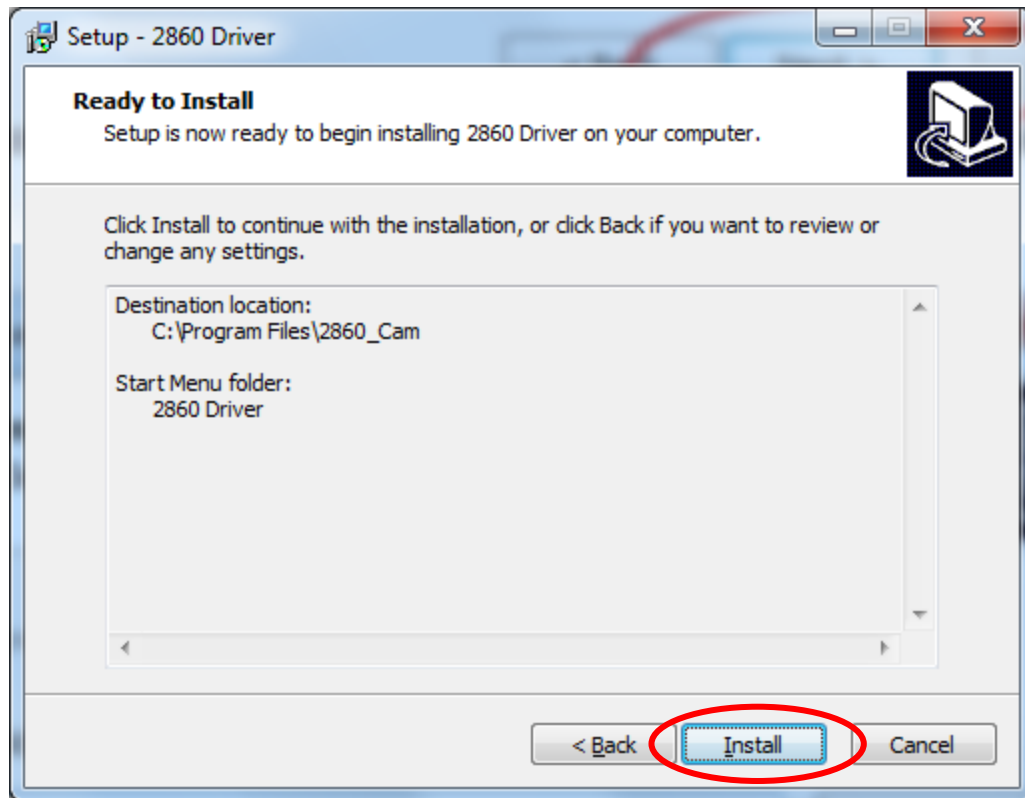


Figure 12

12. For Windows XP, a new window will pop up namely “Software Installation” as shown in Figure 13. Click on “Continue Anyway”.

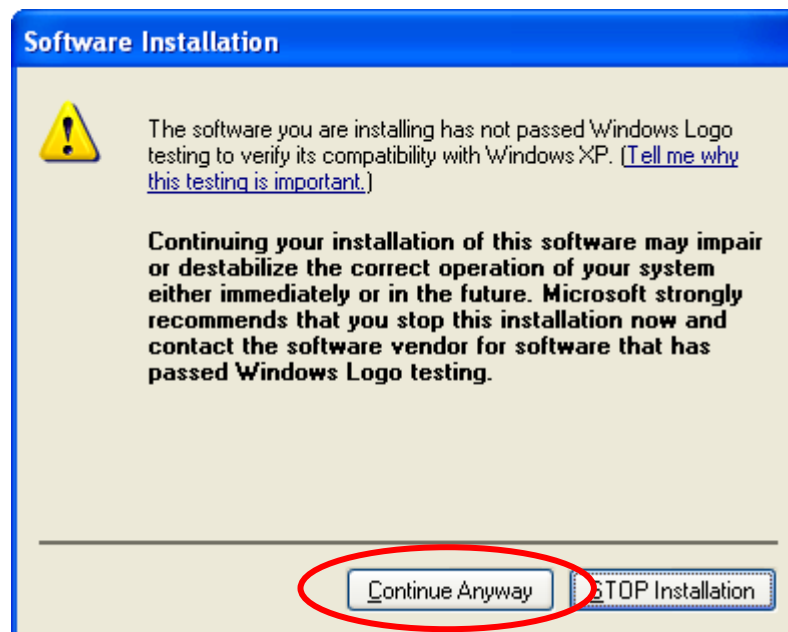


Figure 13

For Windows 7, a new window will pop up namely “Windows Security” as shown in Figure 14. Click on “Install” to continue.

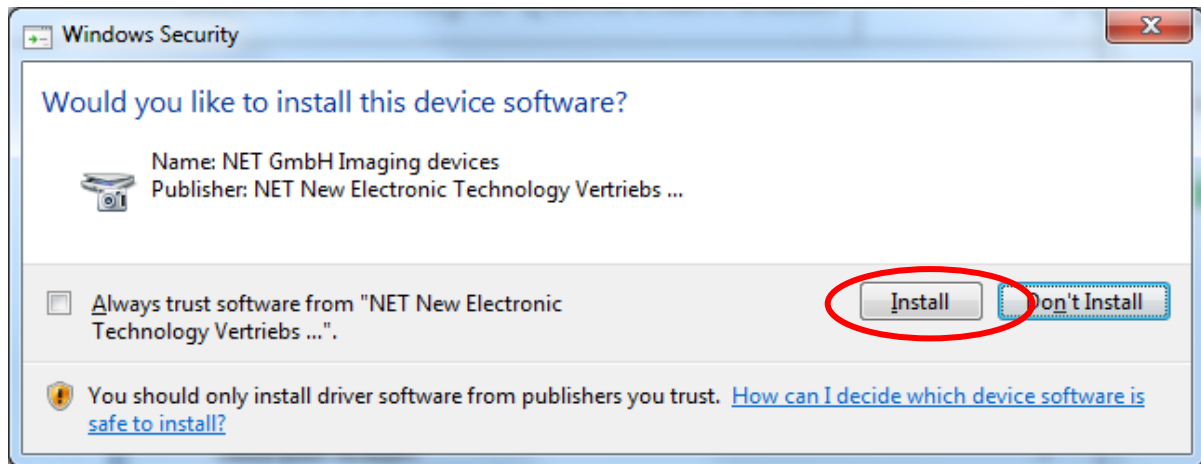


Figure 14

13. The “Setup – 2860 Driver” window changes as shown in Figure 15. Click on the “Finish” button to continue.

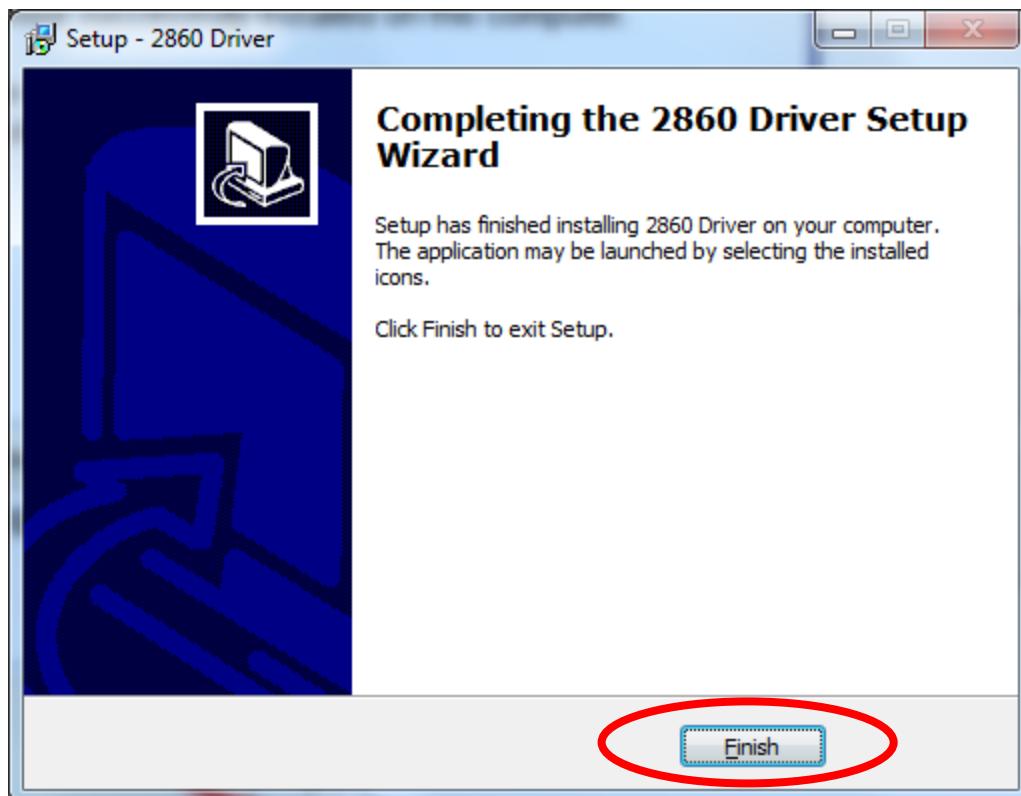


Figure 15

Install Vantage Digital camera

14. The “Keeler Vantage Digital EV02 Installation” window changes as shown in Figure 16. Please plug in Vantage Digital now to install the camera. The installation steps for

Vantage Digital camera are different between Windows XP and Windows 7. Read the appropriate steps based on your operating system.

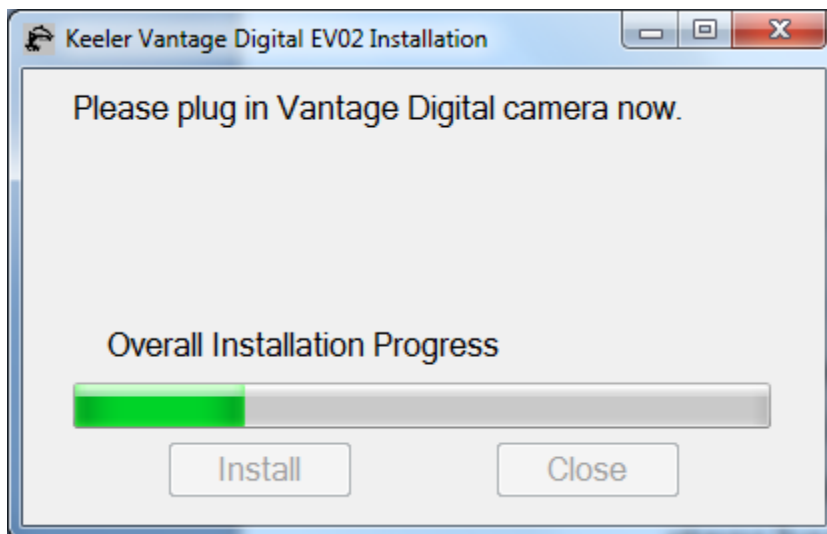


Figure 16

Install Vantage Digital camera for Windows 7

15. A new window will appear as shown in Figure 17. Plug in the Vantage Digital camera and click on the "Yes" button to continue. Please go to the section of Install PnP Service (page 22)

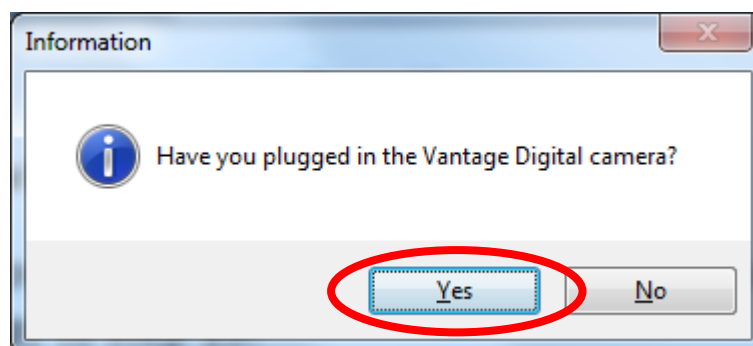


Figure 17

Install Vantage Digital camera for Windows XP

16. When the camera is plugged in, the "Keeler Vantage Digital EV02 Installation" window changes as shown in Figure 18. A new pop up window "Found New Hardware Wizard" appears as Figure 19. Check "No, not this time" and Click "Next" to continue.

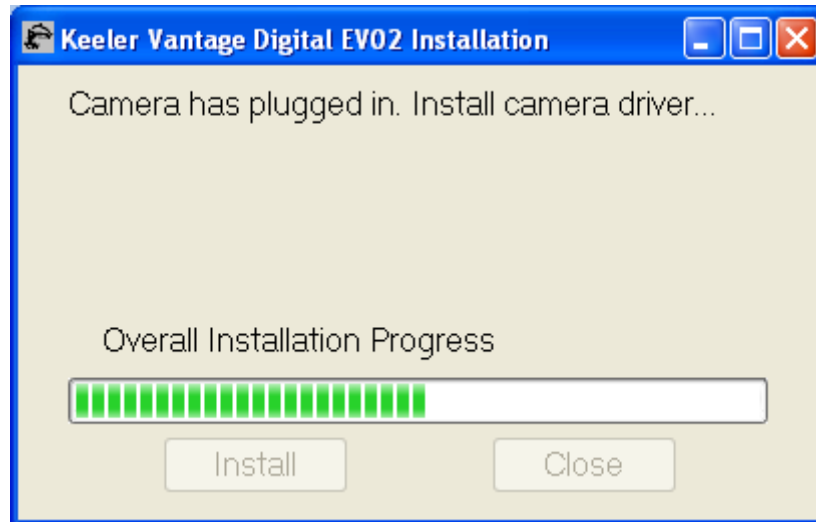


Figure 18

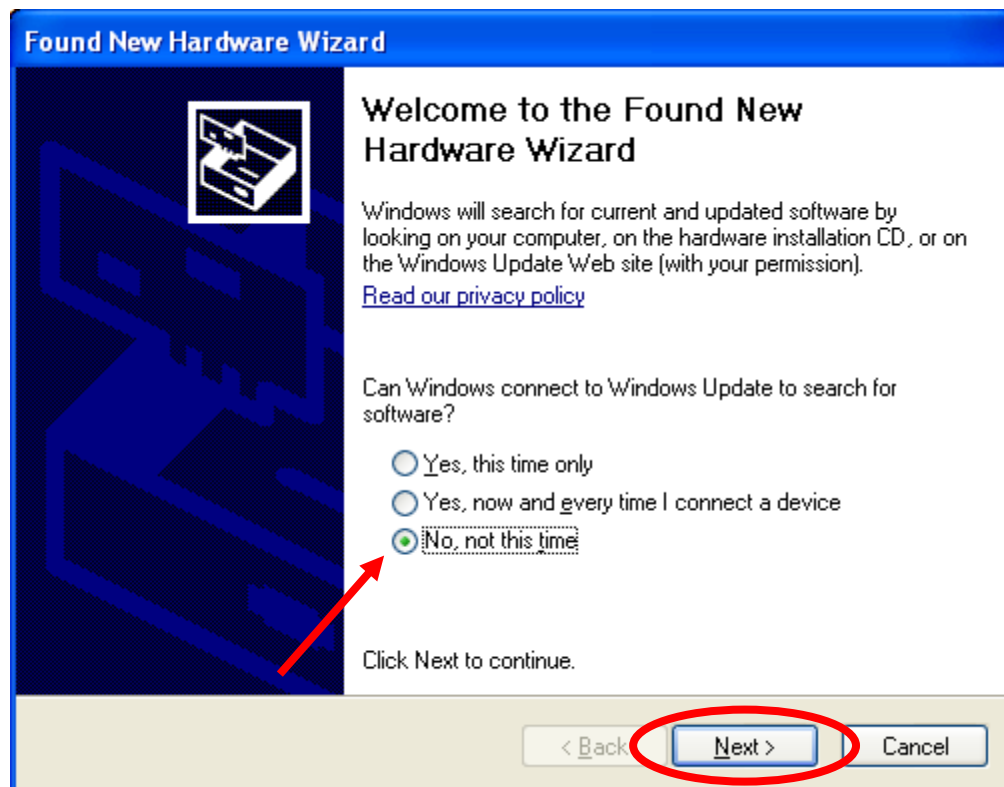


Figure 19

17. The "Found New Hardware Wizard" appears as shown in Figure 20. Check "Install software automatically (Recommended)" and click on "Next" to continue.

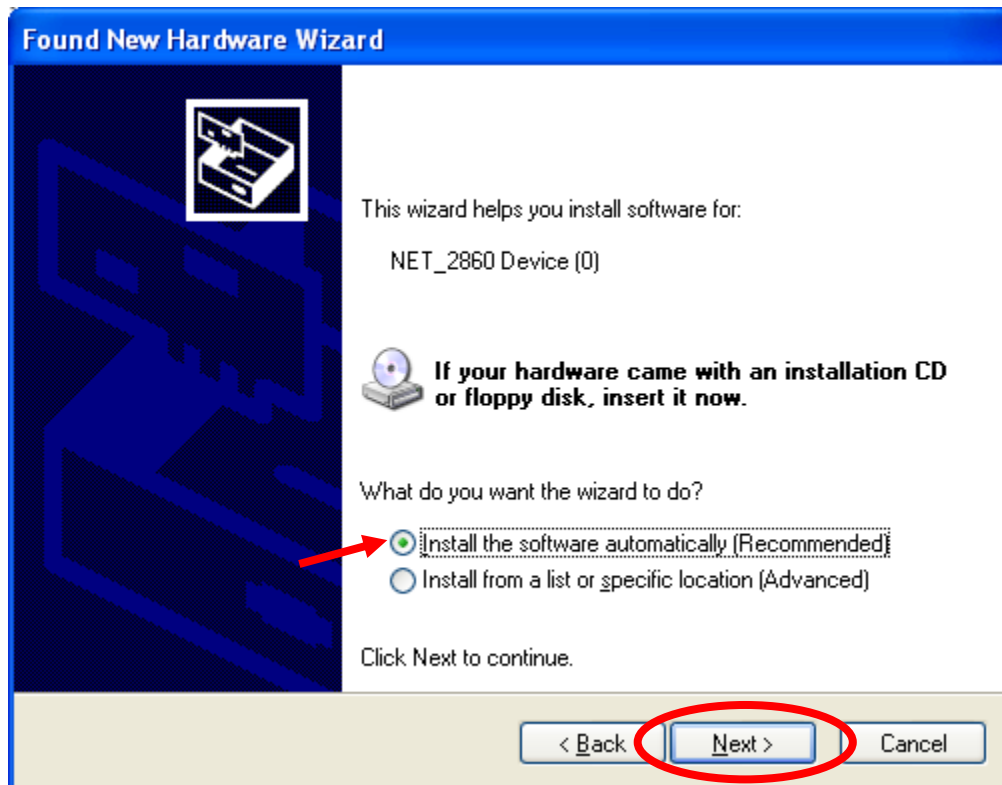


Figure 20

18. A new window will pop up "Hardware Installation" as shown in Figure 21. Click on "Continue Anyway".

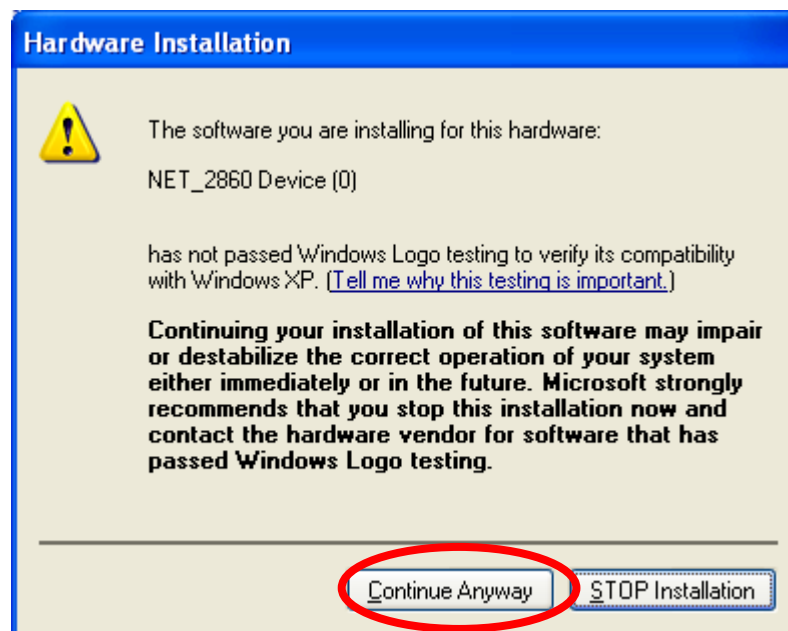


Figure 21

19. The "Found New Hardware Wizard" window change as shown in Figure 22. Click "Finish" to complete Vantage Digital camera installation.

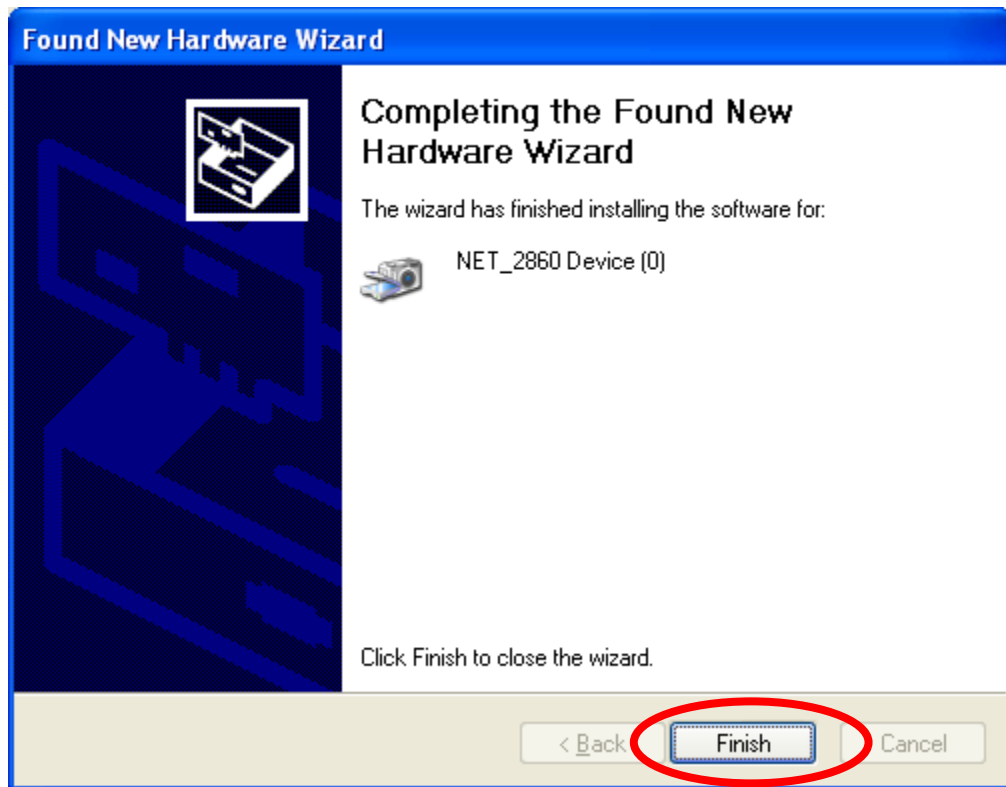


Figure 22

Install PnP Service

20. The “Keeler Vantage Digital EV02 Installation” window changes as shown in Figure 23.

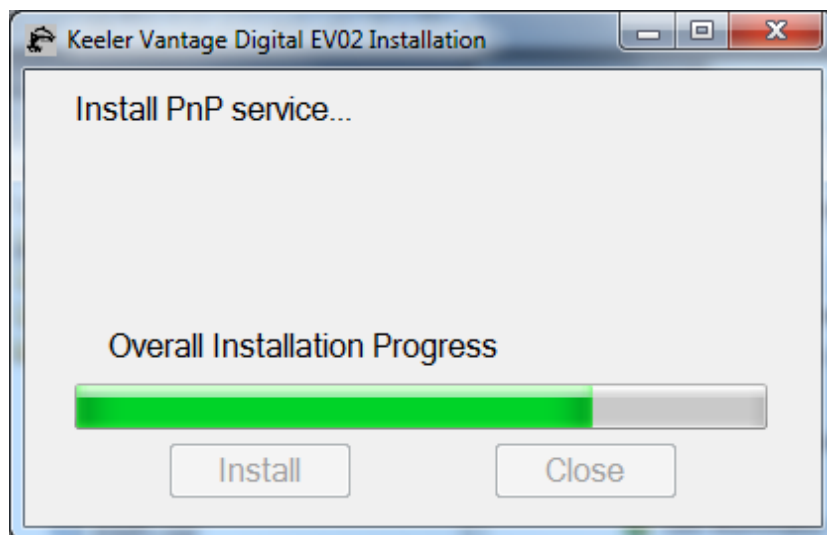


Figure 23

21. A window titled “Install PnP Service KS722OUP” will appear as shown in Figure 24. Click “Install” in the window to proceed.

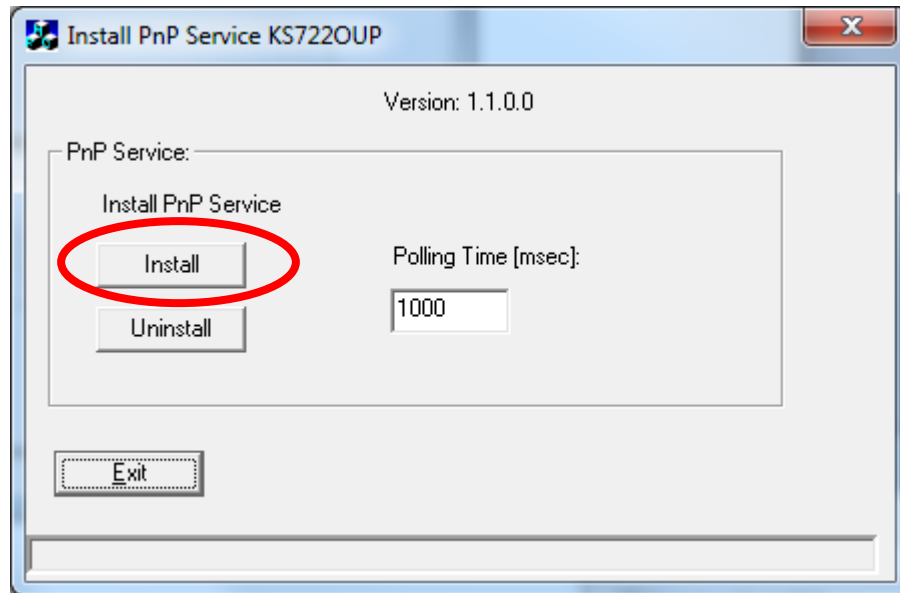


Figure 24

22. The successful installation will be confirmed in the status bar as shown in Figure 25. Click on the “Exit” button to continue.

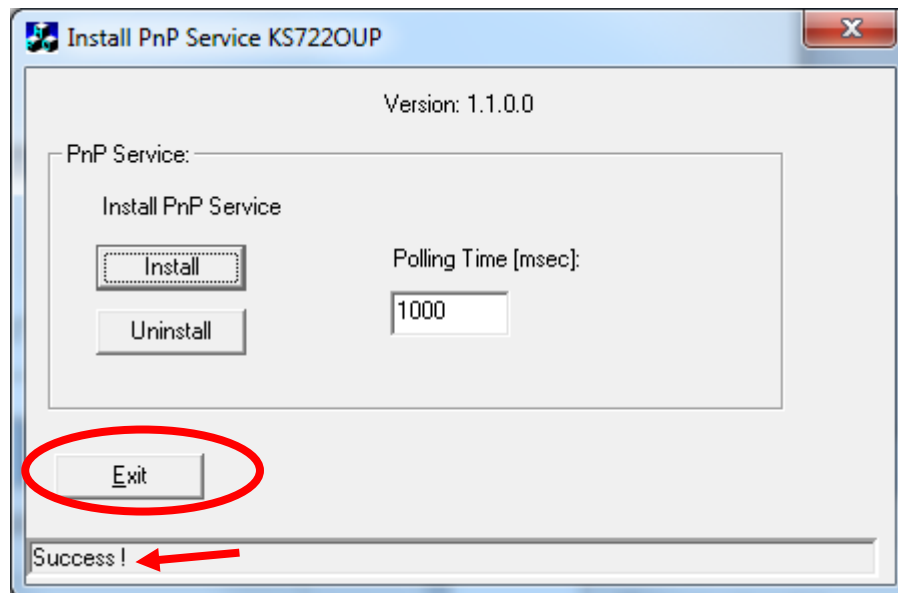


Figure 25

Install Debut Video Capture software

23. The window titled “Keeler Vantage Digital EV02 Installation” will display the “Install video capture...” message as shown in Figure 26. A window titled “Installing Debut Video Capture Software v1.63” will appear as shown in Figure 27. Please read the license agreement and accept the terms by checking the “I accept with these terms”. Click on the “Accept” button to proceed.

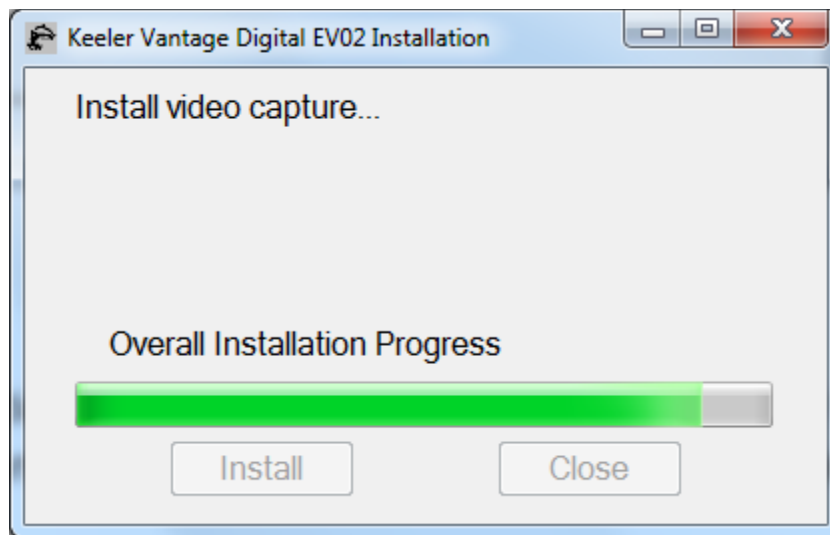


Figure 26

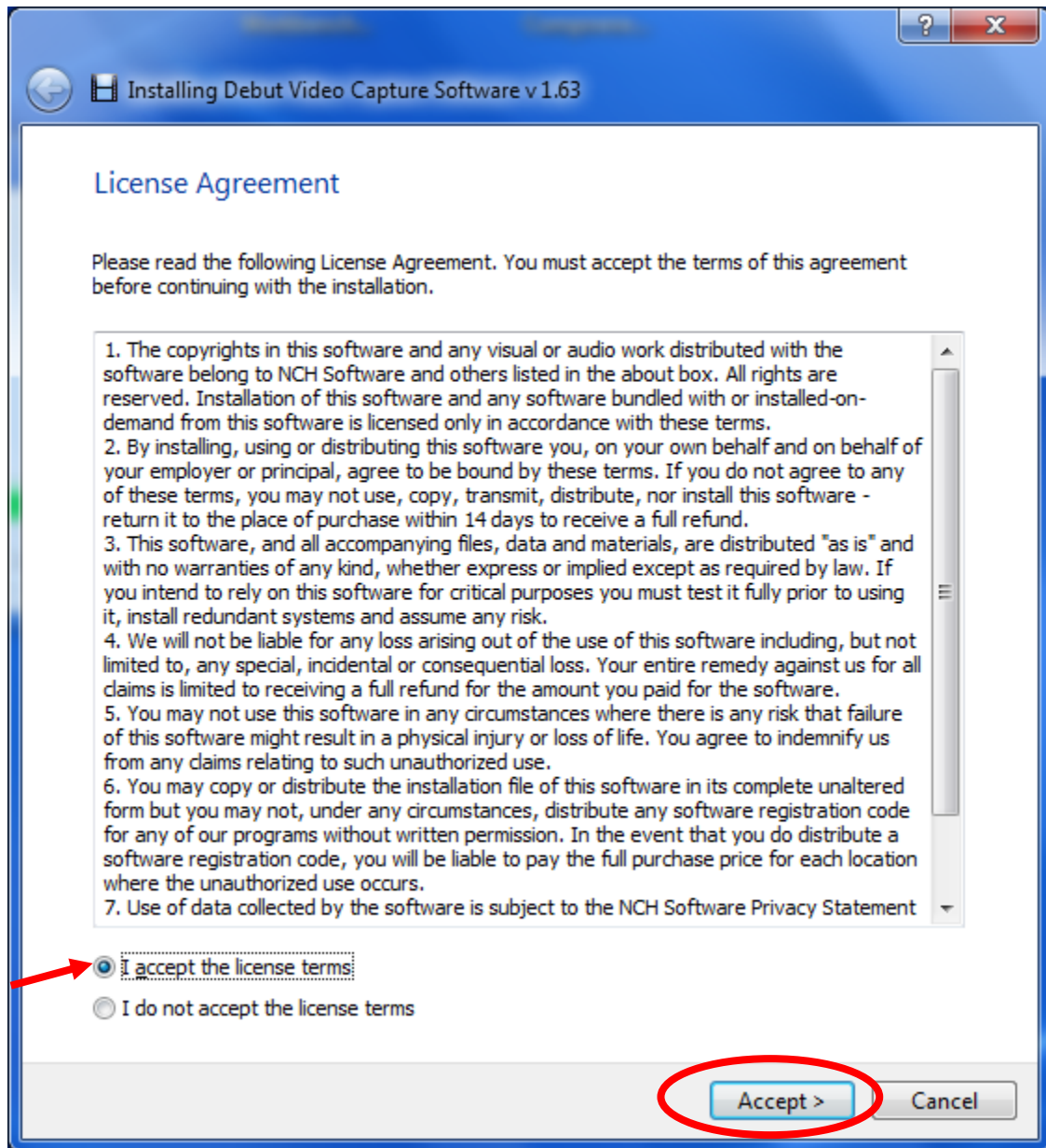


Figure 27

24. "Installing Debut Video Capture Software v1.63" window changes as shown in Figure 28. Uncheck "NCH Software Internet Brower Toolbar". Click "Finish" to continue.

Note: the listed related programs and extras are NOT related to Vantage Plus Digital and they are chargeable. Please do not check any check box for Vantage Plus Digital.

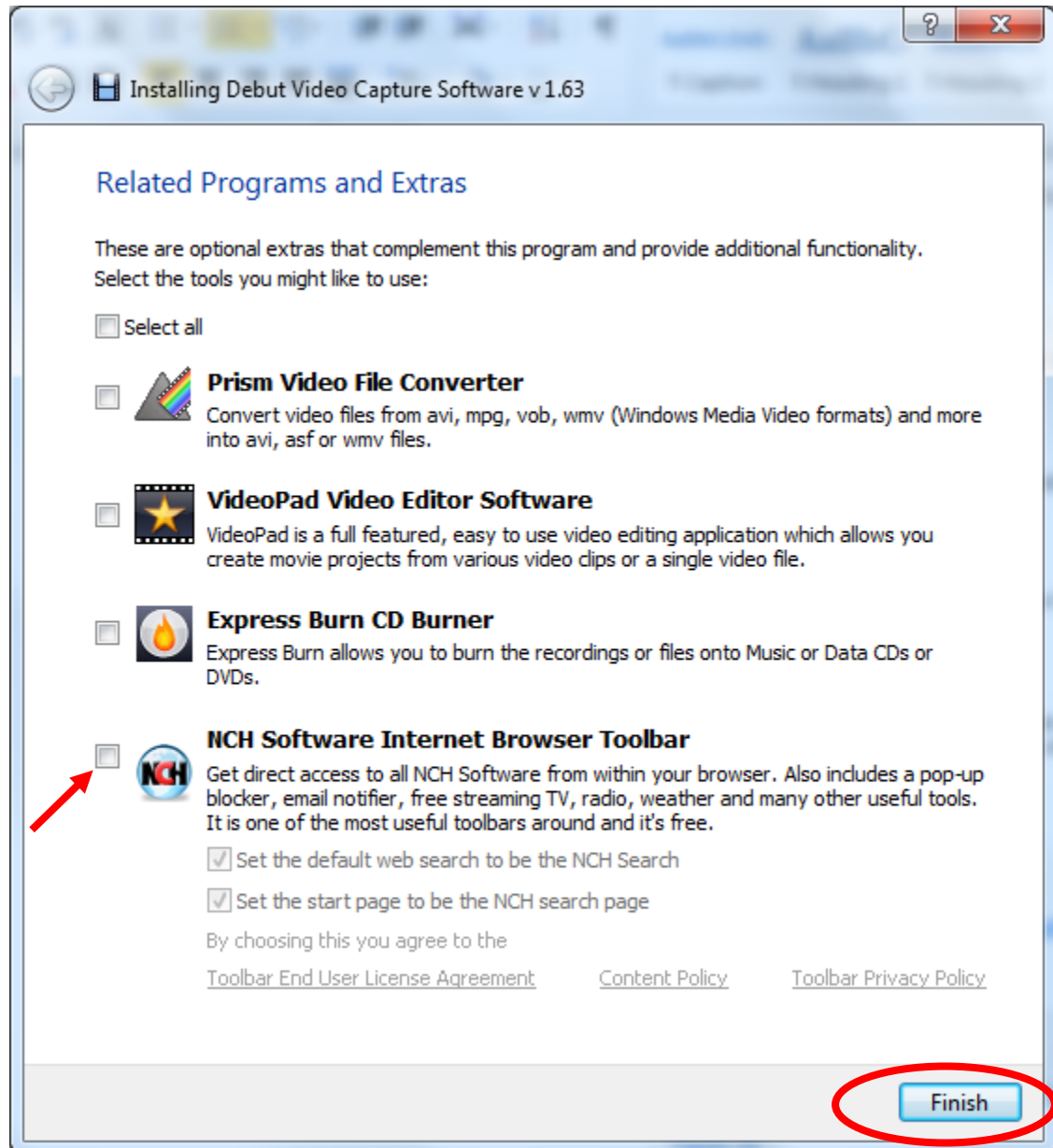


Figure 28

25. A new window “Debut Video Capture Software” will appear as shown in Figure 29.

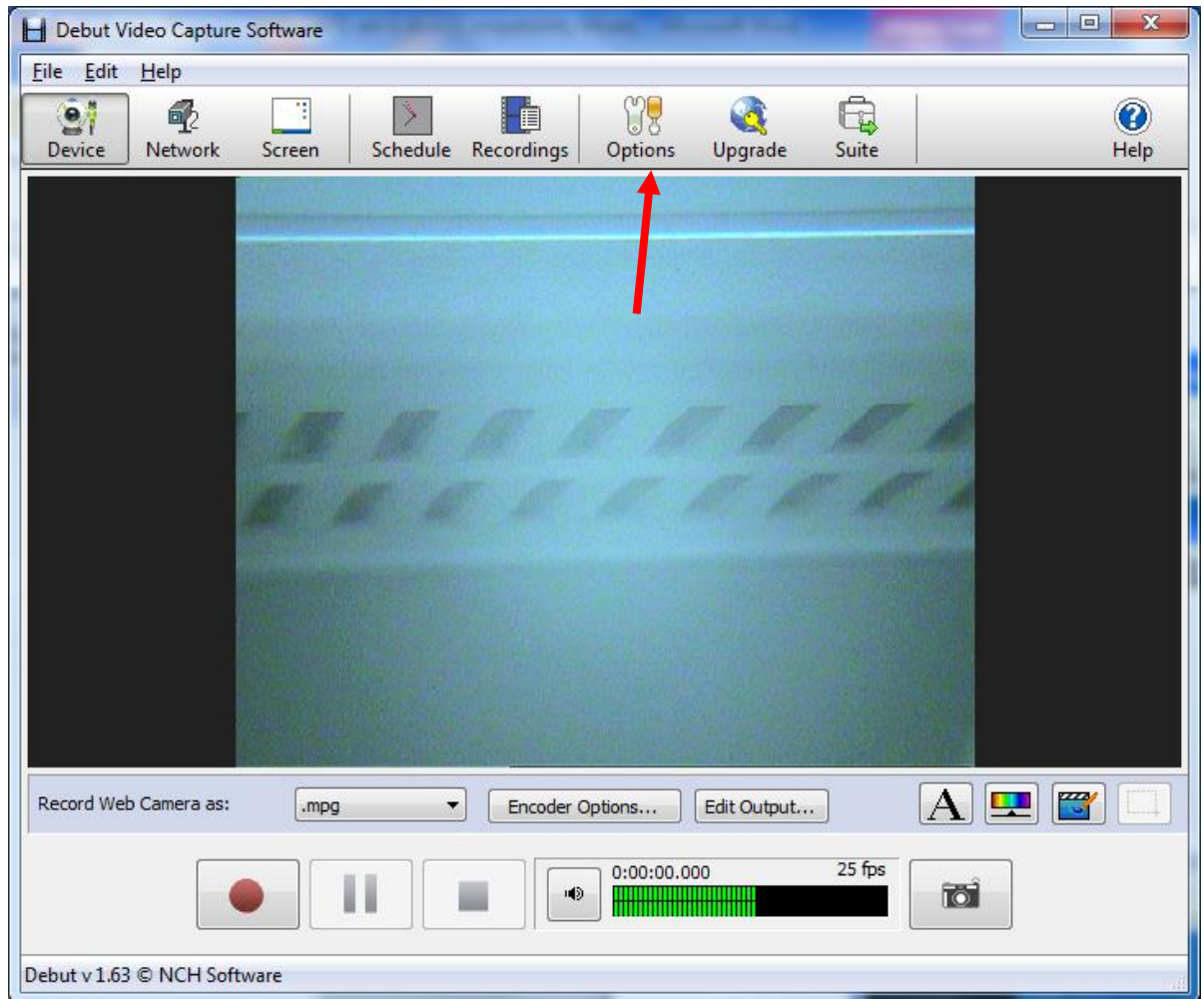


Figure 29

26. The window titled “Keeler Vantage Digital EV02 Installation” will confirm the successful installation of the program as shown in Figure 30. Click on the “Close” button to complete the installation. Leave the “Debut Video Capture Software” window open for the following software configuration.

Note: Debut Video Capture Software is a licensed package. You will need to enter the license code attached to the CD to use the software beyond initial use.

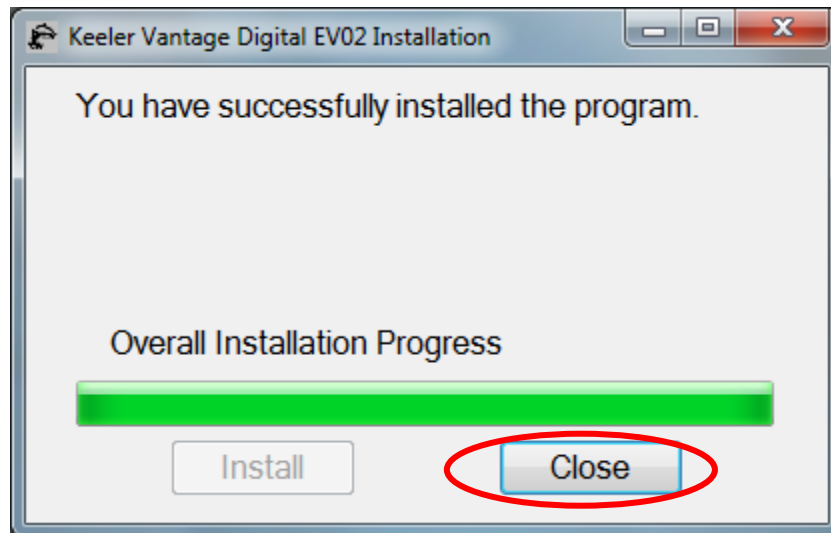


Figure 30

Software configuration

Setup camera properties

1. Click "Options" as shown in Figure 29 to open the "Options" window as shown in Figure 31.
2. Click the "Devices" tab and change the settings as follows:
 - a. Check the "Webcam / Capture Device";
 - b. In the "Name" box, select the "KS722OUP";
 - c. In the "Format" box, select "720x576. 25.00 fps, YUV";
 - d. Tick the "Deinterlace video";
 - e. Click the "Device Settings" button to set up camera properties.

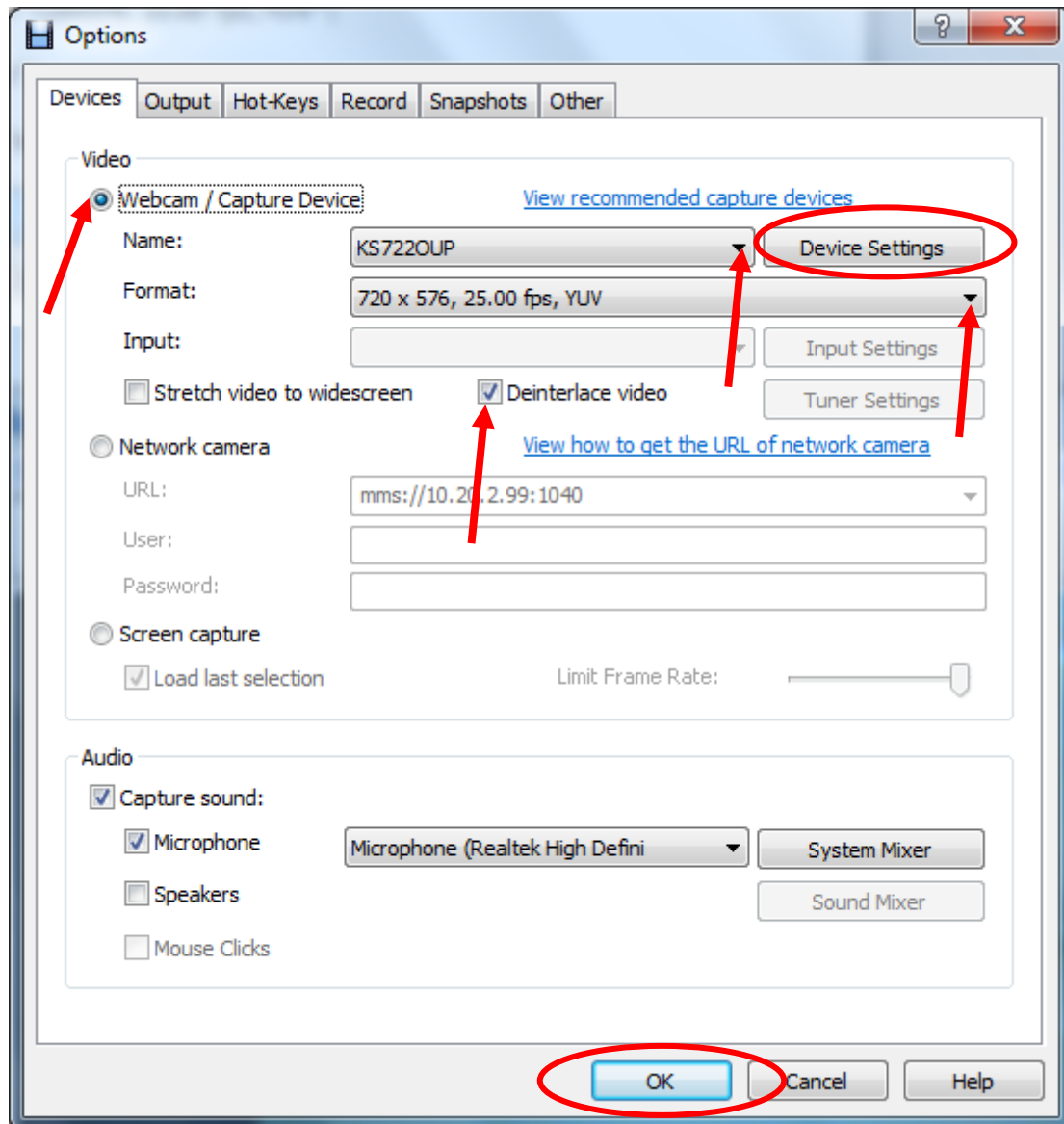


Figure 31

3. A popup window appears as shown in Figure 32. Click on the “Change Device Settings” button to continue.

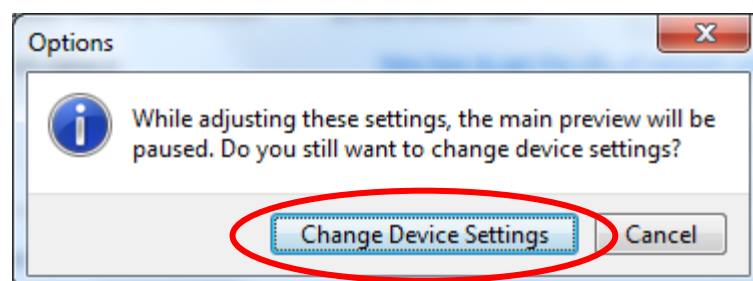


Figure 32

4. Set the camera properties as shown in Figure 33. Click “OK” to save settings and close the “Properties” window.

5. Click on the "OK" button to close "Options" window (refer to Figure 31).

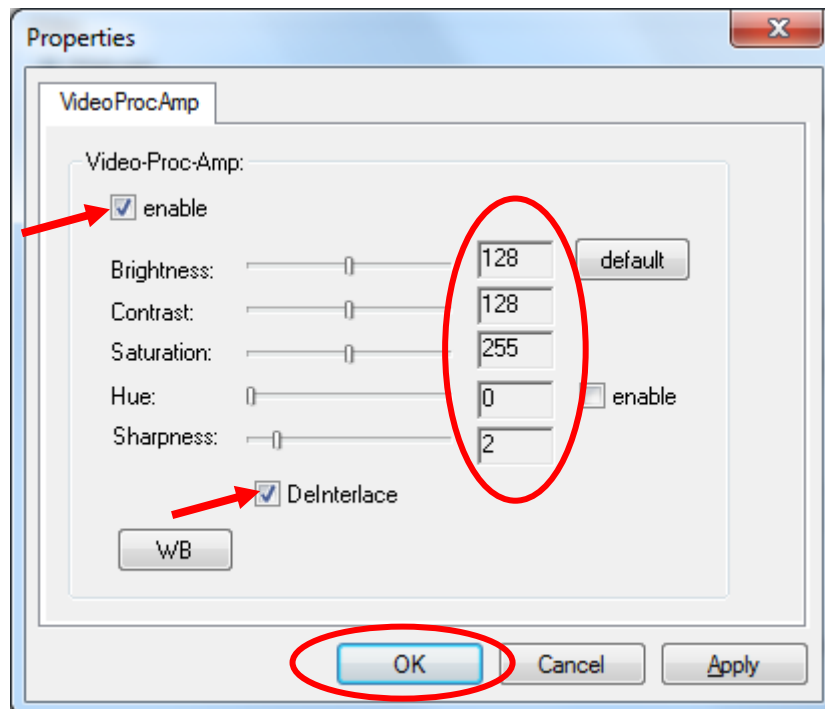


Figure 33

Software re-installation

Introduction

If you need to re-install the software for any reason, please follow the steps below:

Reinstallation

1. Run "Setup.exe" from the Disc. A "Keeler Vantage Digital EV02" window appears as shown in Figure 34. Check "Repair Keeler Vantage Digital" and click "Finish".

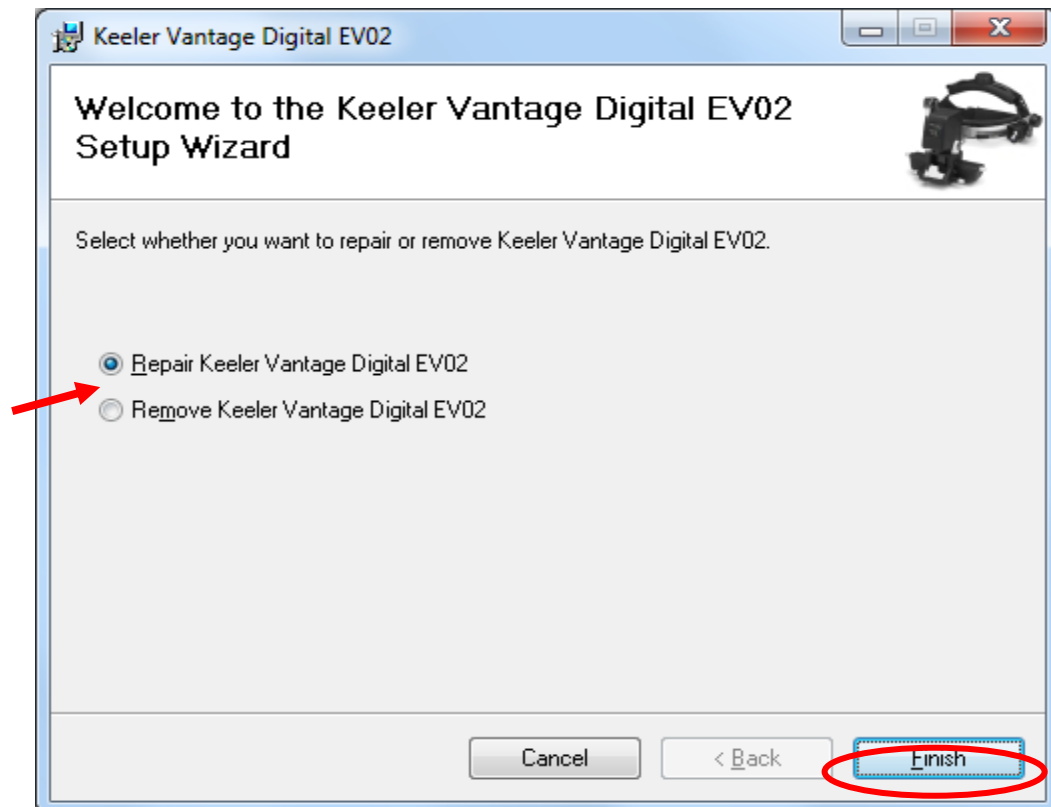


Figure 34

2. Wait until "Keeler Vantage Digital" window changes as shown in Figure 35 and click "Close".

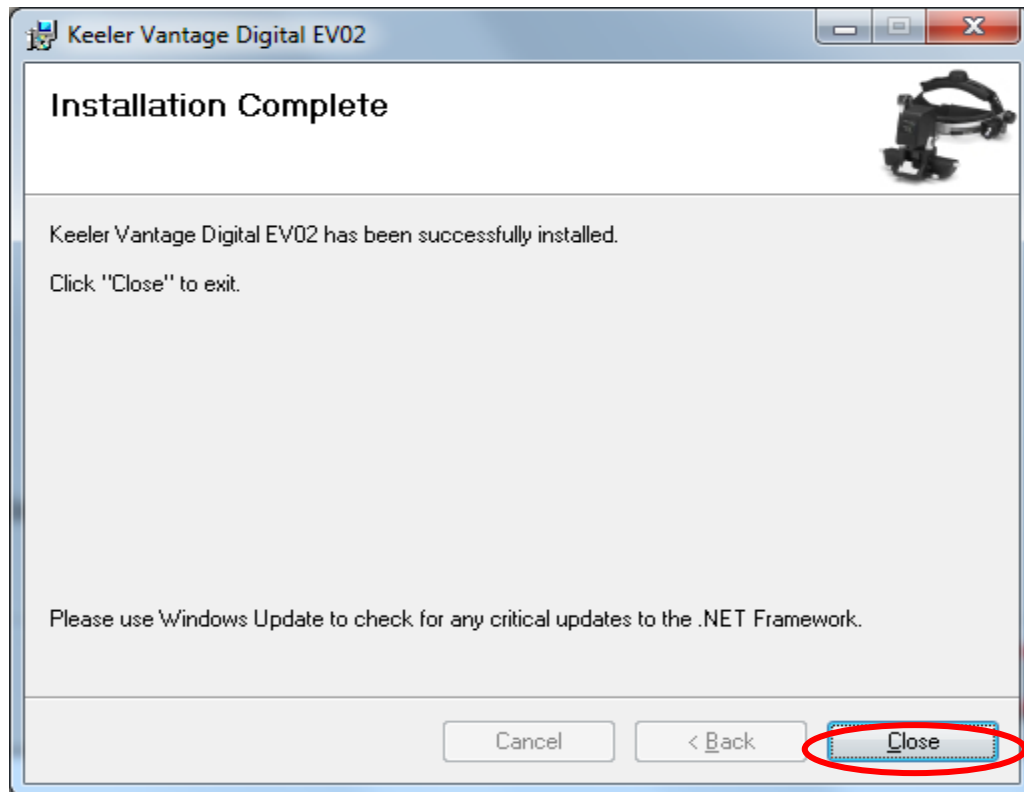


Figure 35

3. A new window appears as shown in Figure 36. Click "Install" to continue.

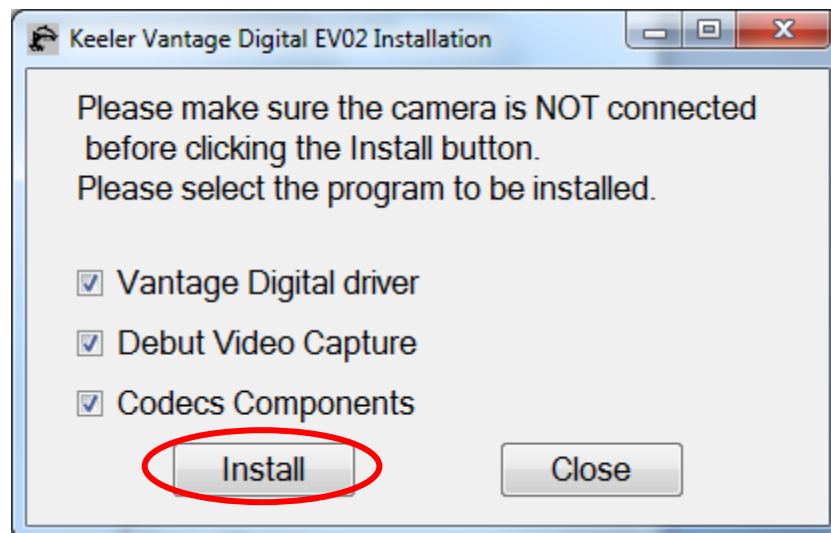


Figure 36

4. Follow the steps in Install Vantage Digital driver (page 14), Install Vantage Digital camera (page 18) and Install Debut Video Capture software (page 24) sections to complete the reinstallation.
5. Redo all the steps in the Software configuration section (page 28).

All About Debut Video Capture

Introduction

This section is a guide on using Debut Video Capture, covering all aspects you will require to use the software.

Debut Professional Software Activation

Below is a step by step guide to activate the Debut Video Capture software. Please refer to the note on Page 27 of the user instructions (Software Setup & Quick Start Guide). Follow each step carefully.

Activation Steps

1. Click on “File” and navigate to the “Register Software” tab (Figure 37)

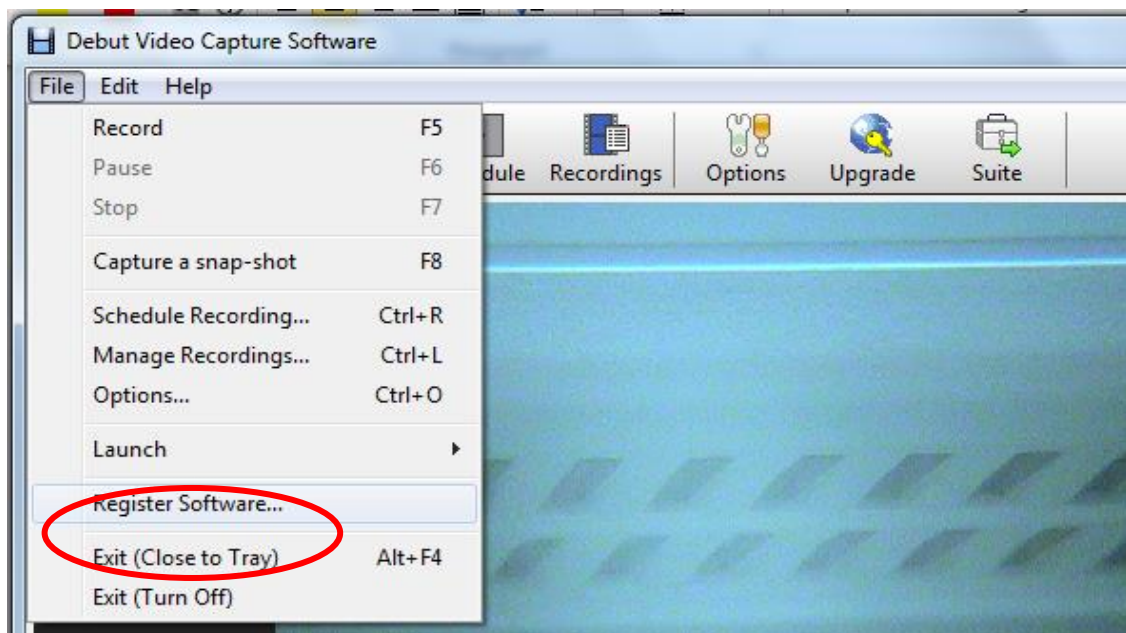


Figure 37

2. The Debut Video Capture Software Registration window will appear (Figure 38).

Register Software Debut Video Capture Software

Step 1: Purchase Online

The paid version of the software will allow you to use all features for unlimited time. To purchase the paid version of the software, please click on the below link.

[Purchase License Online](#)

Step 2: Activate Serial Number

After purchase, you need to activate your 12 digit serial number which will be supplied to you on the screen and by email. If you have not done so, please click on the below link.

[Activate Online](#)

Step 3: Enter the license details

Enter the registration details EXACTLY as they appear on activation and sent by email.

Name (or Business Name):

Location:

Debut ID - Key: -

OK Cancel Help

Figure 38

3. Follow the three steps (as in Figure 38) below to complete activation:

Step 1: Purchase License Online (Skip this step, see details below)

A 12 digit serial number has been affixed onto the Vantage Plus Installation CD. Continue with Step 2.

Step 2: Activate Serial Number

Follow the “Activate Online” link which will direct you to the NCH software activation website (Figure 39). Enter the 12 digit Serial Number in the “License Serial Number” tab and complete all the other fields.

Once the form is submitted, the website will provide the “Debut Video Capture Software ID – Key” in the following format: e.g. 123456 – xdhfnekf. The registration details will also be e-mailed to the e-mail address entered by the user.

Home | Support | Product

Activate Software

Use this form to register the user details for a software license and obtain a software activation key.

License Serial Number

This is the 11- or 12-digit number issued when you purchased.

Your Details

Your Name:

Your Email Address:

Registration Details

Business Name:

If you do not run a business enter your own name.

Street Address:

City - State/Province - Post Code:

Country:

End User's Name:

End User's Email Address:

Take care: If the license you purchased was a non-transferable user license the software will be locked to the above user name and email address and cannot be changed later. This is not applicable to other license classes.

Figure 39

Step 3: Enter the License Details

Return to the Debut Video Capture Software Registration window and fill in all sections of the form (Figure 38) i.e. Name, Location & Debut ID – Key (provided in Step 2). Press “OK” to continue. The product is now fully licensed for use.

Debut Video Capture Software

The Debut Video Capture Software enables you to take still pictures and take video recordings. Below is a run down of all buttons and icons required to take still pictures and video recordings. Refer to Figure 40. You will get details of all the help information by pressing F1 key.

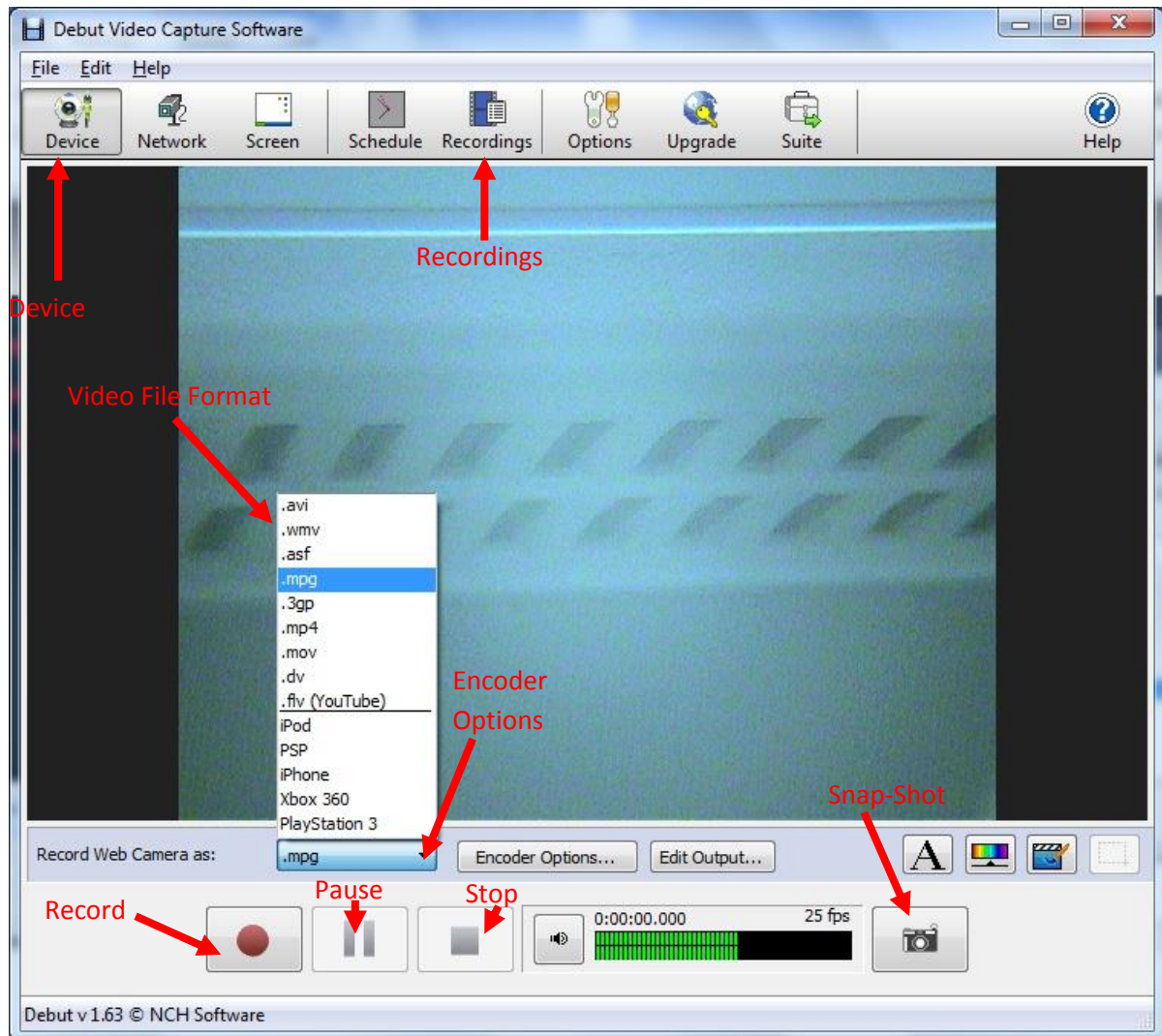


Figure 40

Device



Clicking on "Device" will enable you to view the image from the Vantage Plus Digital Indirect Ophthalmoscope.

Snap-Shot



Allows you take a still picture (like a normal camera). Click on the button to take a picture. Also works while recording a video.

Recordings (Ctrl + L Button on the Keyboard)



Is an area where all still pictures and video recordings are stored. Click on the button to view all videos and snap shots previously taken.

Record (F5 Button on the Keyboard)



Will commence video recording. Click on the button to start a new recording.

Pause (F6 Button on the Keyboard)



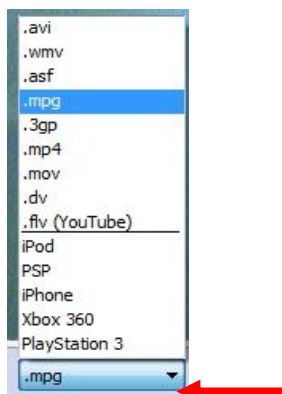
Will temporarily suspend recording, until resumed by pressing record.

Stop (F7 Button on the Keyboard)



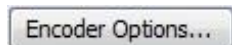
Will permanently stop the current video recording, until it is started again.

Video File Format



This allows you to choose any specific file format you may wish to record in, we recommend that you use “WMV” as this is the default format used by Windows Media player. You can choose your file format by clicking on the drop down menu and select “.wmv”

Encoder Options



This varies with the Video File format you selected. If the video file format “.wmv” is selected, it will pop up a “Windows Media Encoding Settings” window as Figure 41, which allows you to choose any specific Video and Sound compressor, Video Bit rate and Sound format to record. We recommend that you use highest video bit rate (8192) to achieve highest video image quality.

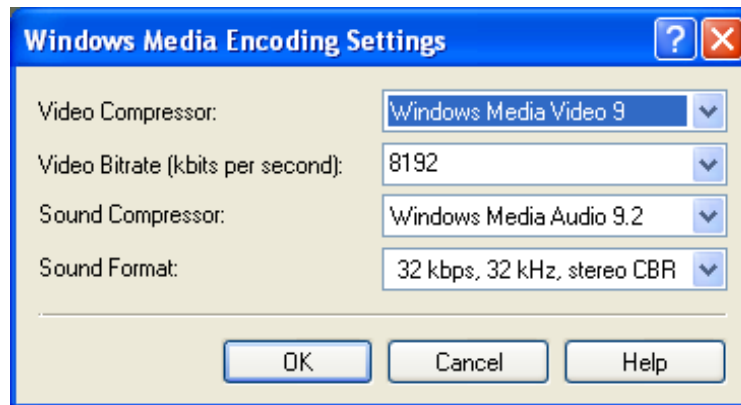


Figure 41

Update Debut Video Capture Software

Debut Video Capture Software version 1.63 has been installed in this package. You may go to the URL: <http://www.nchsoftware.com/capture/versions.html> to update to the latest version if you wish.

Setting up your Accessories

Remote or Foot Switch



EP79-06359



1205-P-7001

Introduction

Below is a quick setup guide to installing your remote control/ foot switch. This process is broken down step-by-step on how to setup **ONE** button on the remote/foot switch; this process needs to be repeated **FOR EACH** switch you wish to use. Follow each step carefully.

IMPORTANT: If your accessory is a remote control please refer to the accompanied product's User Guide on how to insert the battery and how to connect the USB receiver to the pc.

1. Once the device is plugged into the PC open up Debut Video Capture Professional and Follow the instructions below.
2. Click on the "Options" icon as shown in Figure 42

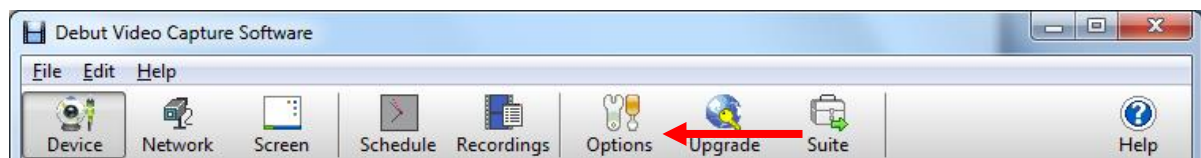


Figure 42

3. A new window will appear as shown in Figure 43. Click on the "Hot-Keys" tab as indicated by the arrow.

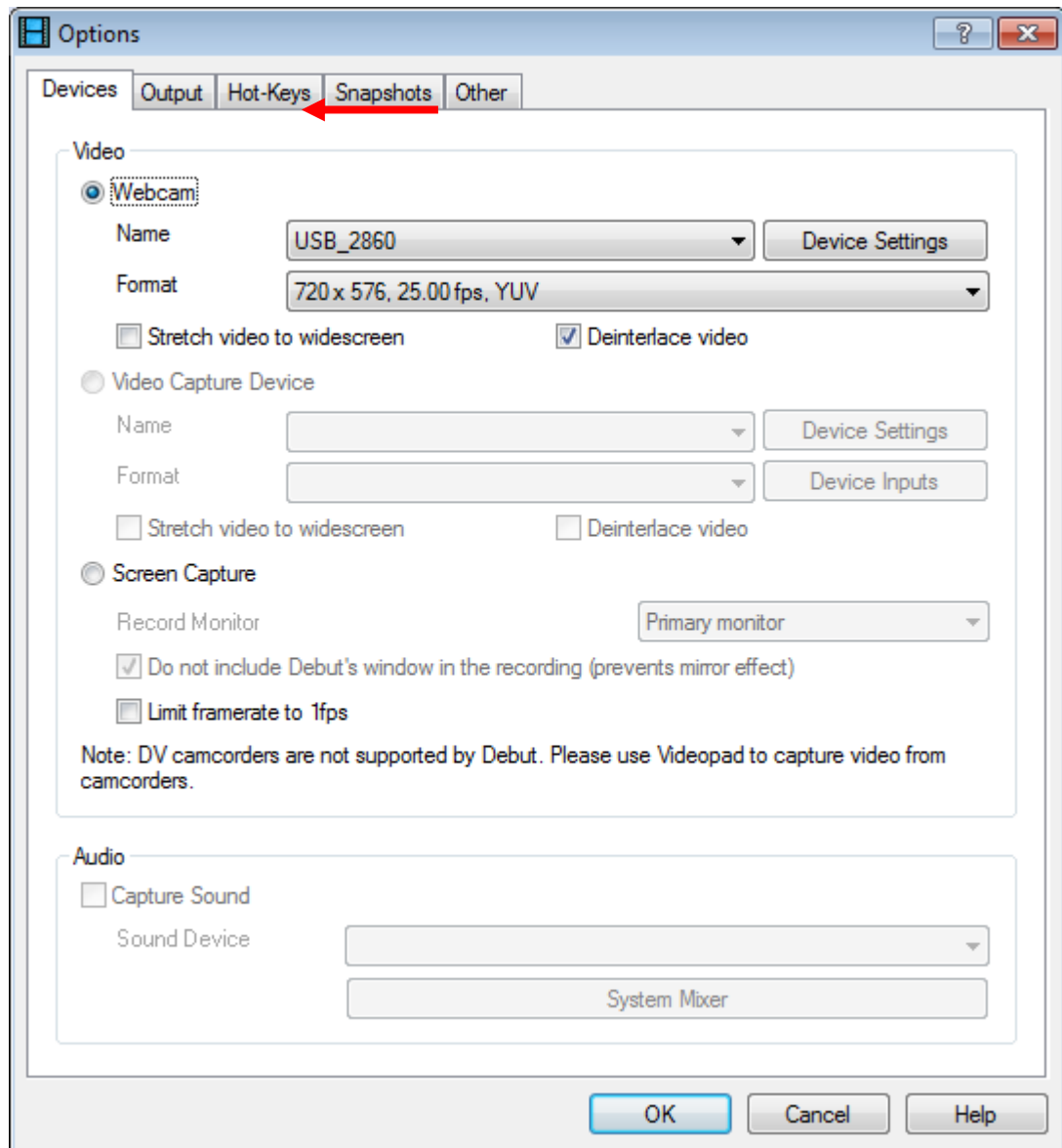


Figure 43

4. Click on the “Add” button as indicated by the arrow. Refer to Figure 44.

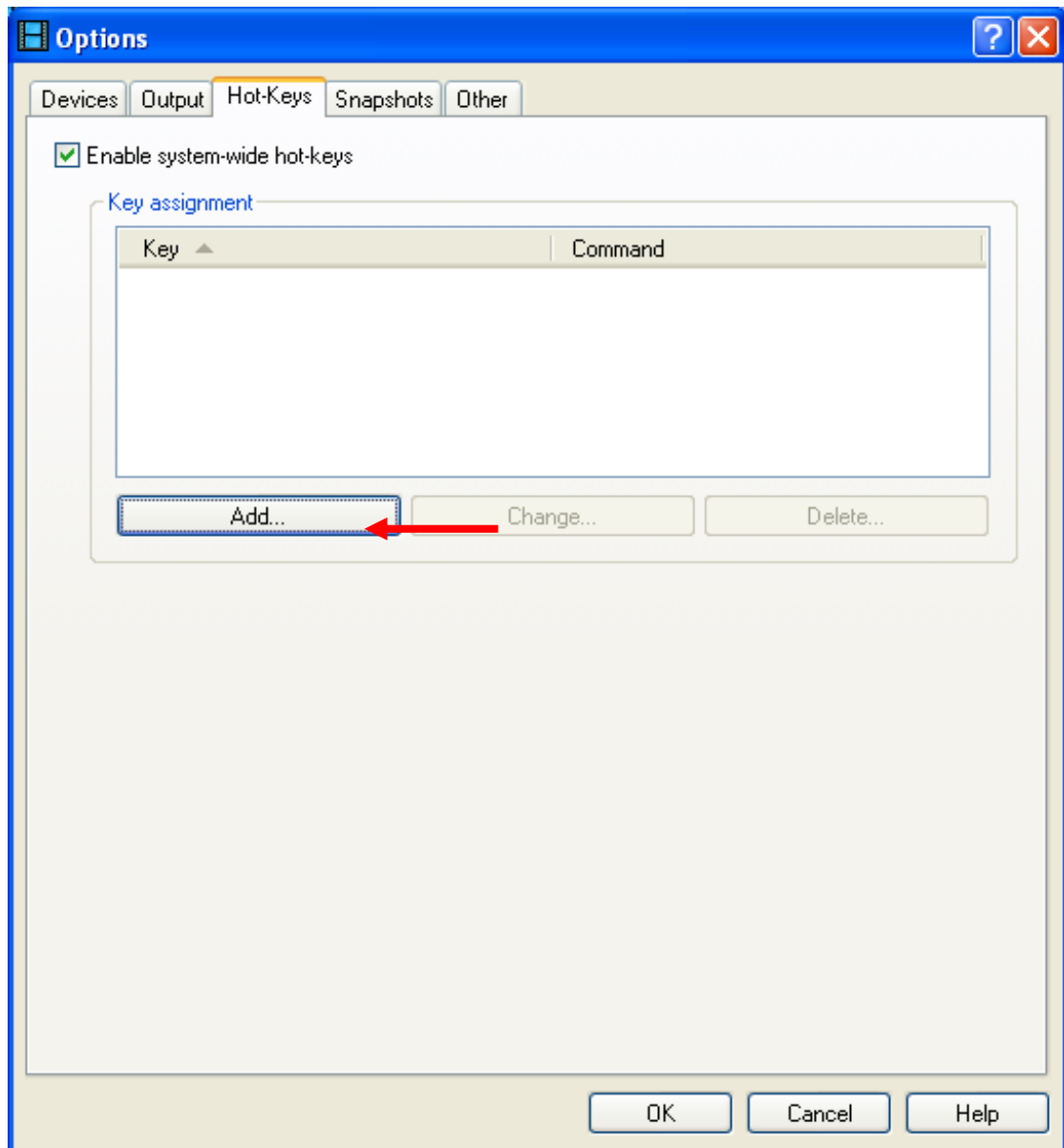


Figure 44

5. A new window called "Add New Hot-Key" should pop up as shown in Figure 45. Select a command from Command list box (Red arrow) and then click "Change..." button.

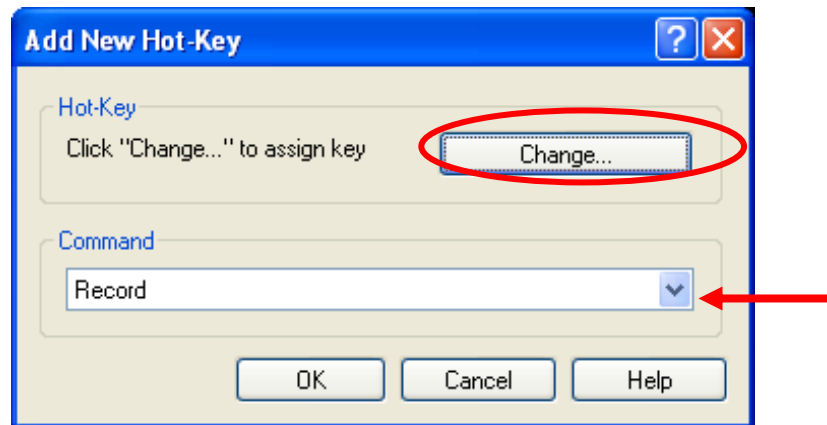


Figure 45

6. A new window called "Press Key" should pop up as shown in Figure 46. Click on "an appropriate button" of your choice on the remote/footswitch.

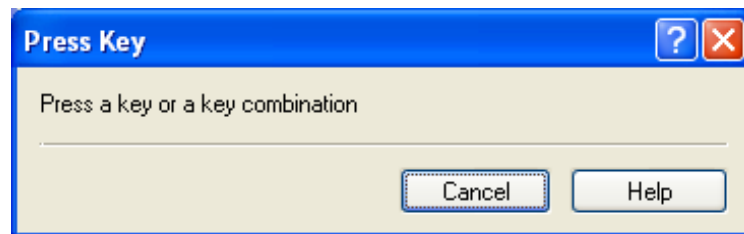


Figure 46

7. Once you have clicked on "an appropriate button" of your choice on the remote/footswitch you should see the selected Key has been displayed in the window as shown in Figure 47, click "OK" as indicated by the arrows.

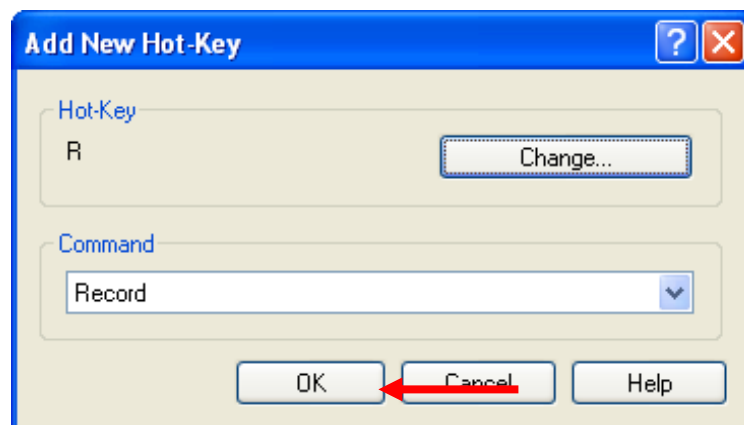


Figure 47

8. Once you have clicked on "OK" you should see a screen as shown in Figure 48, as you can see from the picture below you have setup your first button "**Record**" as indicated by the circle.

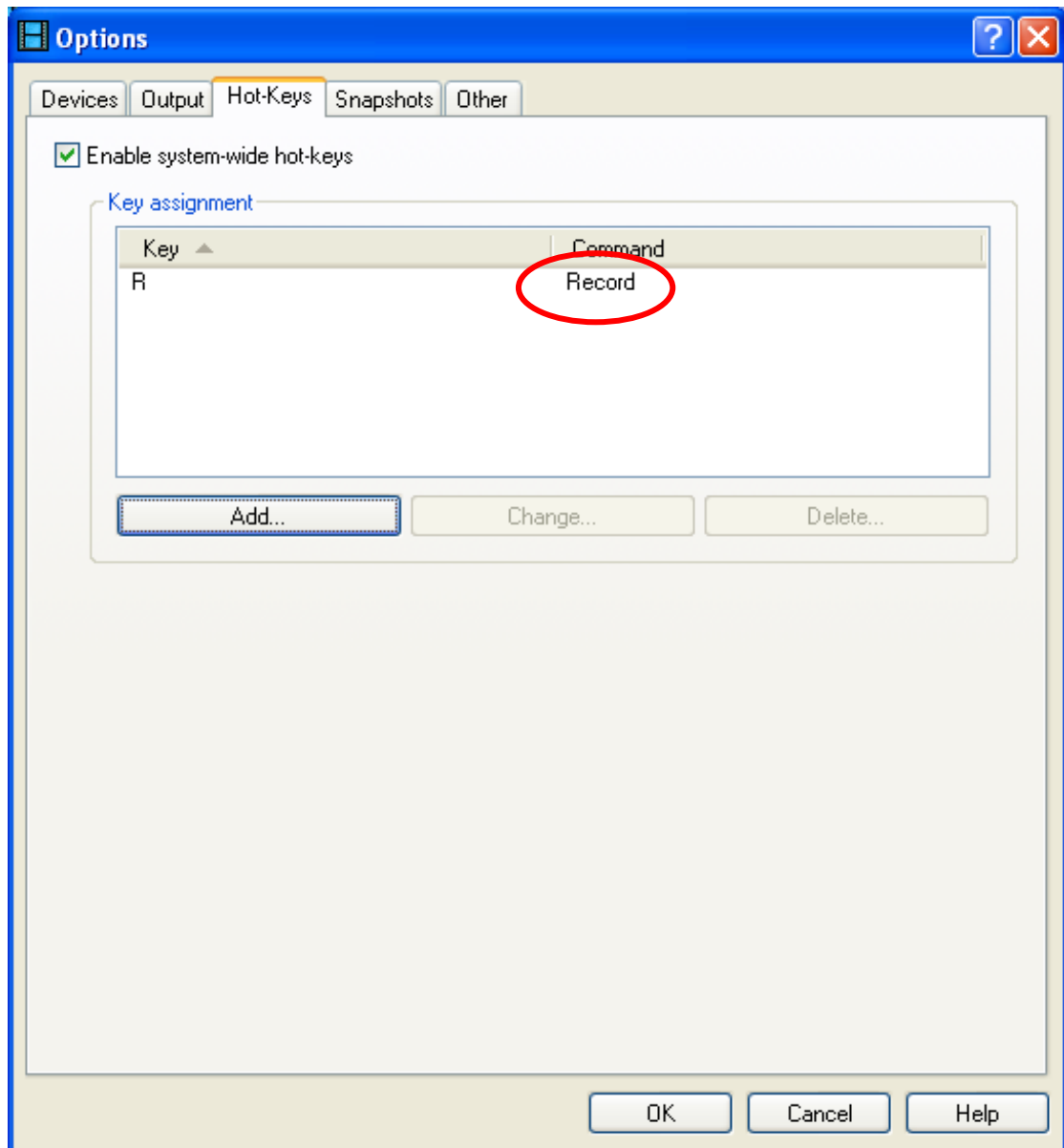


Figure 48

9. Click on the “Add” button shown in Figure 49 to setup up the next switch as indicated by the arrow and follow steps 5 – 9 until you have setup all the buttons you require.

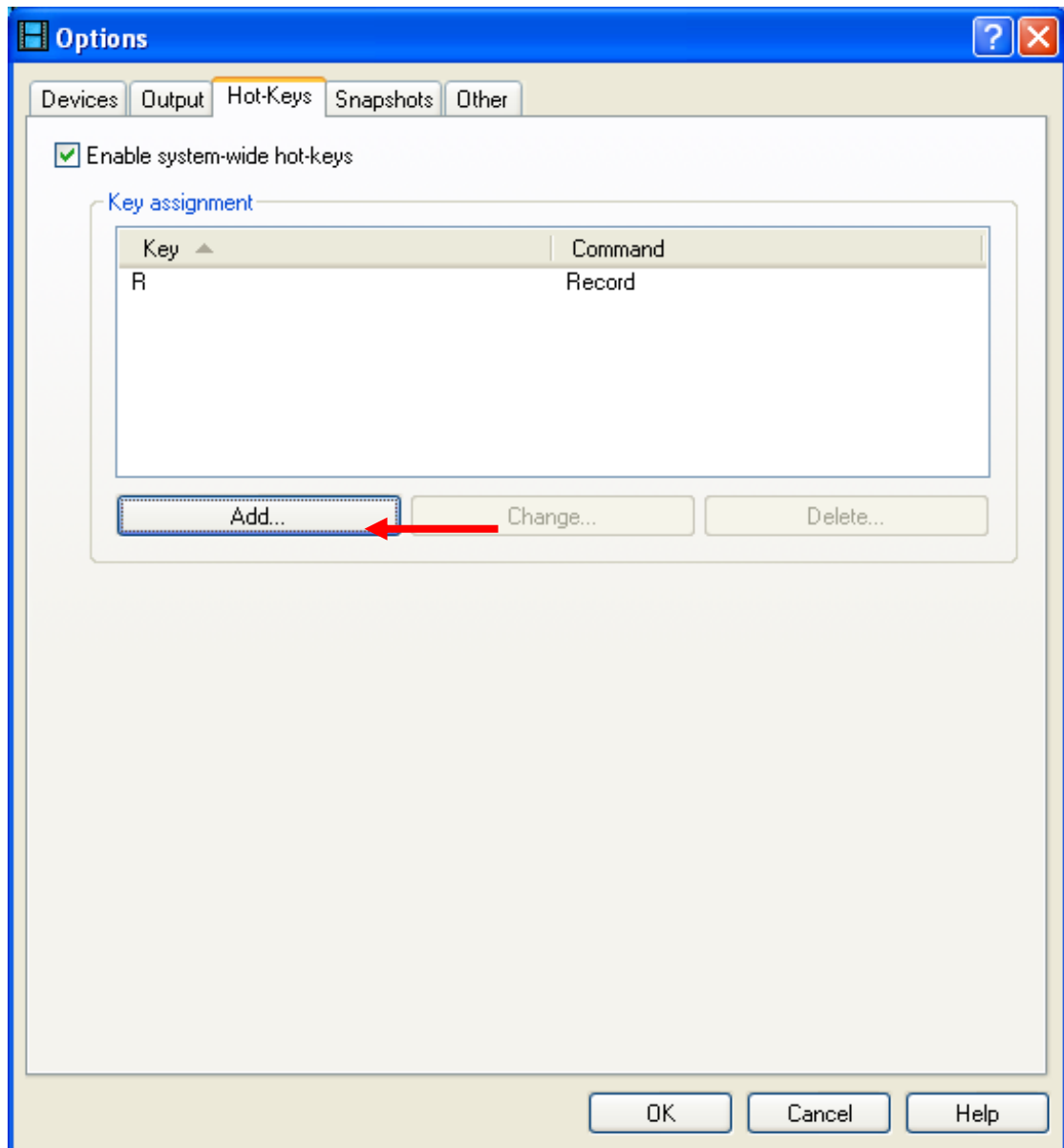


Figure 49

10. Once you have setup all your buttons, e.g. **Snap shot, Record, Pause, and stop** you should see a screen as shown in Figure 50 with all the buttons listed as indicated by the circle. Click on "OK" to complete the setup.

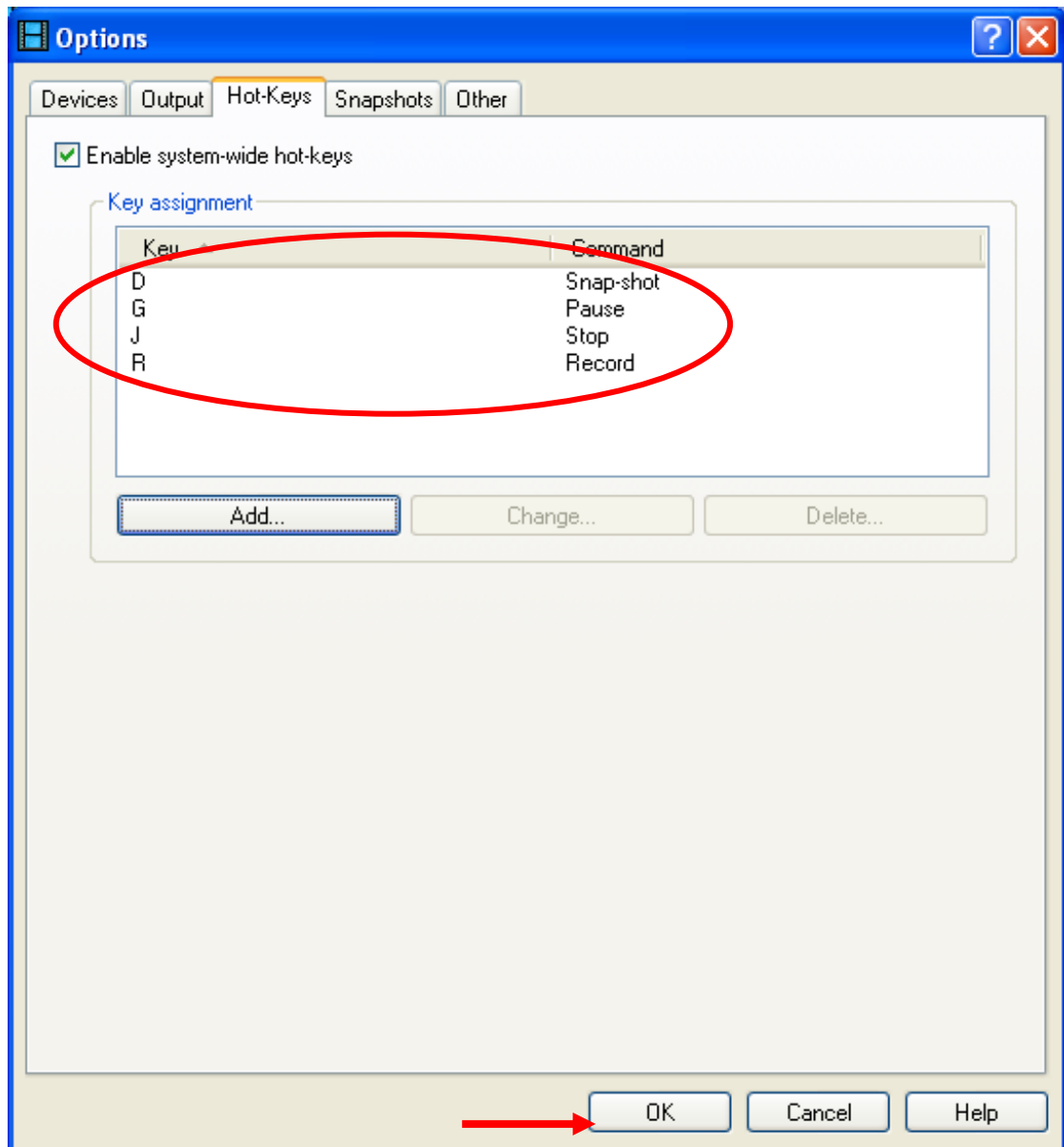


Figure 50

Troubleshooting Guide

When I reinstall the program from disc, the windows operating system asks to restart computer. What can I do for it?

When reinstalling the program, a “Microsoft Windows” message appears as Figure 51 occasionally. You should select “Restart Later” to complete the installation. After completing the installation, please restart your computer.

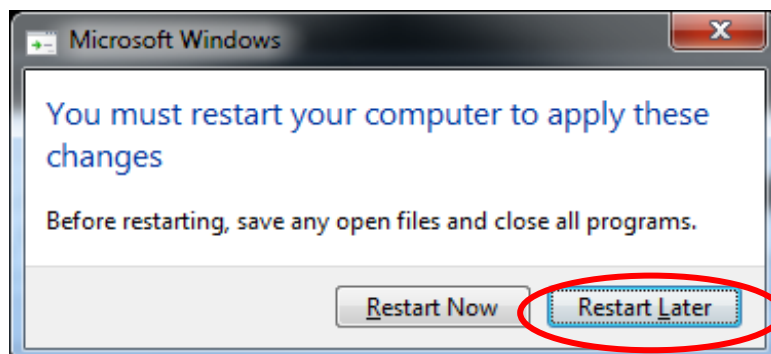


Figure 51

When installing Debut Video Capture software, a warning message of “No capture devices are detected” appears. What can I do?

In the Vantage Digital installation procedure, after clicking the “Next” button on Installing Debut Video Capture Software v1.63, there is a warning message window that pops up as Figure 52. In fact the Vantage Digital camera has been plugged in. Click on “Skip” button on “debut Video Capture Software” and Click on “Finish” button on “Installing Debut Video Capture Software v1.63” window to complete the installation. The installation has been done successfully, but the Debut Video capture software does not work because no Vantage Digital camera device has been found. To solve the problem:

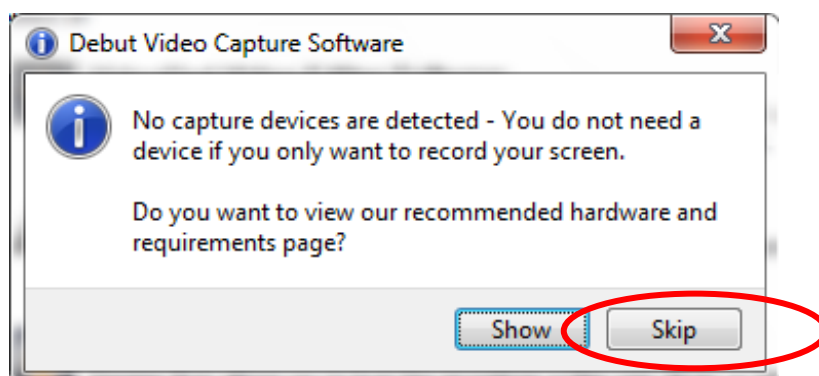


Figure 52

1. Open the Device Manager and look at the Imaging devices. You will see it as Figure 53.

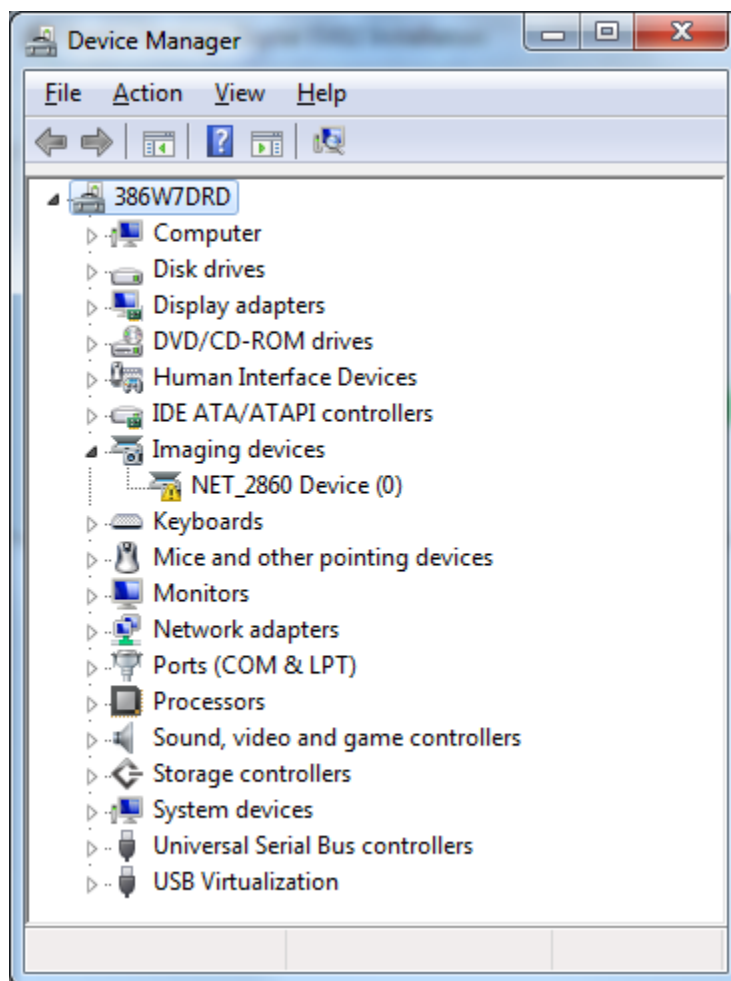


Figure 53

2. Highlight "NET_2860 Device (0)". Click right button on the mouse and then click on the "Uninstall" button (Figure 54)
3. A "Confirm Device Uninstall" window appears as shown in Figure 55. Uncheck "Delete the driver software for this device". Click on the "Ok" button to continue.
4. Unplug the Vantage Digital camera. Wait about 10 seconds and plug in the Vantage Digital camera. Window saying "found the new hardware" will appear and install the driver for the camera. Please follow the steps in the section of Install Vantage Digital camera (page 18) to complete the camera installation.
5. Run "Debut Video Capture software" and select the Vantage Digital camera.

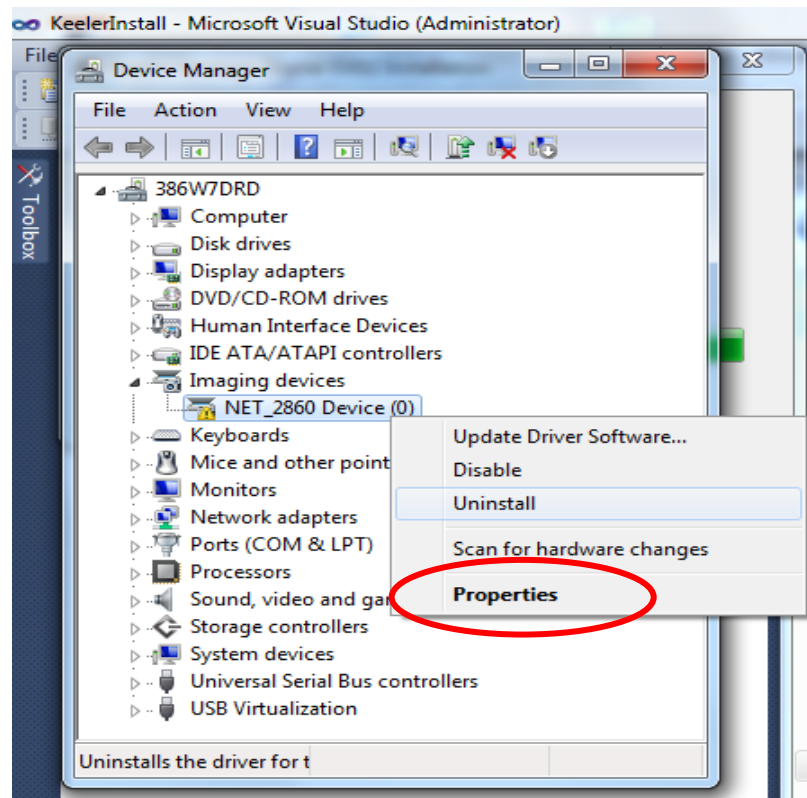


Figure 54

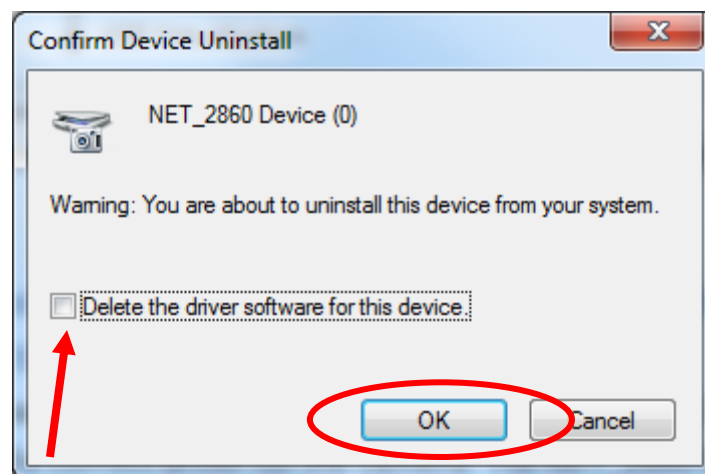


Figure 55

What can I do for the message “Another version of this product is already installed”?

If your computer has a previous version “Keeler Vantage Digital EV02” setup program installed and has not been uninstalled before the installation, the error message will appear as shown in Figure 56 or Figure 57. To uninstall the previous “Keeler Vantage Digital EV02”, please refer to the steps in Run Vantage Digital EV02 Uninstall program (page 71).

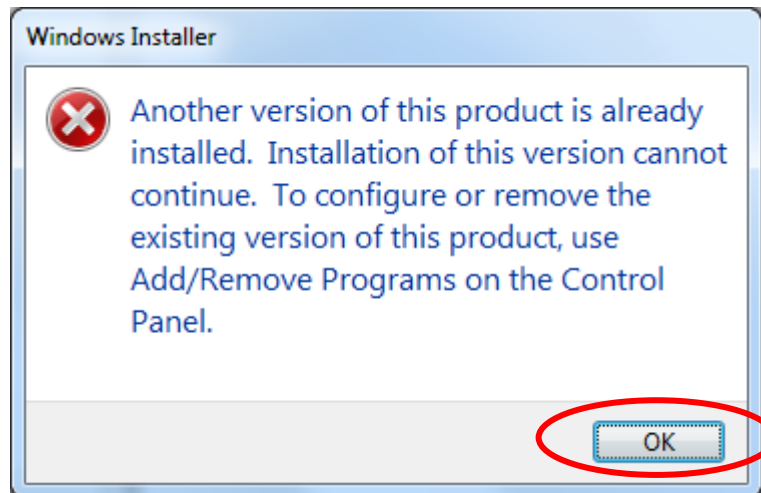


Figure 56

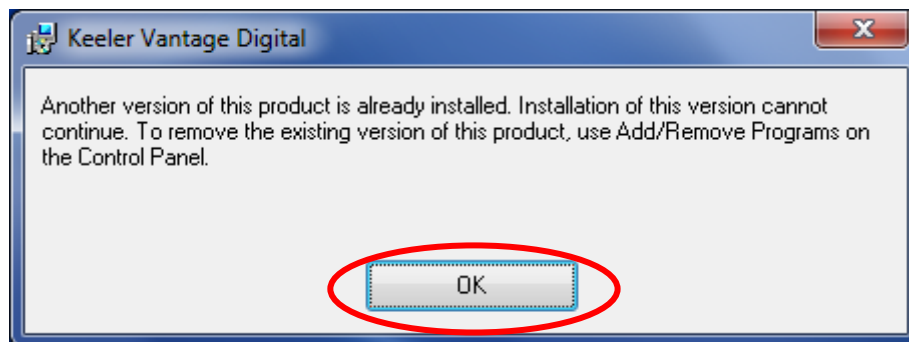


Figure 57

No recorded file has been found in the recorded file folder (Windows 7)

After clicking "Recordings" button to view the recorded video or snap-shot images, a window as Figure 58 pops up. No recorded files are in the folder. Click "Open Folder" in Figure 58, an error message comes out as Figure 59. The problem is an incorrect record destination folder in "Options" "Output" tab. The path may be as "C:\Users**Current user name**\Documents\My Videos". In Windows 7, path "C:\Users**Current user name**\Documents\My Videos" points to a short cut instead of a folder. Change the path as "C:\Users**Current user name**\Videos\Debut" (Figure 60) to correct it.

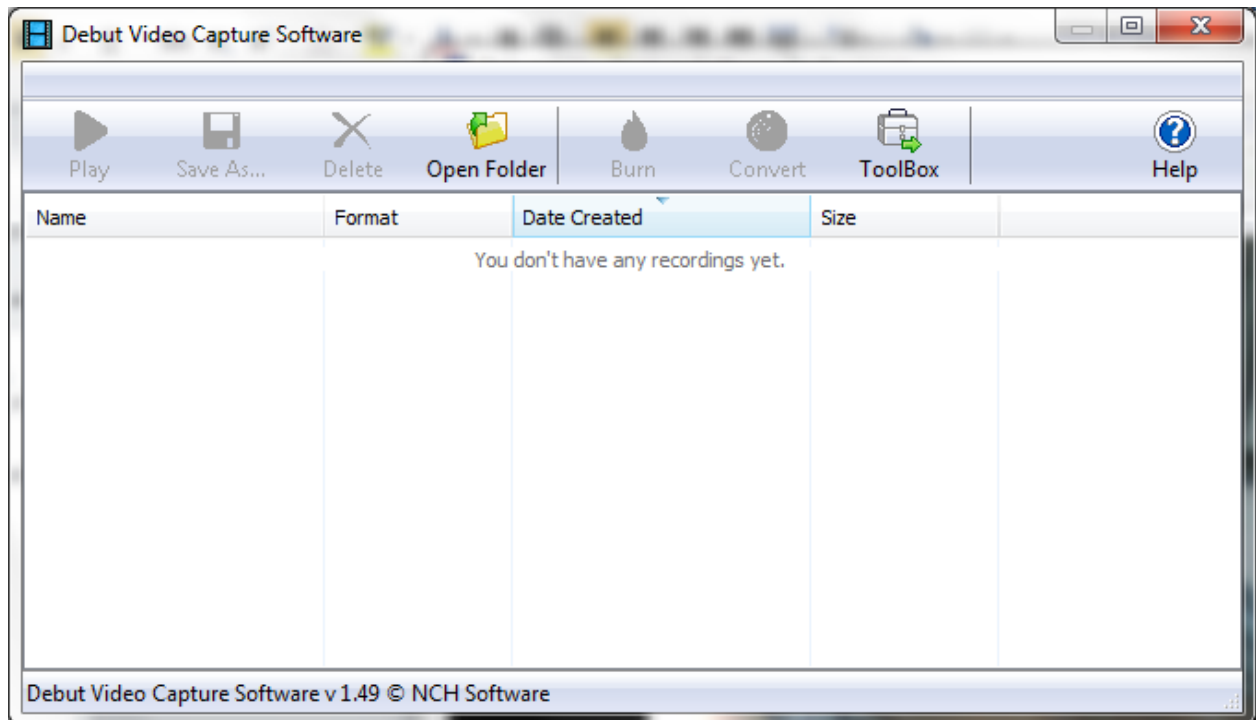


Figure 58

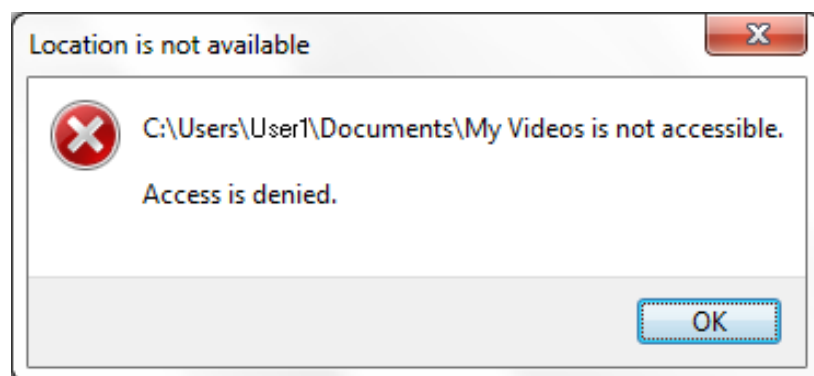


Figure 59

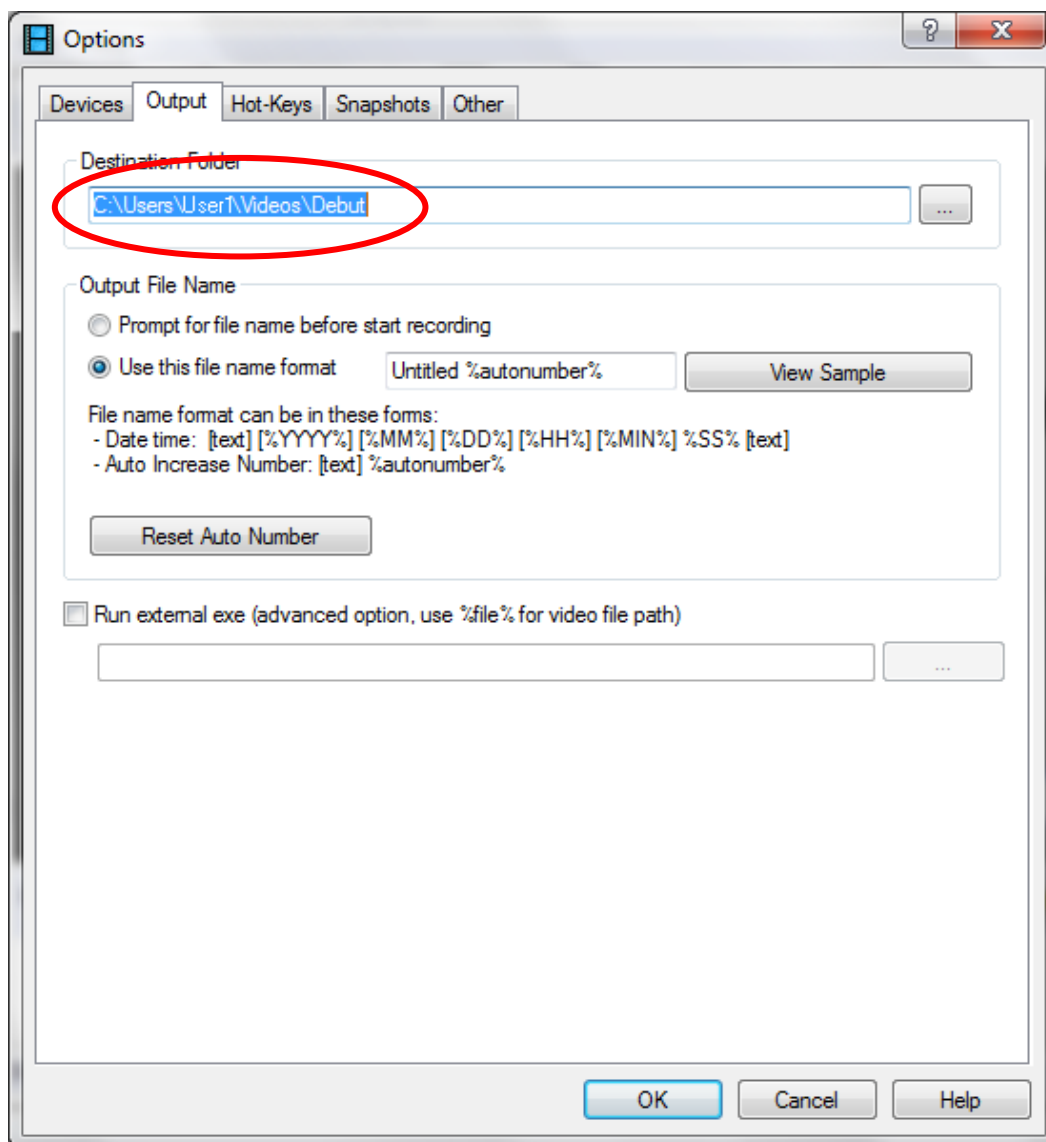


Figure 60

What can I do if experiencing problems with video quality?

If you are experiencing problems with video quality, we have found the following techniques to be effective.

Plug the laptop to the mains power supply

Laptop/Notebook users are highly recommended to plug the laptop to the mains power supply whilst using the hardware, this prevents the laptop from slowing down to save battery.

Try different USB port

Because PC designs differ between manufactures, not all USB ports are suitable for high speed video. If you experience problems, try a different port.

NOTE: PLUGGING THE CAMERA INTO A DIFFERENT USB PORT WILL RESULT IN THE DRIVERS HAVING TO BE RE-INSTALLED.

Select “High Performance” in Power Options**Windows XP**

1. Click “Power Options” in windows control panel to open the power options properties window
2. Select “Always on” from Power schemes list box in the Power Schemes tag of the Power Options Properties window. Refer to Figure 61. Click the “OK” button to close the window.

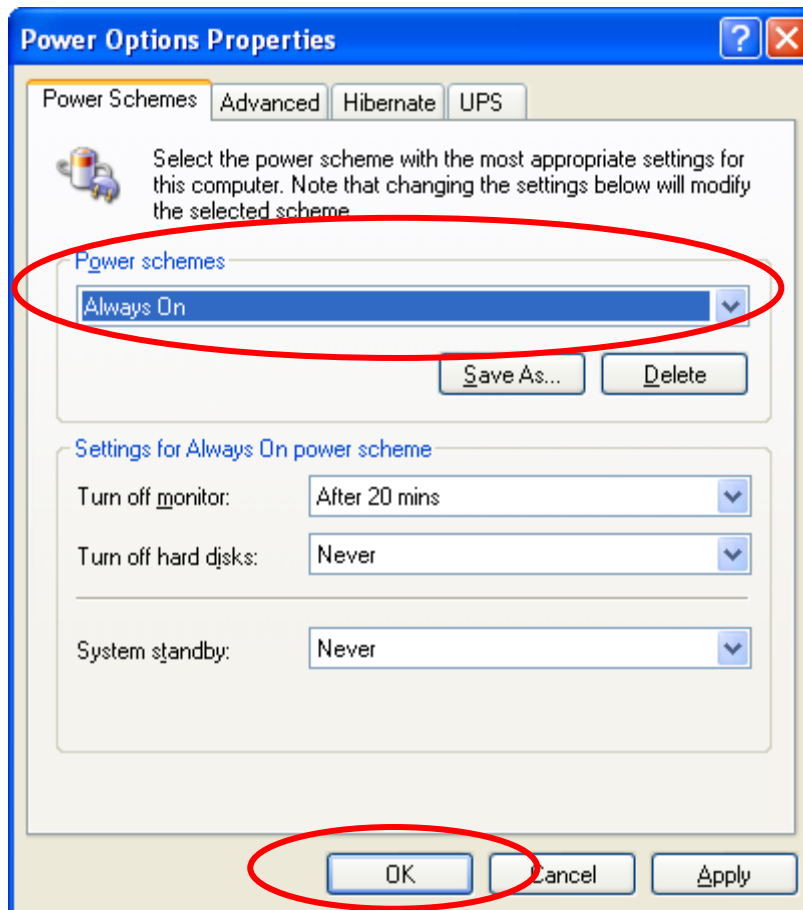


Figure 61

Windows 7

1. Open Control Panel as Figure 62 and click on “System and Security” on Control Panel.

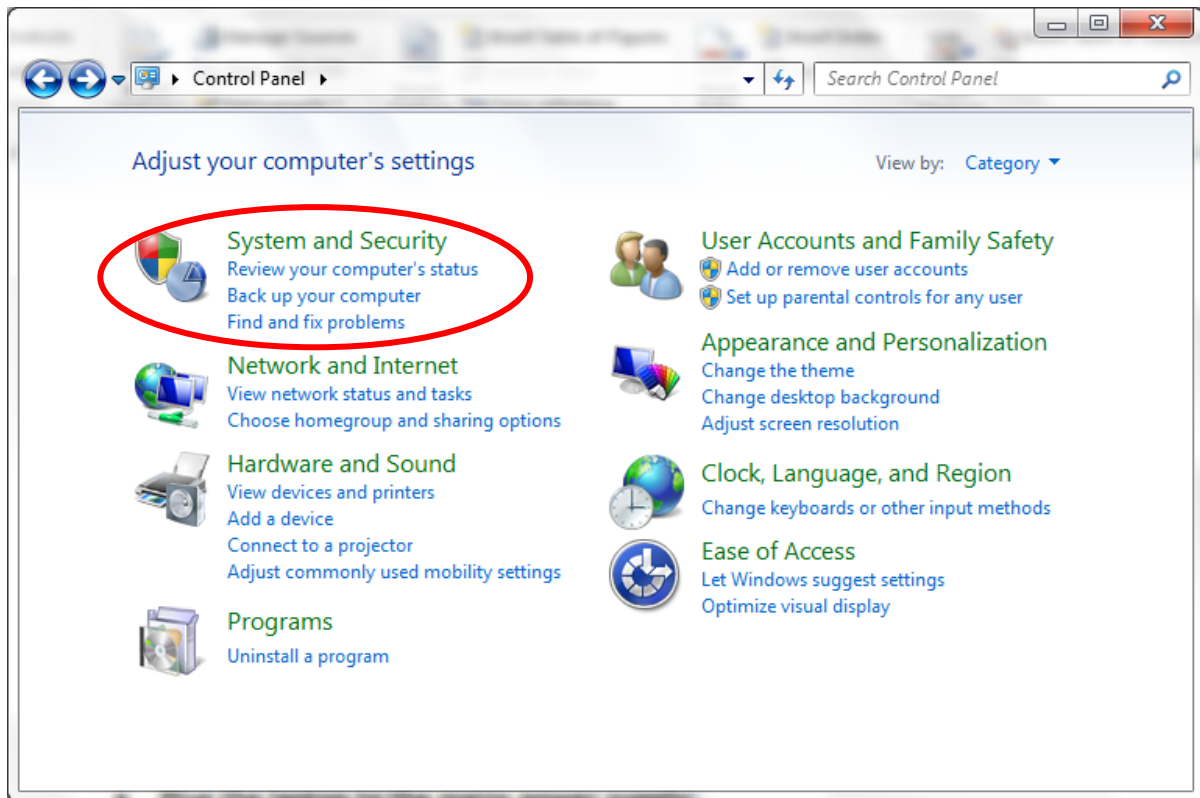


Figure 62

2. The "System and Security" window opened as Figure 63. Click "Power Options" on the window.

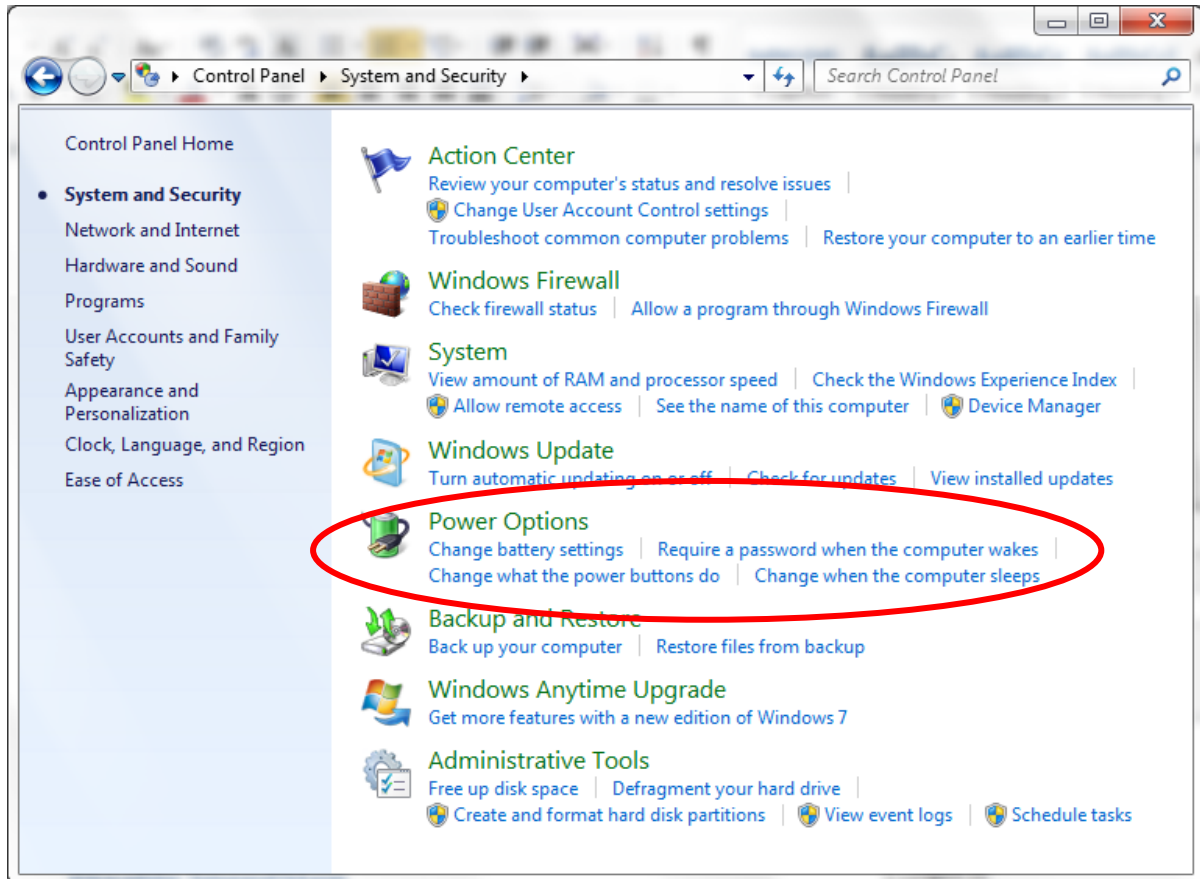


Figure 63

3. The "Power Options" window appears as Figure 64. Check "High Performance".

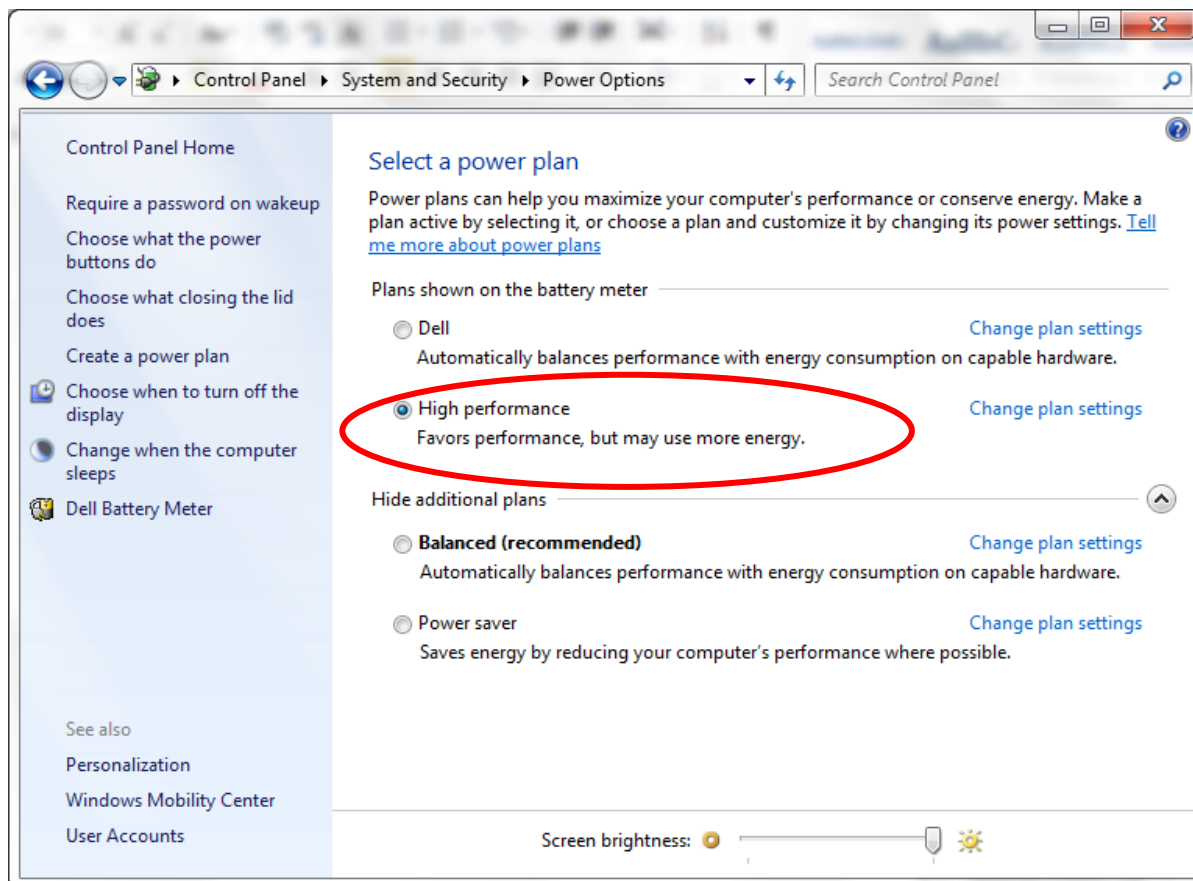


Figure 64

Enable Background Services

Enabling Background Services may make the camera have a better video quality. Also, it is important to ascertain that background services do not interfere with camera. Such services may be related to real-time virus killer software or hardware devices including TV-cards, built-in laptop cameras etc. The following steps show the process of enabling the Background service in Windows XP and Windows 7

Enable background services in Windows XP

1. Open System properties from Control Panel
2. Select "Advanced" tab from the "System Properties" window. Refer to Figure 65. Click on the "Settings" button in Performance.

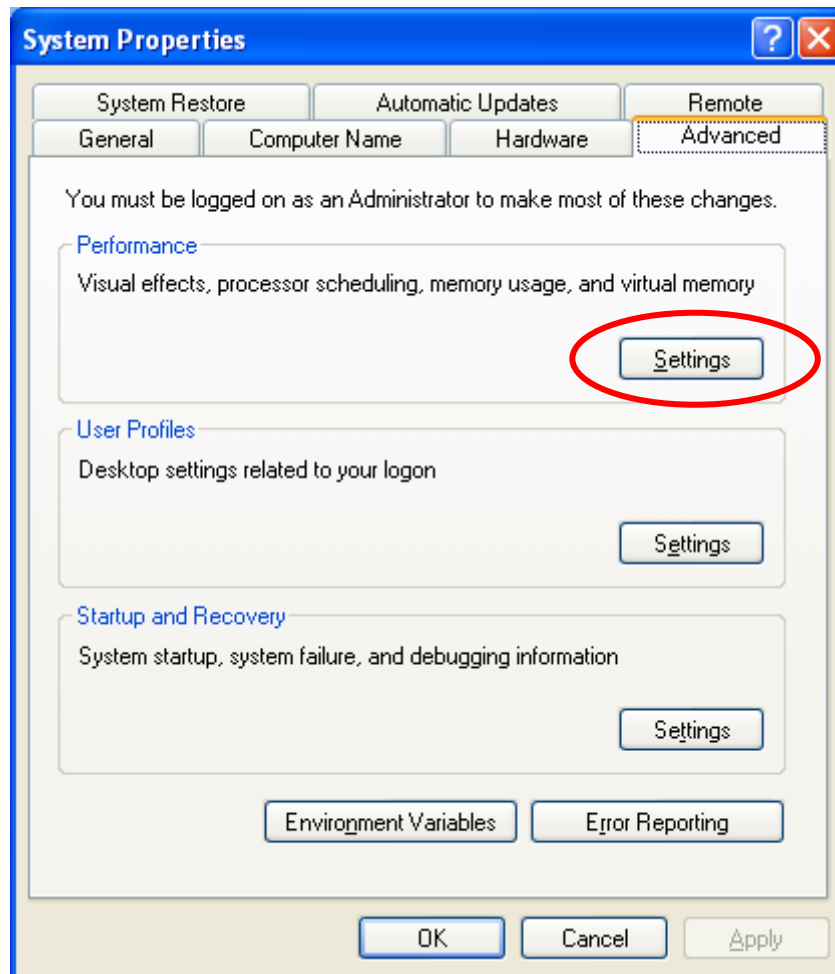


Figure 65

3. Select "Advanced" tab page in Performance Options window as Figure 66. Check "Background services" and click on the "OK" button to close the window.

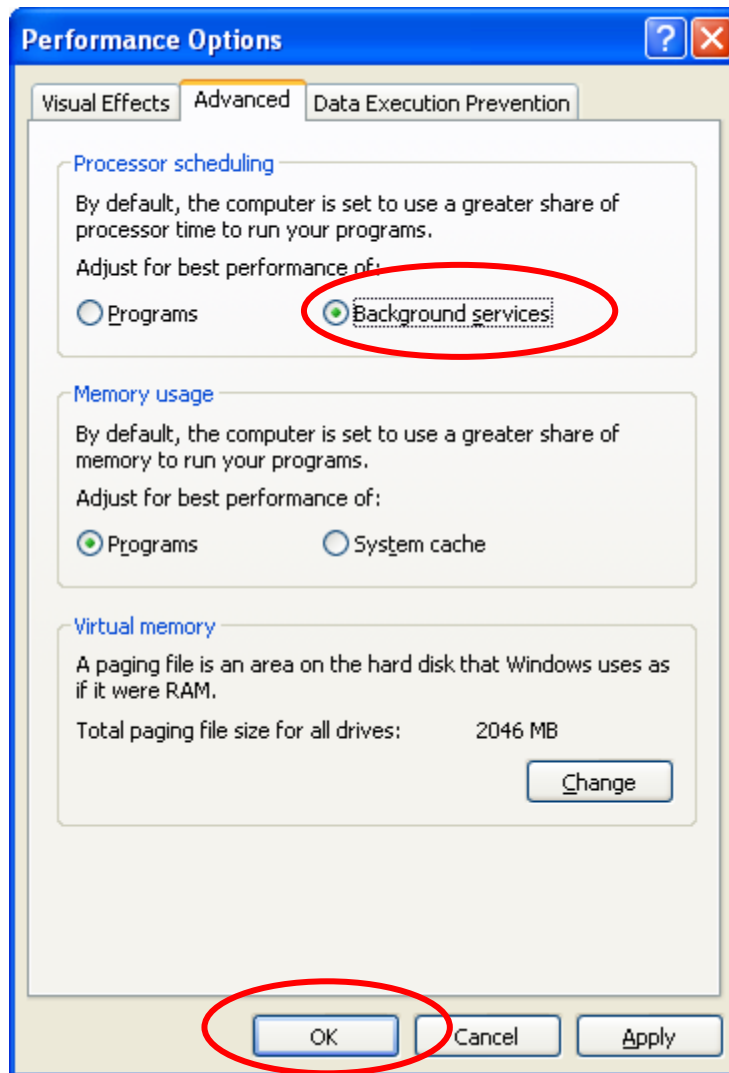


Figure 66

Enable background services in Windows 7

1. Open Control Panel as shown in Figure 62 and click on "System and Security".
2. The "System and Security" window opens as shown in Figure 67. Click "System" on the window.

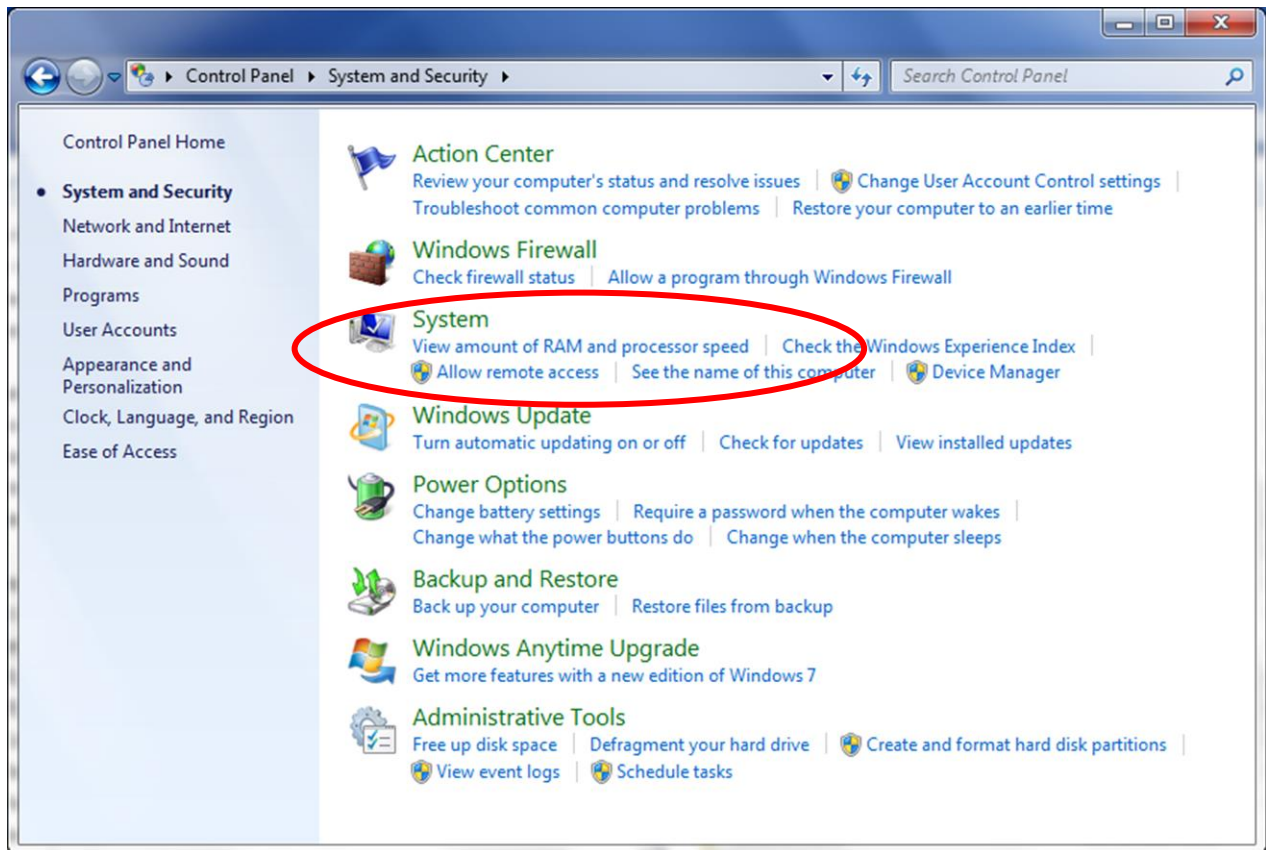


Figure 67

3. The system window appears as shown in Figure 68. Click on “Advanced system settings”.

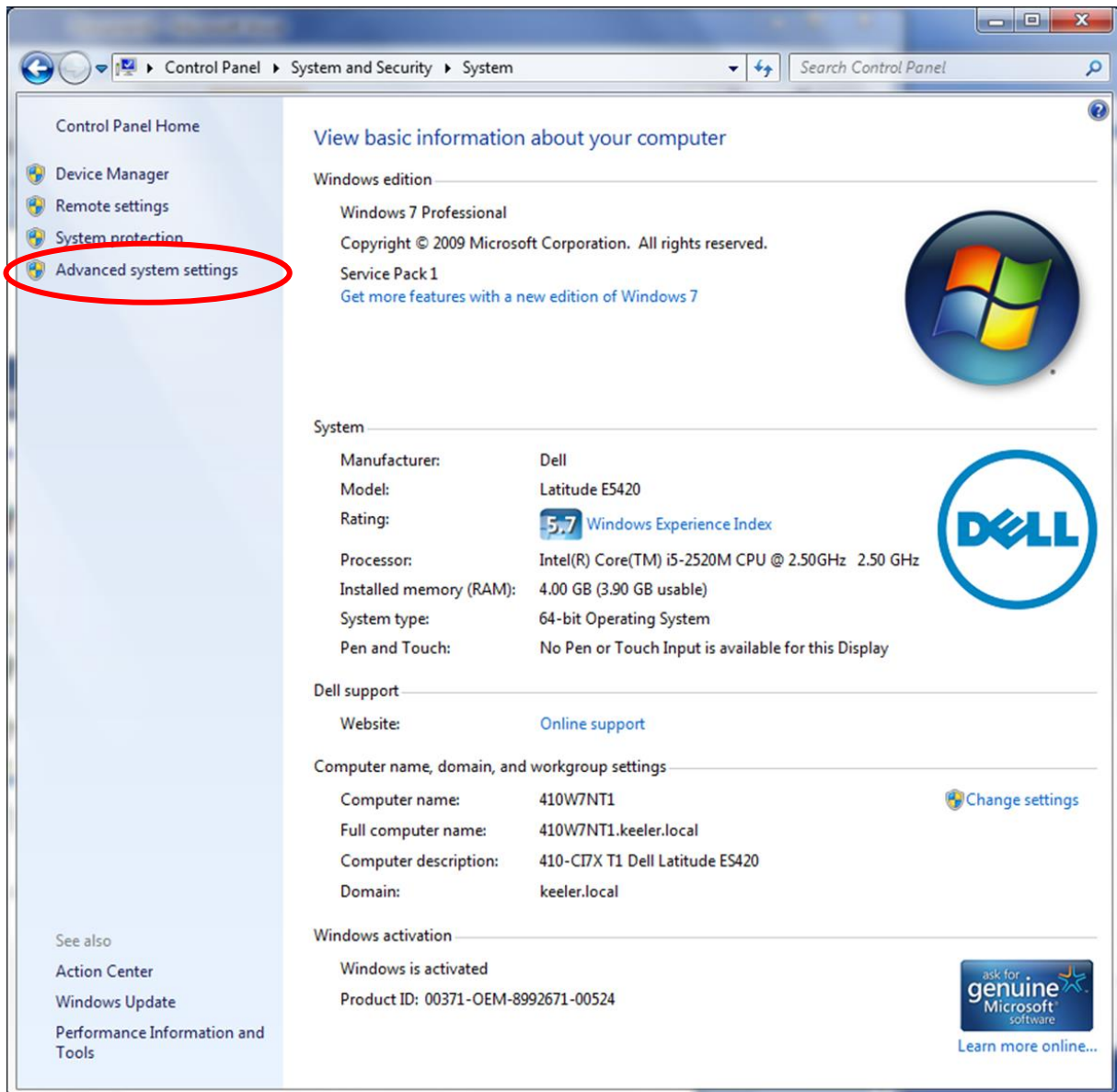


Figure 68

4. The system property window opens as shown in Figure 69. Click on “Settings” to open the Performance Options window.

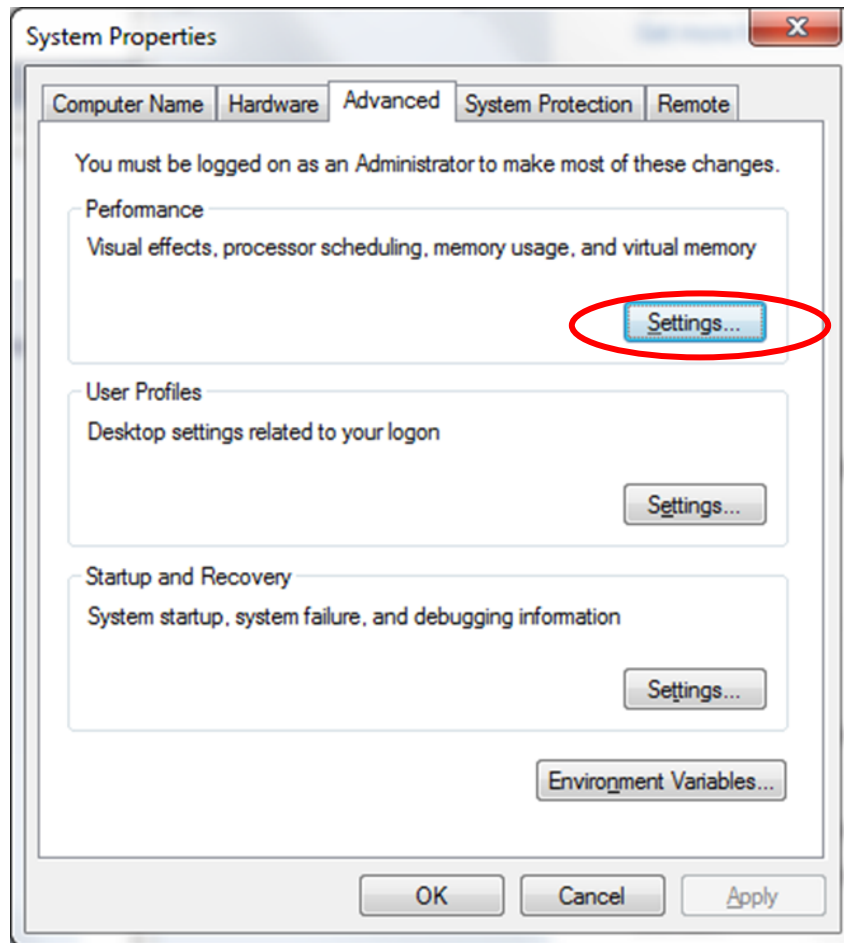


Figure 69

5. The Performance Options window will open as Figure 70. Check “Background services” and click on the “OK” button to close the window.

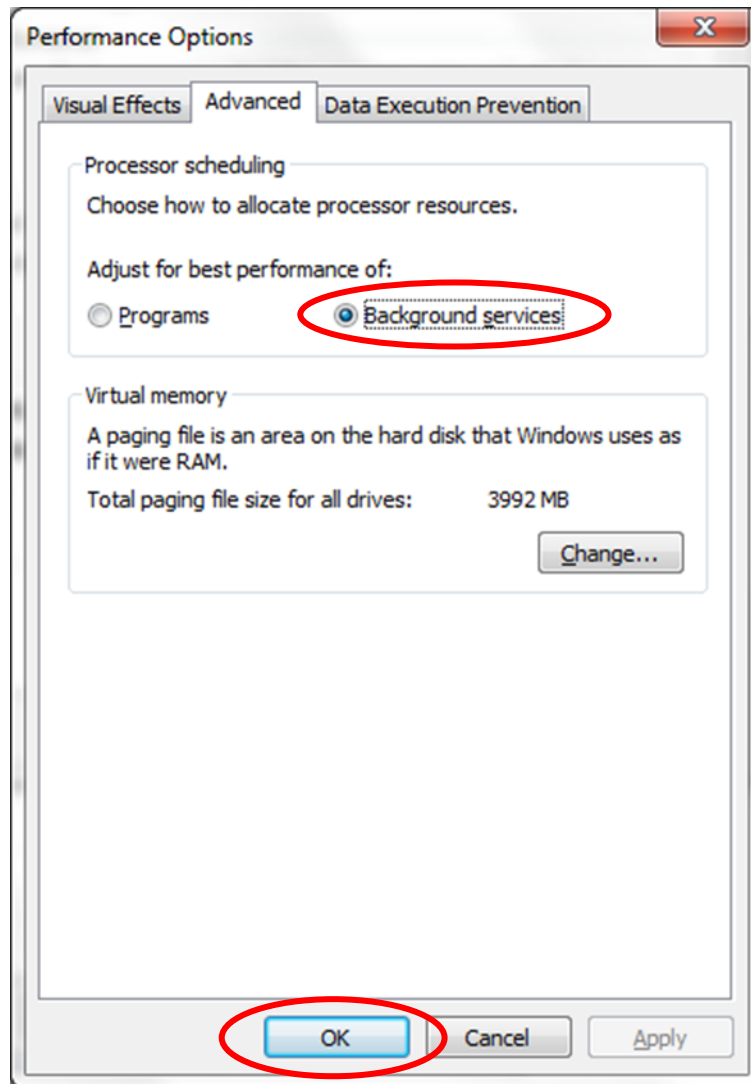


Figure 70

Adjust for best performance

Adjust for best performance in Windows XP

1. Go through the steps 1 and 2 in the Enable background services in Windows XP section (page 55).
2. Select the "Visual Effects" tab in the Performance Properties window (Figure 71). Check "Adjust for best performance" and click on the "OK" button to close the window.

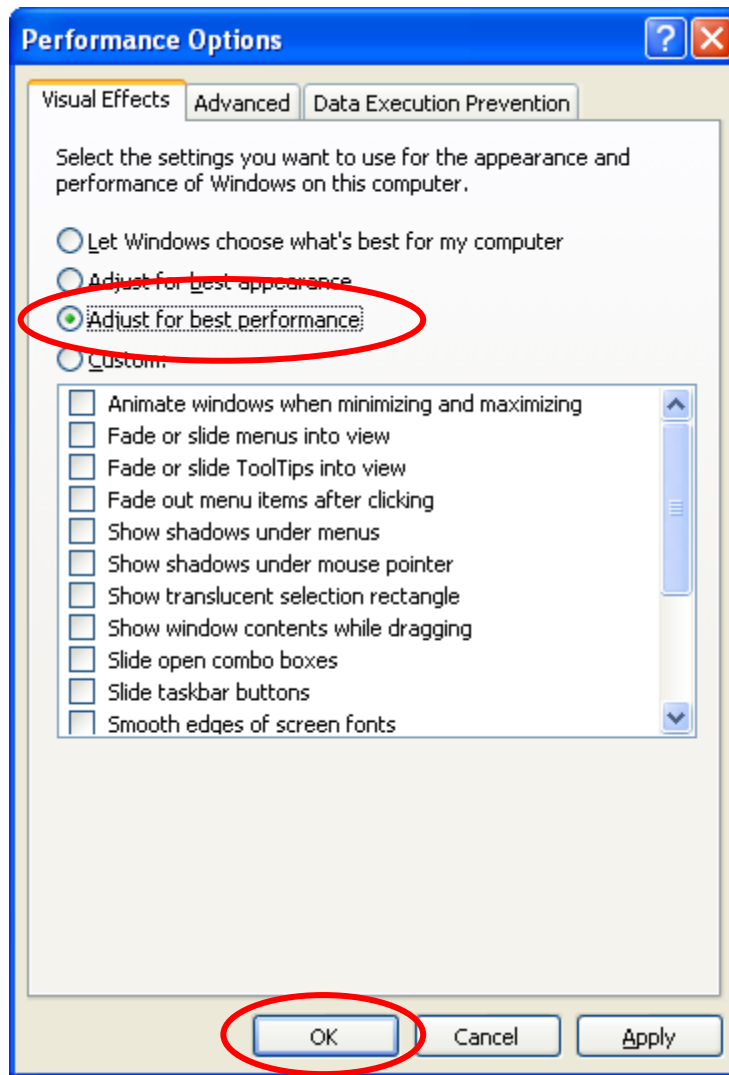


Figure 71

Adjust for best performance in Windows 7

1. Go through step 1 to 4 in the Enable background services in Windows 7 section (page 57).
2. Select the "Visual Effects" tab page in the Performance Options window (Figure 72). Check the "Adjust for best performance" and click on the "OK"

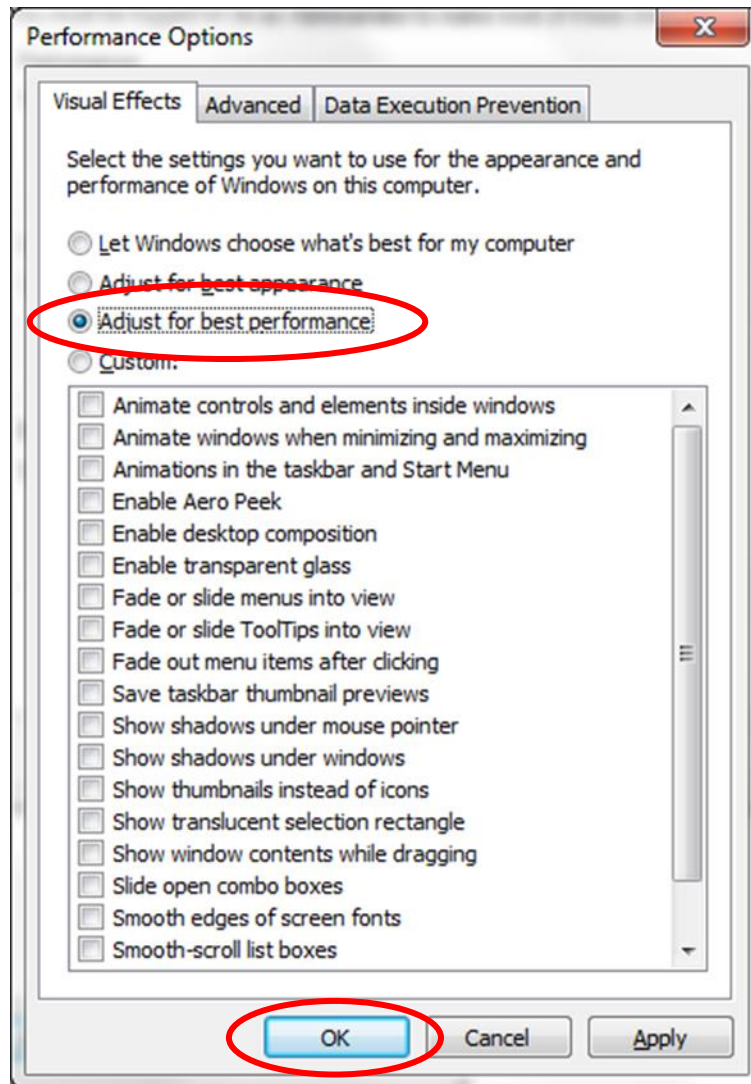


Figure 72

Disable the built-in camera

If a laptop, which has a built-in camera, is used for Vantage Plus Digital, you may consider disabling the built-in camera as it may interfere with the operation of the Vantage Plus Digital.

Disable any anti-virus software

To increase performance on slower computers you may need to disable any anti-virus, spyware and adware software as these may affect the performance of your camera to a degree. Sometimes but not always these can take considerable resources especially when scanning your computer hard disks.

What can I do when the windows color scheme changes to Windows 7 Basic?

When Debut Video Capture software runs in Windows 7, a popup window appears as Figure 73 some times. Click the “OK” button to close the window. Windows 7 will automatically switch back to its default aero color scheme after the Debut video capture software closes.

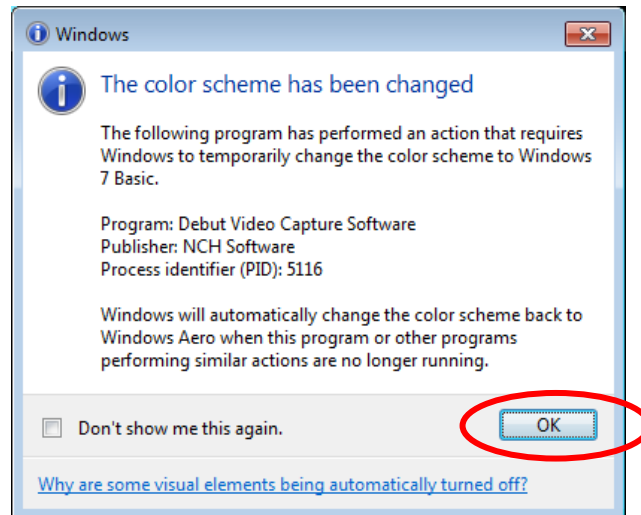


Figure 73

What can I do when a message “The following applications should be closed before continuing the install”?

When uninstalling Vantage Digital EV02, a window appears as Figure 74. Click on “OK” button to proceed.

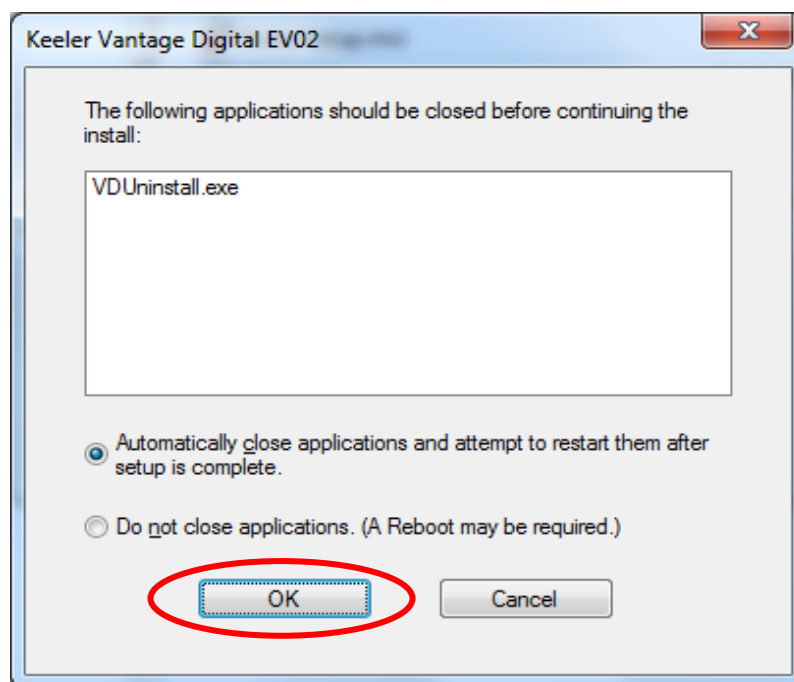


Figure 74

“Error: No device was found” on Windows 7 64 bits Home Premium Operating System

A KS722OUP “Error: No device was found” message will appear as shown in Figure 75 under the following condition: 1) run Debut Video Capture software on Windows 7 64 bits Home Premium operating system; 2) Click on “OK” button in “Device Settings” window. In this case, click on the “OK” button on “KS722OUP” window and “Options”. Close Debut video capture software. Run Debut Video Capture software again. Now it works with the updated Device settings.

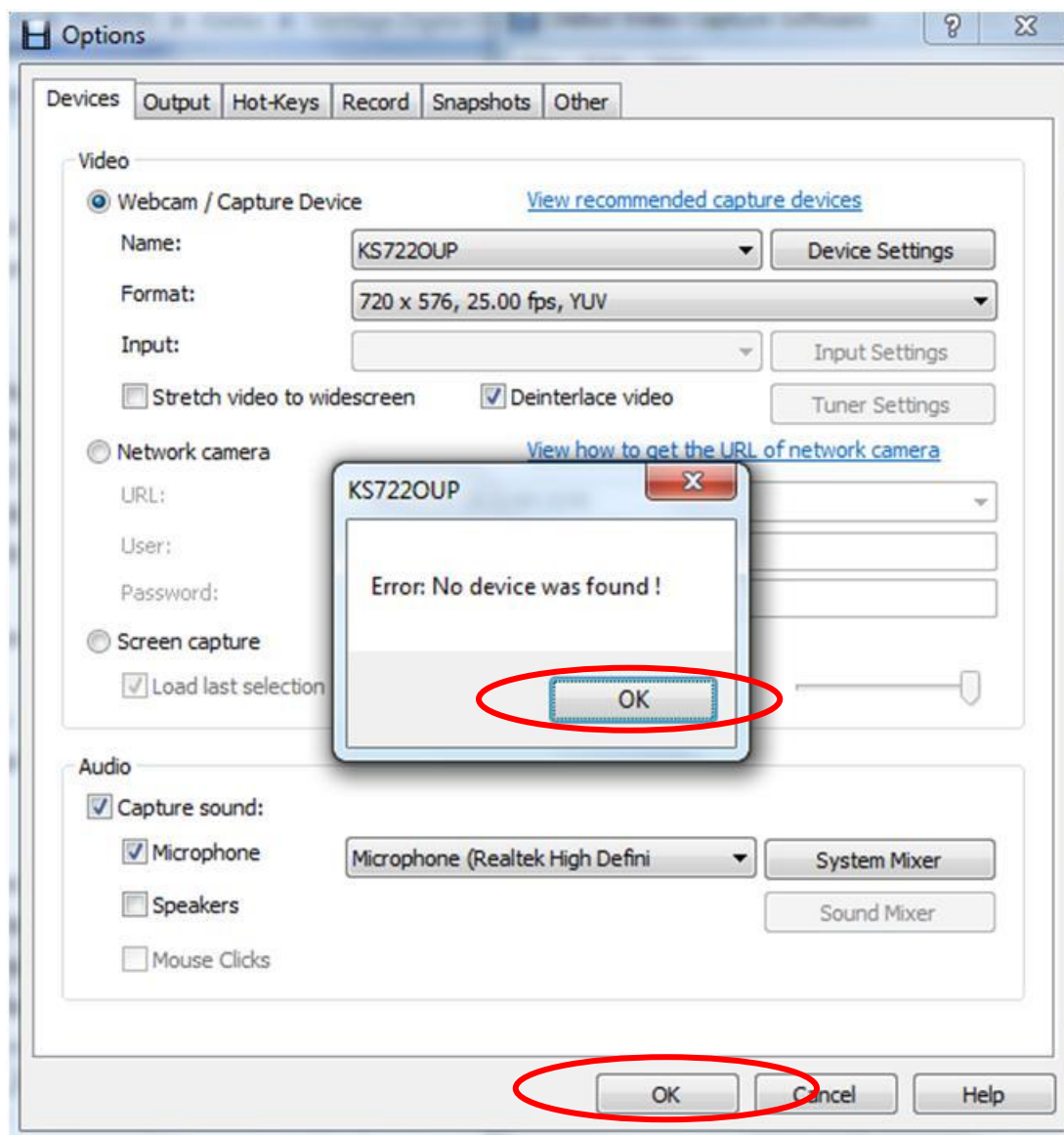


Figure 75

Missing Shortcut to desktop icon created by Adjusting installation software

If the “Create a desktop icon” has been checked when installing the KS722OUP Adjust software, a desktop icon, namely “HQ1_empVMadj”, will be created after installation. When double clicking the created icon, a window appears as shown in Figure 76. Windows start to

search for the missing file. Upon completion of the file search, the window changes as shown in Figure 77.

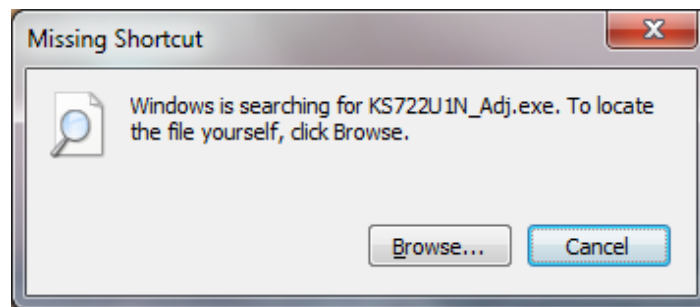


Figure 76

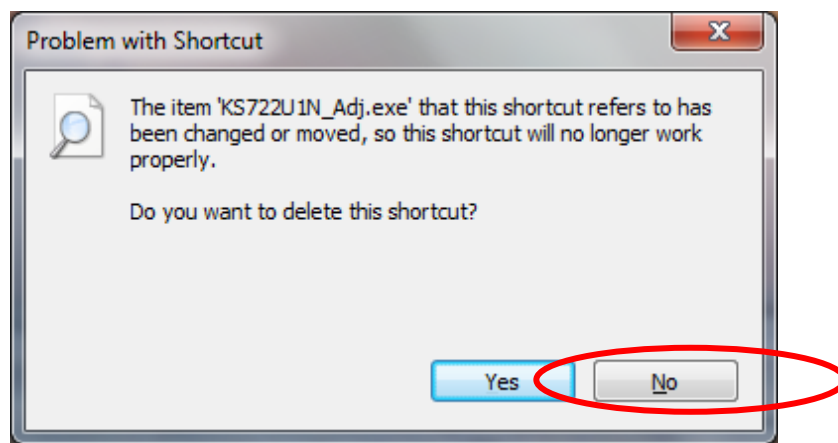


Figure 77

To solve the shortcut problem, please do following:

1. Click "No" on "Problem with Shortcut" window (Figure 77) to close the window.
2. Right click the icon to get the window as shown in Figure 78.

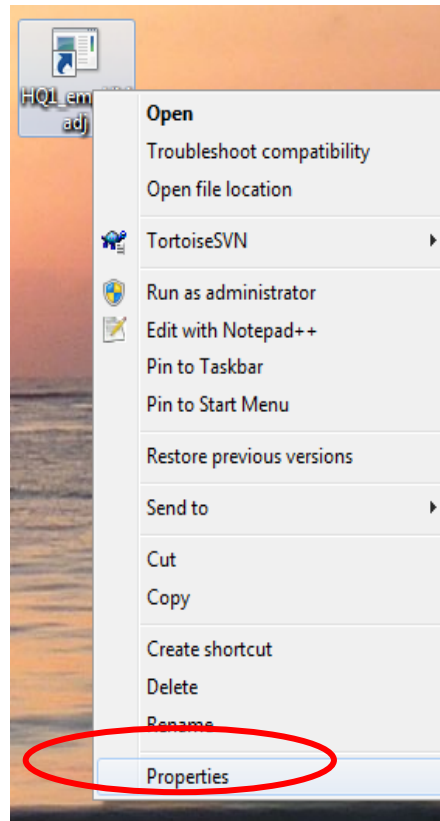


Figure 78

- Click on "Rename" to rename it as something you prefer, such as "KS722OUP Adjust Tool". The "File Access Denied" appears in Windows 7 as shown in Figure 79. Click on "Continue".

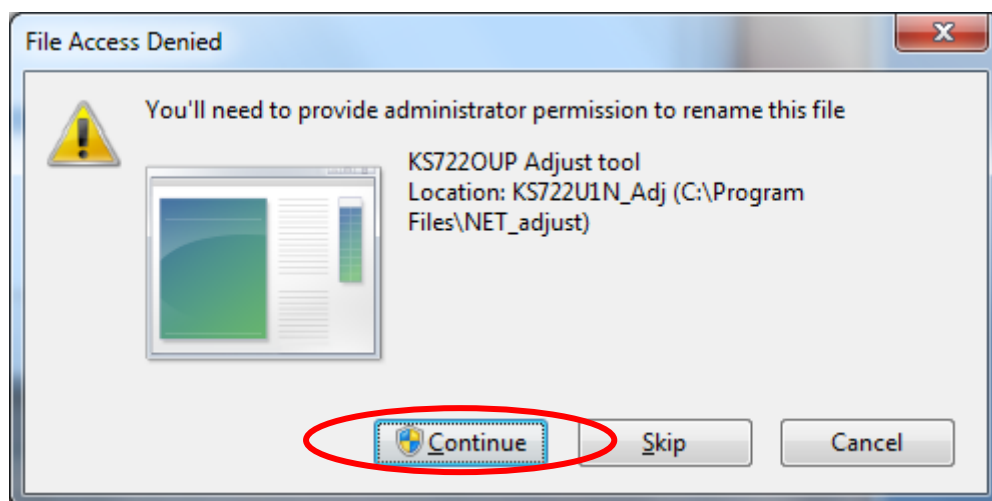


Figure 79

- Highlight the "KS722OUP Adjust Tool" icon and right click to open the window as shown in Figure 80.

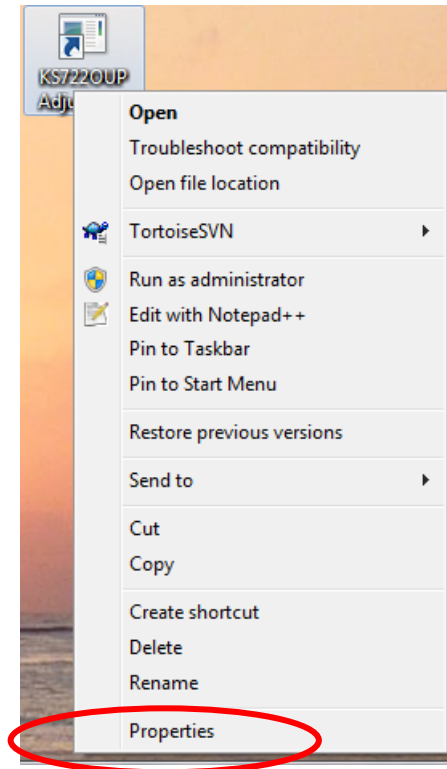


Figure 80

5. Click on "Properties" to open the properties window as shown in Figure 81. Change the target file name to "KS722OUP_Adj.exe". Click the "OK" button.

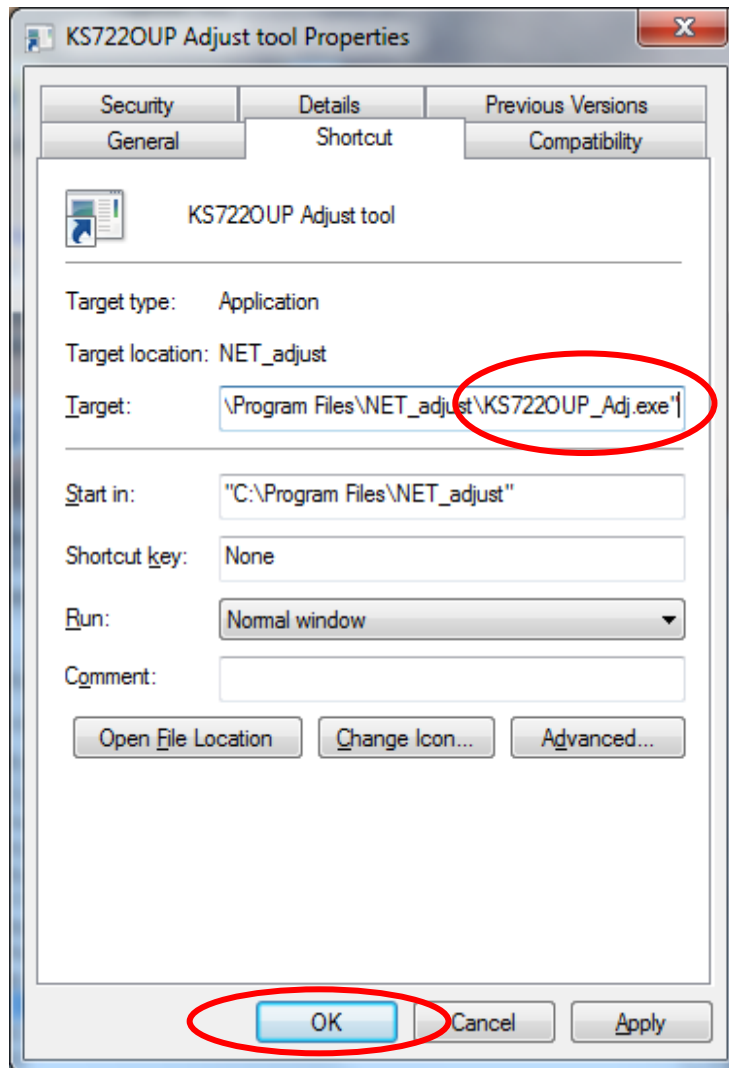


Figure 81

6. A new window pops up as shown in Figure 82 in Windows 7. Click on "Continue" to complete.

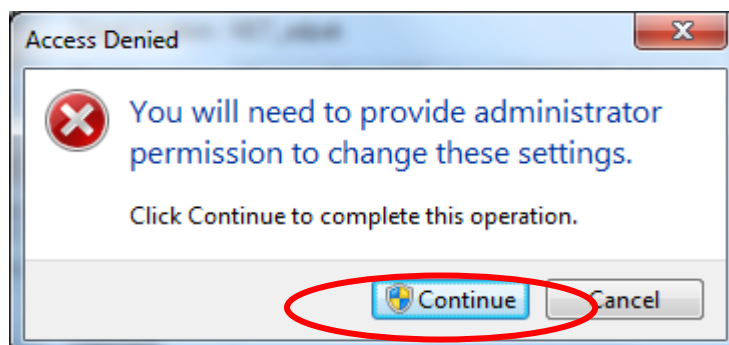


Figure 82

Default Settings

A file “Config 24-10-11.nsf” contains the camera default factory settings. A tool is available to assist you to restore the factory settings should you accidentally change/alter any camera settings. Please refer to the section of the Camera adjustment tool for details from page 79.

We highly recommend you use our factory settings on the camera to obtain the best possible resolution.

Uninstall Vantage Digital

If you want to uninstall the Vantage Digital from your PC, we strongly advise you to run the provided uninstall program.

To uninstall the vantage digital camera driver successfully, please make sure that the vantage digital camera has been plugged in and no Debut video capture software or other video capture software is running.

Run Vantage Digital EV02 Uninstall program

1. Go to “All Programs -> Keeler -> Vantage Digital EV02 -> Uninstall” and click on “Uninstall Vantage Digital EV02”. Refer to Figure 83.

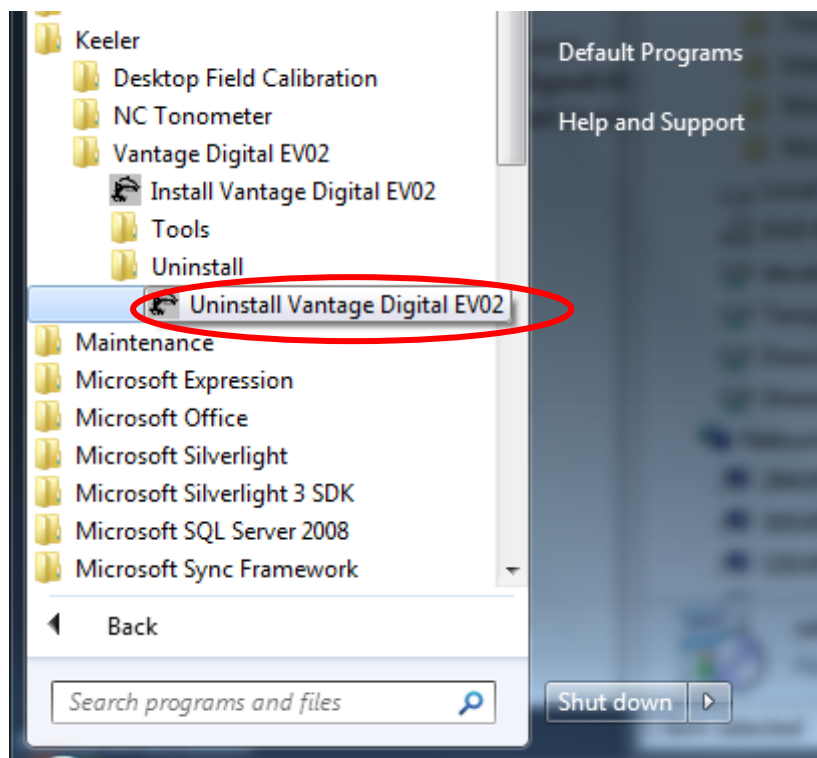


Figure 83

2. For Windows 7, a User Account Control window will appear. Select “Yes” to run the uninstall program. The uninstall program window appears as Figure 84. This program will uninstall the Vantage Digital EV02 and the related software modules. You may select the software modules to be uninstalled if you wish. We advise you to use the default selections. If the uninstall is for software updating purposes, please check “PnP Service”. The Debut Video Capture software and the related codecs will not be uninstalled in this uninstall procedure. The uninstall procedure may not include all the steps described in this section depending on the software modules that were installed and whether they have been checked or not. Click on the “Uninstall” button to continue.

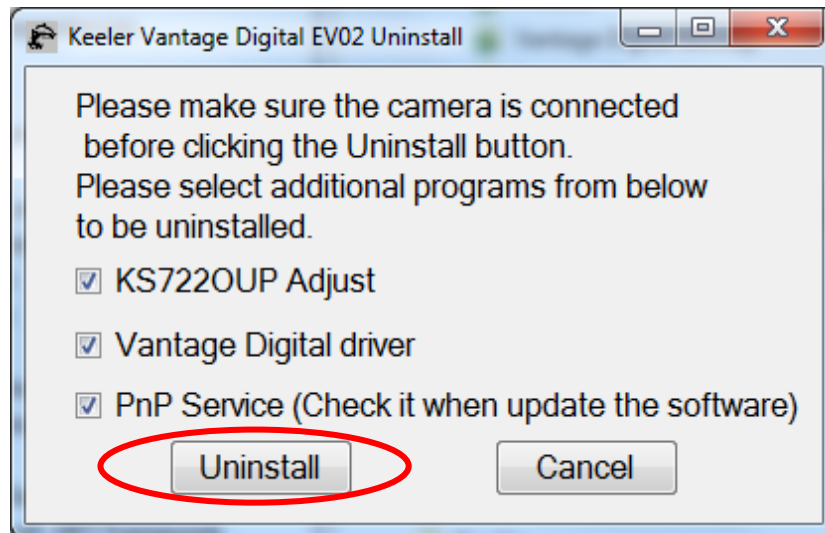


Figure 84

Uninstall KS722OUP Adjust

3. The "Keeler Vantage Digital EV02 Uninstall" window changed as shown in Figure 85. A new window "KS722OUP_Adj Uninstall" appears as shown in Figure 86. Click on "Yes".

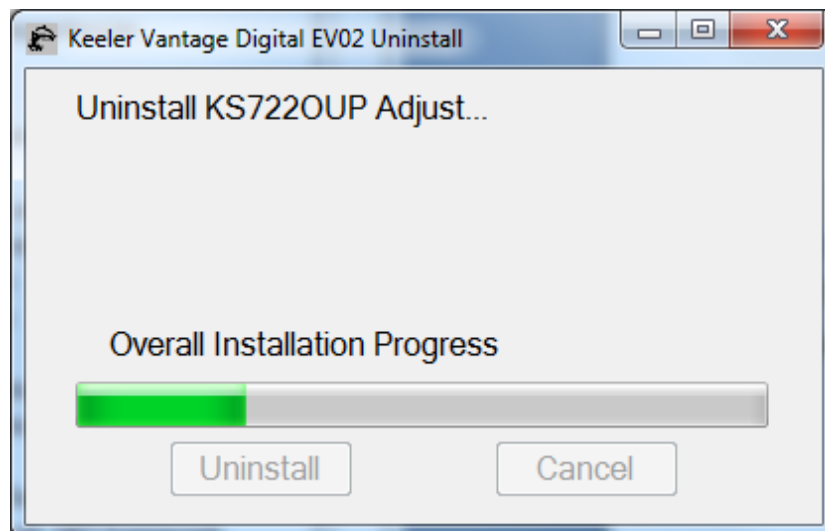


Figure 85

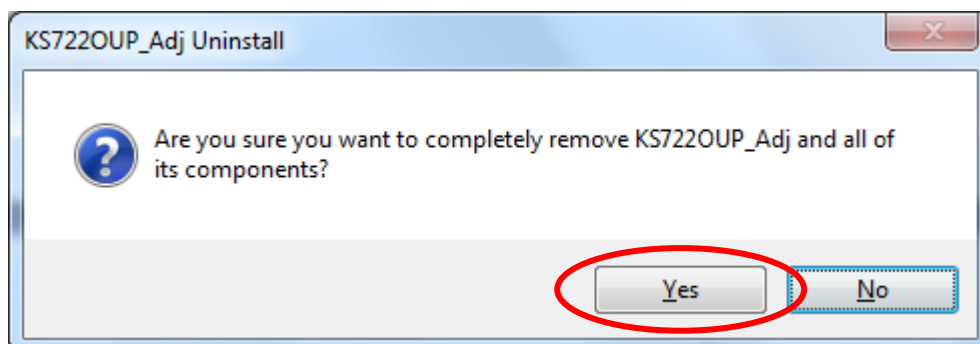


Figure 86

4. After uninstalling KS722OUP Adjust software, a confirmation window will be displayed as shown in Figure 87. Click on the “OK” to complete.

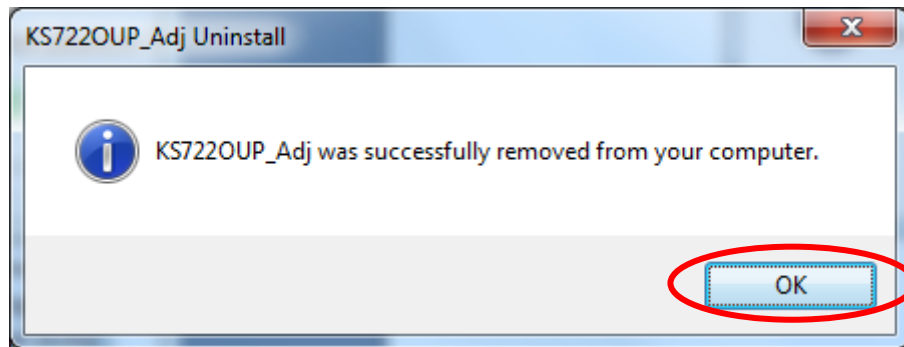


Figure 87

Uninstall PnP Service KS722OUP

5. The “Keeler Vantage Digital EV02 Uninstall” window changes as shown in Figure 88. A new “Install PnP Service KS722OUP” appears as shown in Figure 89. Click on “Uninstall”.

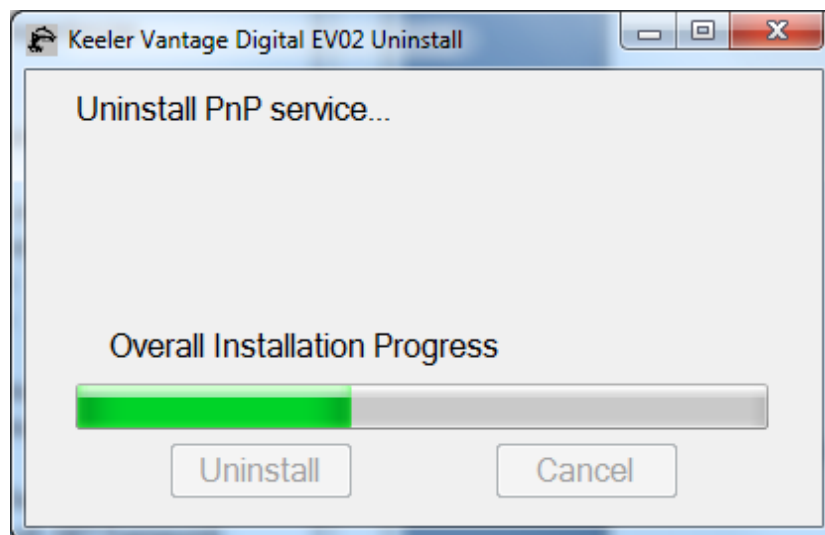


Figure 88

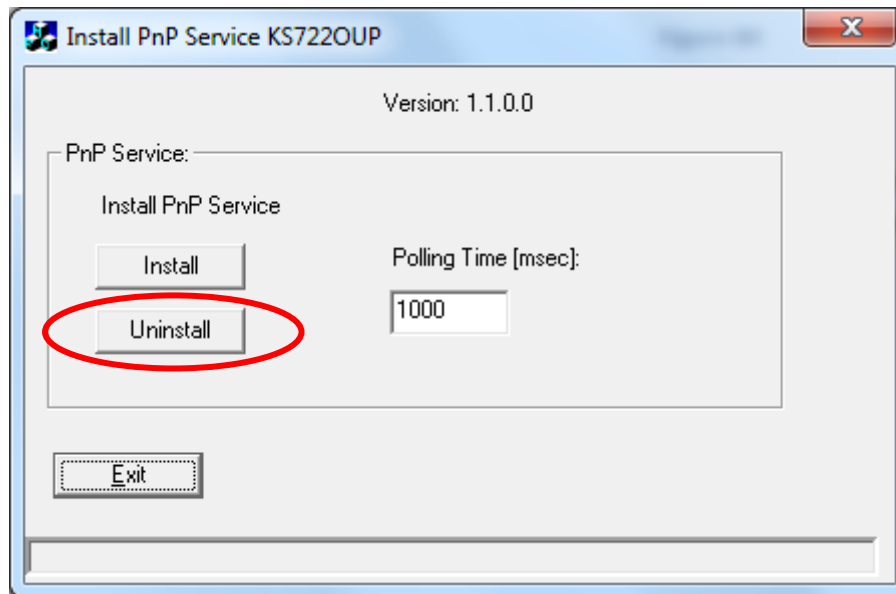


Figure 89

- Click on "Exit" after the message "Success!". Refer to Figure 90.

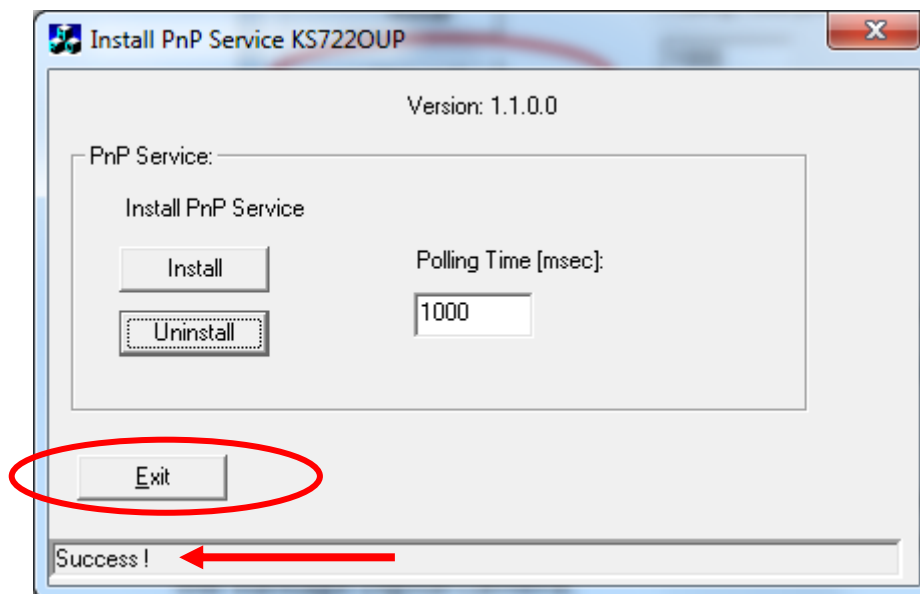


Figure 90

Uninstall Vantage Digital camera driver

- The "Keeler Vantage Digital EV02 Uninstall" window changes as shown in Figure 91. An "Information" window appears as shown in Figure 92. Click on the "OK" button after plugging in the Vantage Digital camera.

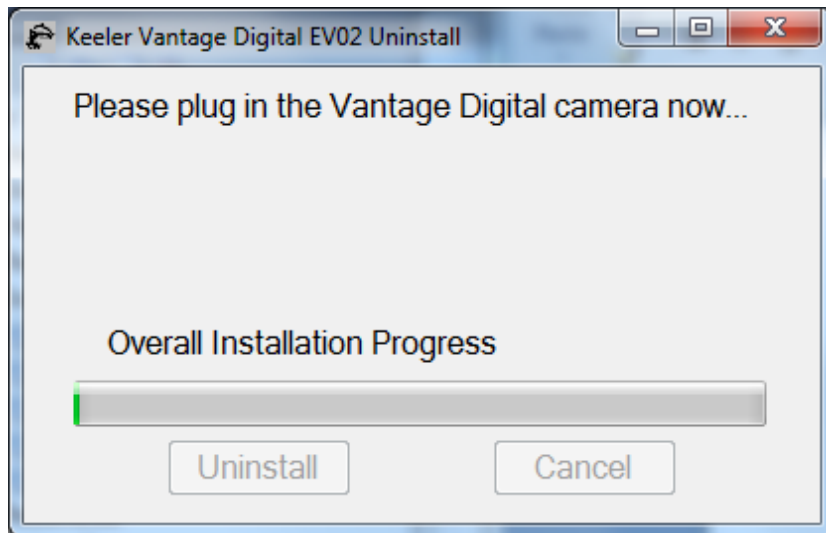


Figure 91

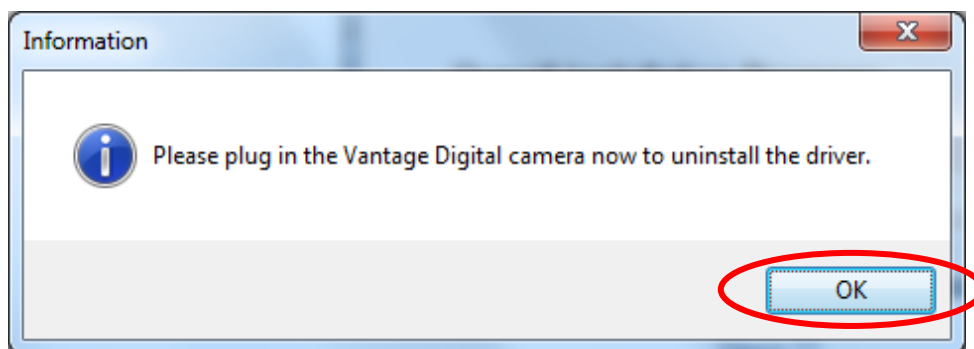


Figure 92

8. The "Keeler Vantage Digital EV02 Uninstall" window changes as shown in Figure 93. A new window "2860 Driver Uninstall" appears as shown in Figure 94. Click on "Yes".

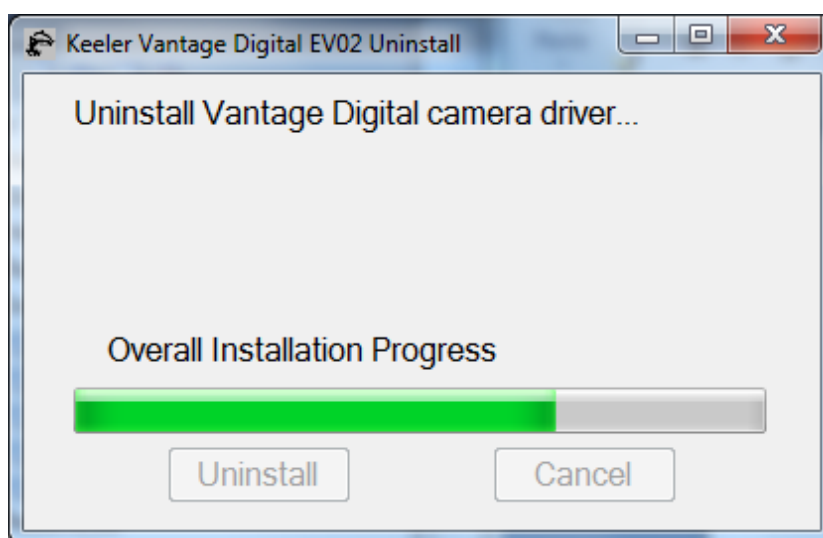


Figure 93

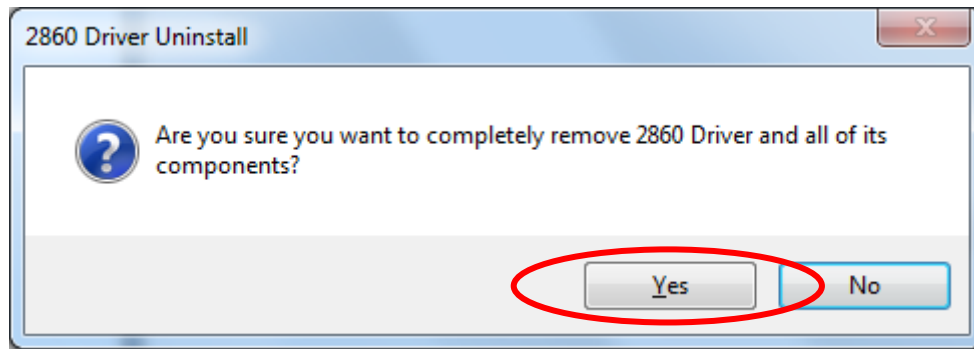


Figure 94

9. The "2860 Driver Uninstall" window changes as shown in Figure 95. Click on "OK" to complete the camera driver uninstall.

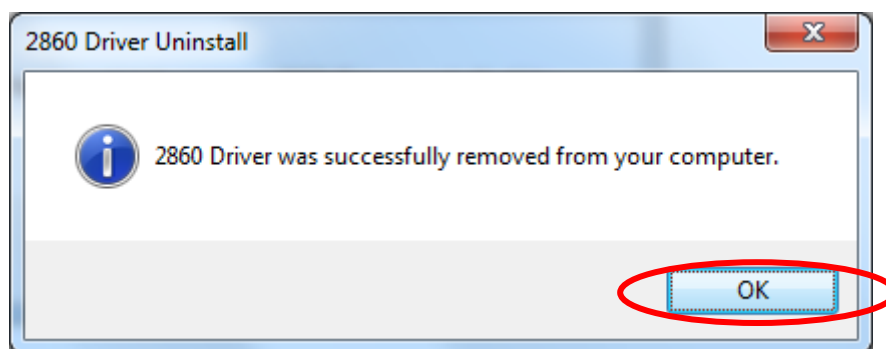


Figure 95

Uninstall Vantage Digital EV02

The steps in this section will go through no matter what software modules were installed and whether they were selected or not.

10. The "Keeler Vantage Digital EV02 Uninstall" window changes as shown in Figure 96. Along the uninstall procedure, the "Keeler Vantage Digital EV02 Uninstall" window will be closed automatically.

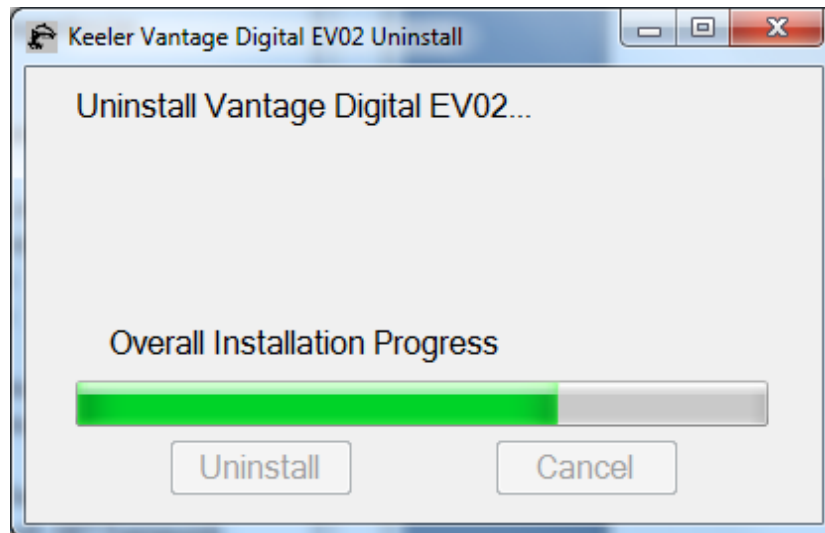


Figure 96

11. After the "Vantage Digital EV02" uninstalls, a window "Keeler Vantage Digital EV02" (Figure 97) will appear to confirm that the uninstall procedure has been completed successfully. Click on "OK" to complete.

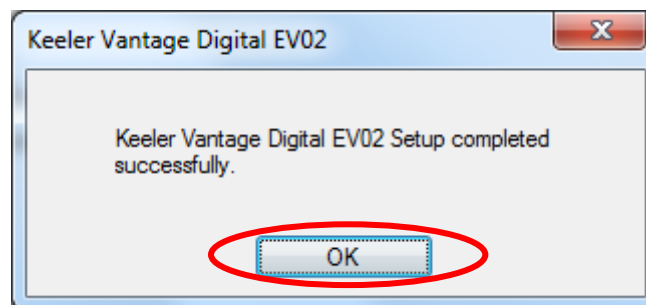


Figure 97

Uninstall Vantage Digital EV02 from Windows Control Panel

We do not recommend you uninstall the Vantage Digital EV02 from Windows Control Panel. If you like, you may do so. You must follow the following brief steps in sequence so that the camera driver has been properly uninstalled.

1. Uninstall PnP service:
 - a. Clicking "All Programs -> Keeler -> Tools -> InstallPnP";
 - b. Click On "Uninstall" and "Exit".
2. Uninstall camera driver
 - a. Plug in camera;
 - b. Uninstall "2860 Driver 3.1.1.6" from "Programs and Features" on Windows 7 or "Add and Remove Programs" on Windows XP.

3. Uninstall “Keeler Vantage Digital EV02” from “Programs and Features” on Windows 7 or “Add and Remove Programs” on Windows XP.

Uninstall Debut Video Capture Software

In general, you do not need to uninstall the Debut Video capture software for the purpose of reinstalling the Vantage Digital software. The Debut Video capture software can be overwritten when reinstalling the Vantage Digital software. You may uninstall the Debut video capture software by using the same method as “Uninstall Vantage Digital EV02” if the uninstall is required. Please keep in mind that after reinstalling the Debut video capture software, the license information needs to be re-entered.

Camera adjustment tool

The camera adjustment tool is used to adjust the Vantage Digital camera parameters. The vantage digital camera parameters have been properly set up to meet the requirement of the Vantage Plus Digital at the factory. In general, you do not need to install this tool to adjust the camera parameters. In case the camera parameters become corrupt or if for any other reason, the camera parameters need to be adjusted, use this tool.

Install camera adjustment tool

1. Go to Start -> All Programs -> Keeler -> Vantage Digital EV02 -> Tools, click “Install KS722 Adjust.exe” as shown in Figure 98.

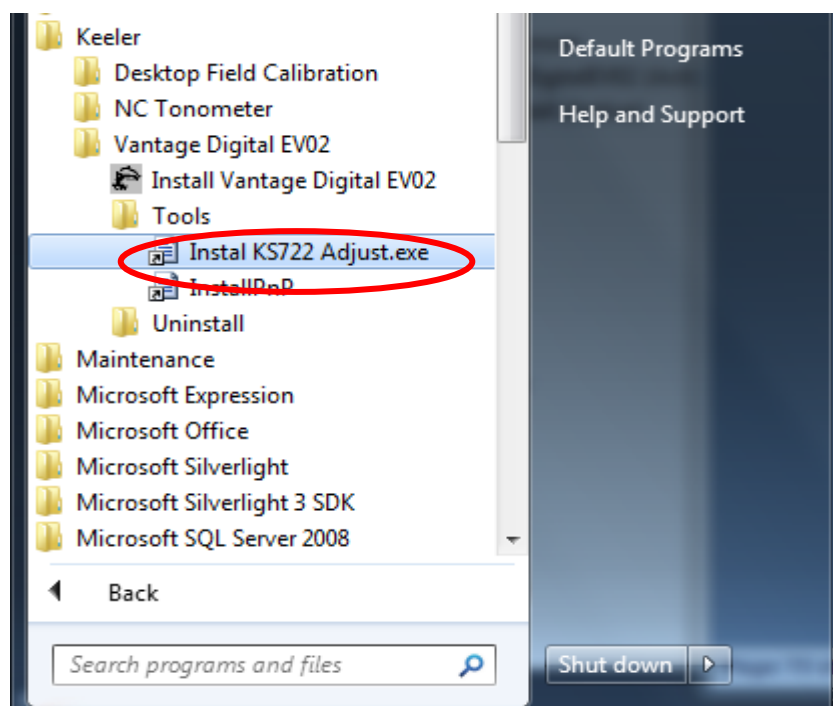


Figure 98

2. A new window namely “Setup - KS722OUP_Adj” opens as shown in Figure 99. Click “Next” as shown on Figure 99, Figure 100, Figure 101, and Figure 102 to continue.

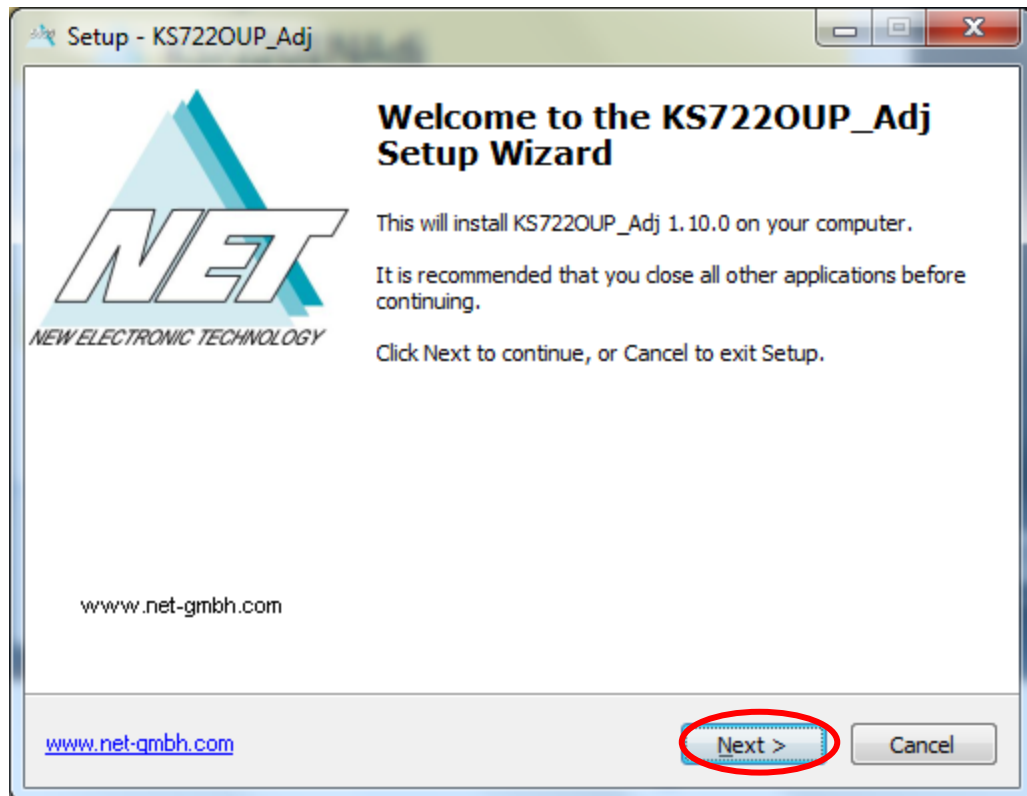


Figure 99

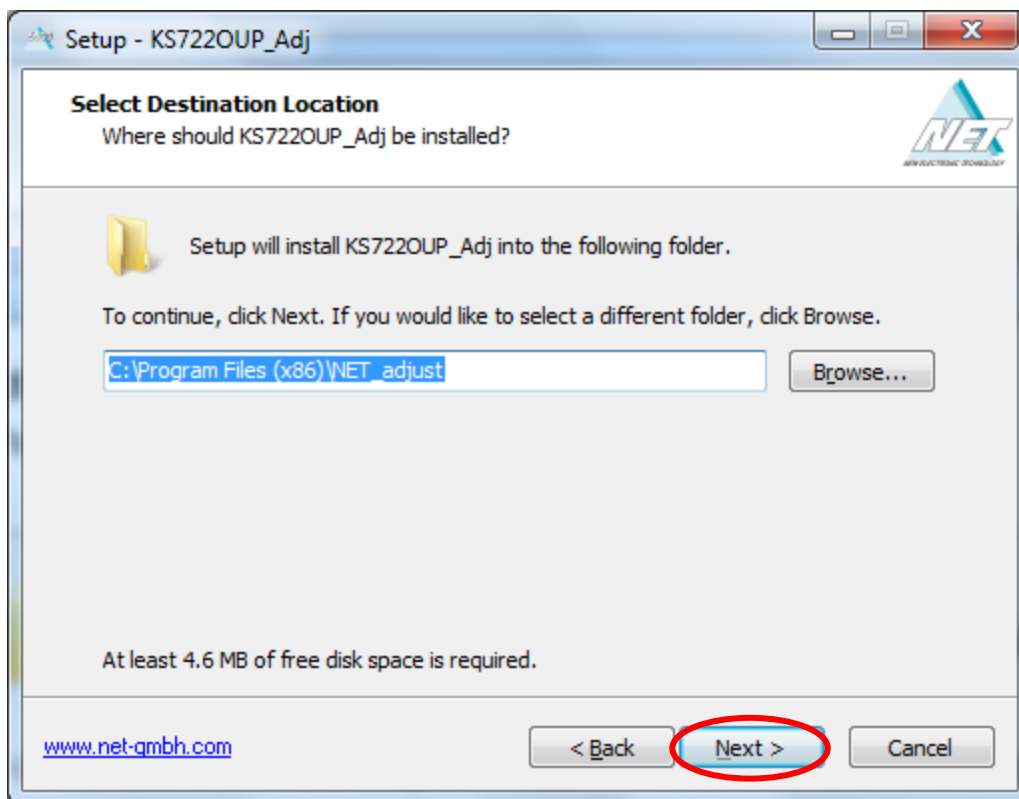


Figure 100

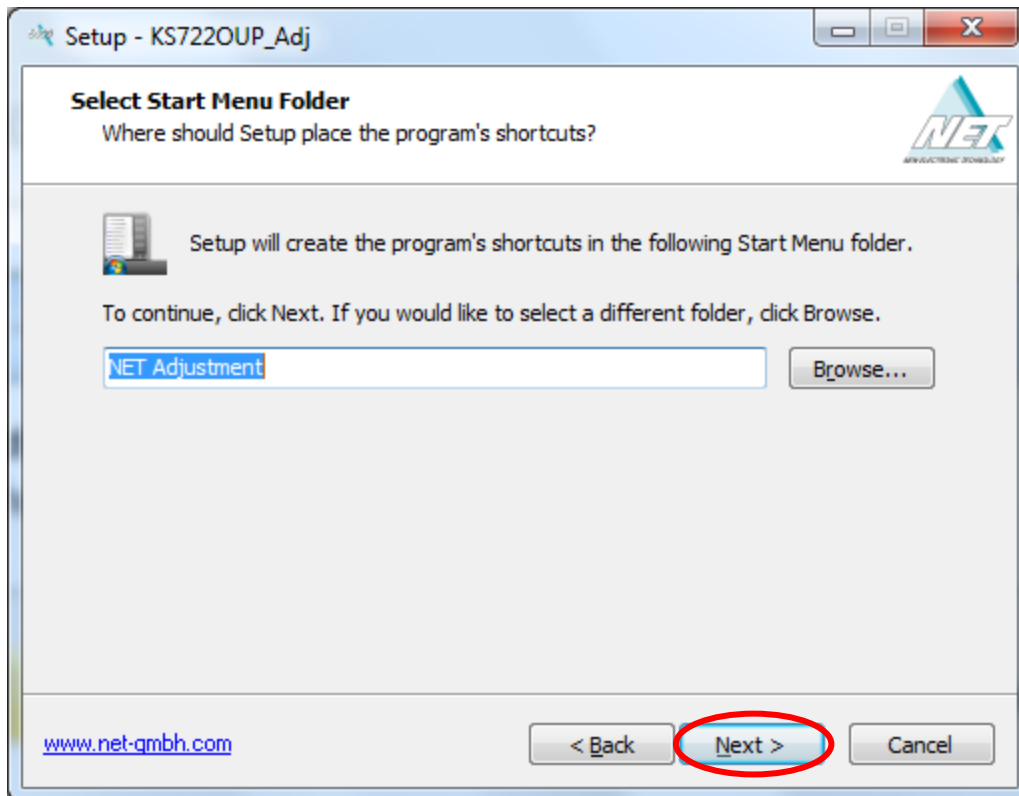


Figure 101

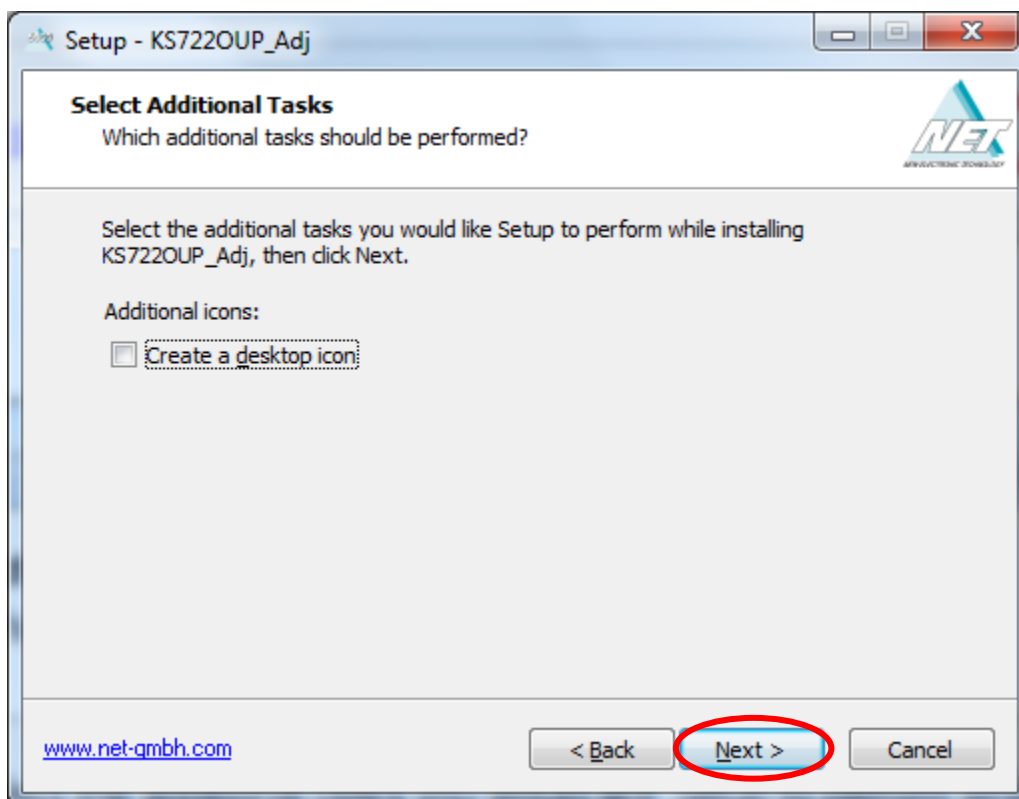


Figure 102

3. Click "Install" as shown on Figure 103 to install.

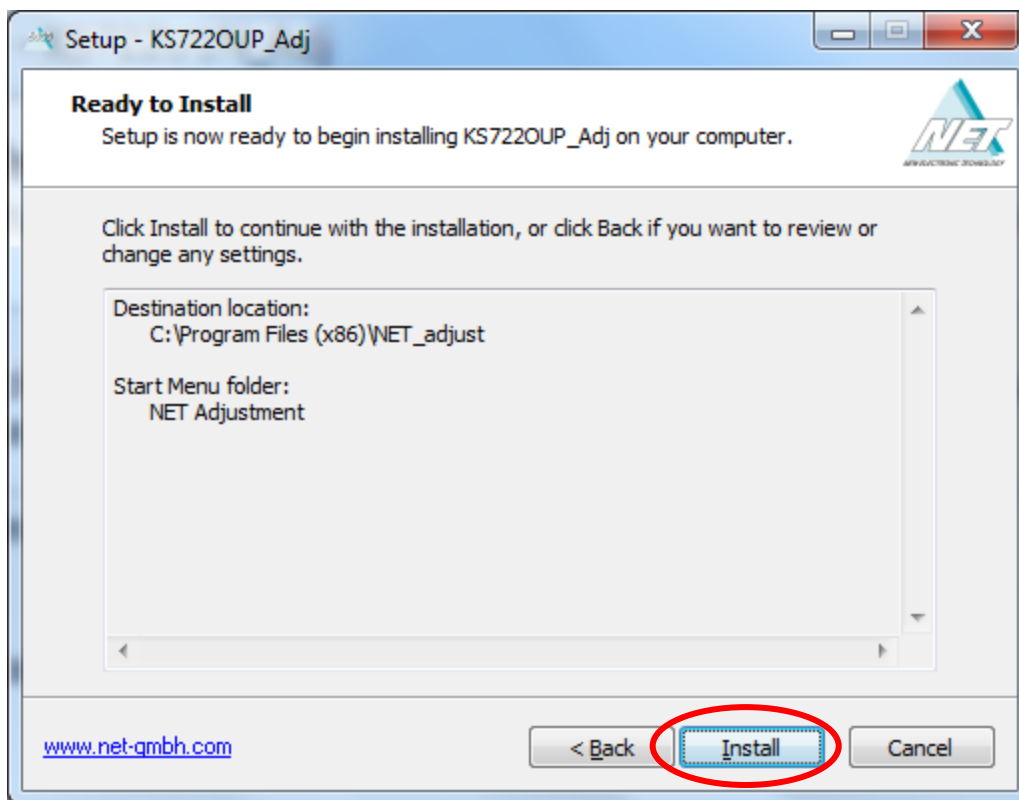


Figure 103

4. Uncheck "Launch EmAdjust". Click "Finish" as shown on Figure 104 to finish the installation.

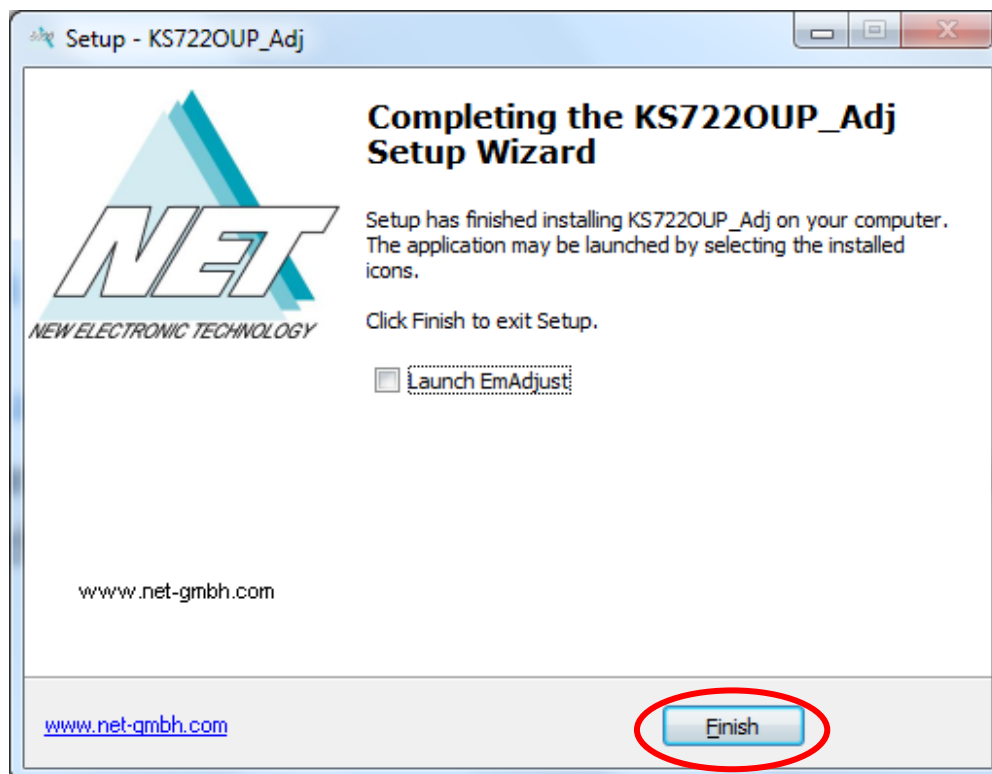


Figure 104

Working with the camera adjustment tool

Get help information

1. Go to Start -> All Programs -> NET Adjustment -> Help. Click "KS722U1" as shown on Figure 105 to open the help file.

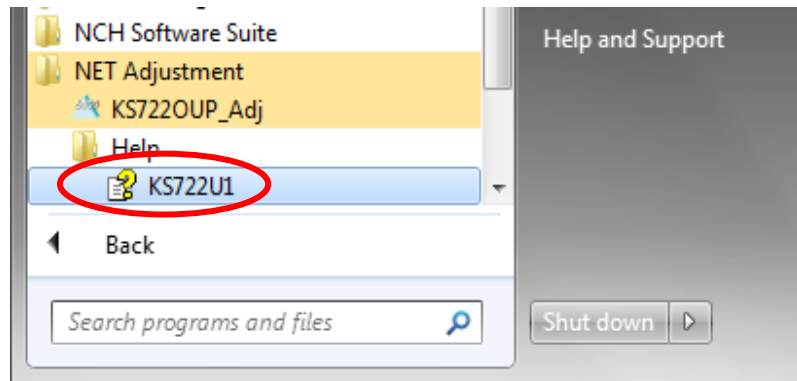


Figure 105

2. The help file will open as shown on Figure 106.

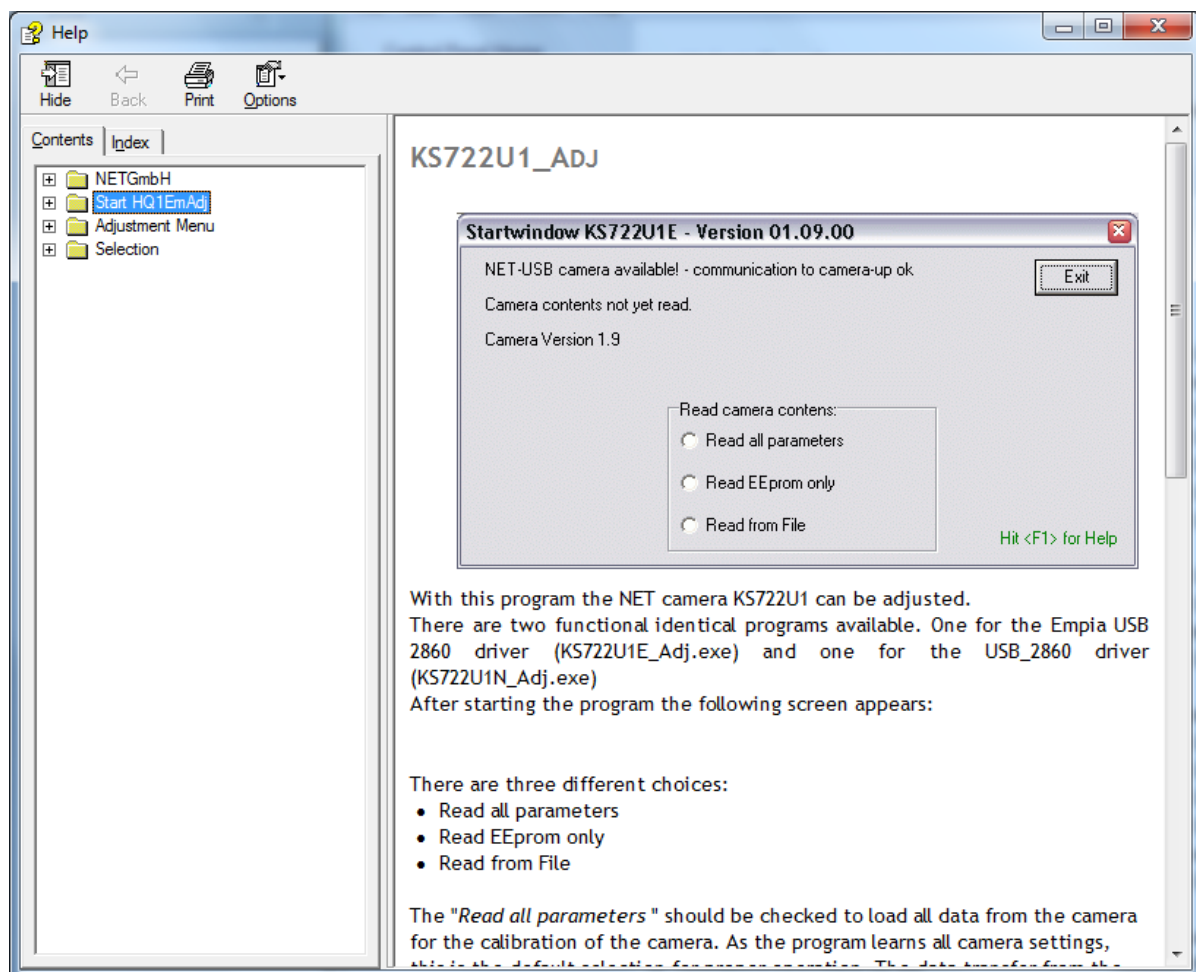


Figure 106

Open camera adjustment tool

1. Plug Vantage Digital camera into the USB port and wait until Windows has successfully installed the camera driver.
2. Go to Start -> All Programs -> NET Adjustment . Click “KS722OUP_Adj” as shown on Figure 107.

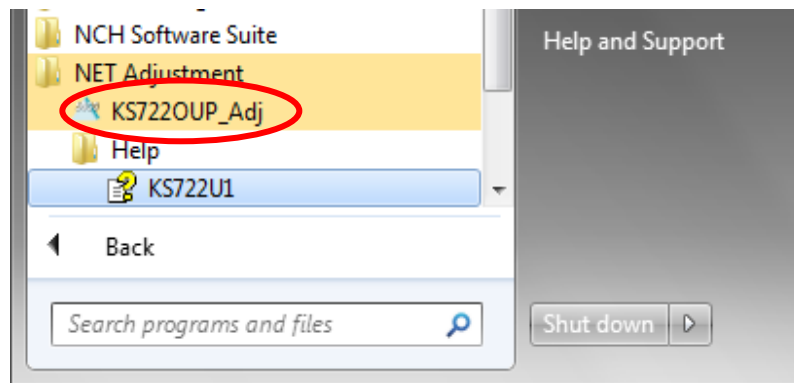


Figure 107

3. The camera adjustment tool window opens as shown on Figure 108.

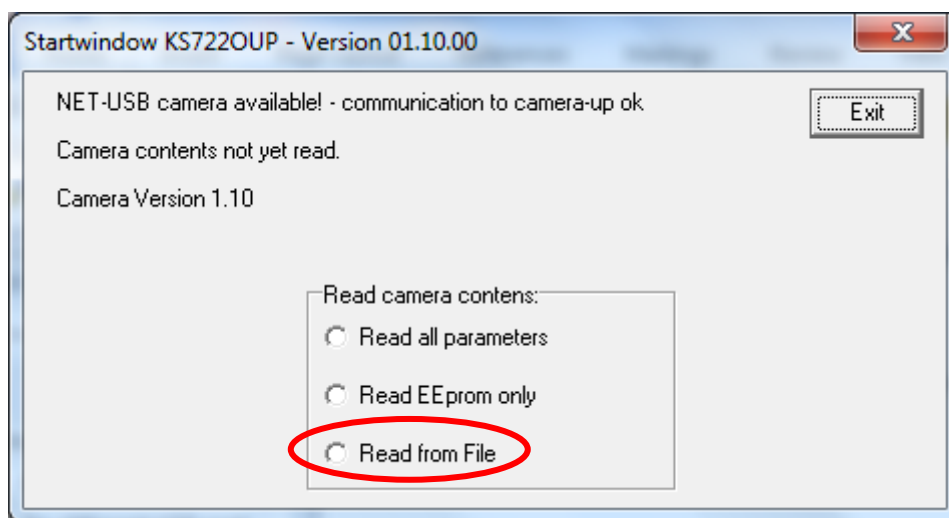


Figure 108

Restore camera parameters to factory configuration

4. Check “Read from File” on Figure 108. An open file window pops up as Figure 109. Select the file “Config 24-10-11.nsf” in the folder of “C:\Program Files\Keeler\Keeler Vantage Digital EV02\Camera Config\” for 32 bits Windows OS or “C:\Program Files (x86)\Keeler\Keeler Vantage Digital EV02\Camera Config\” for 64 bits Windows OS. Click “Open” to read the factory configuration file.

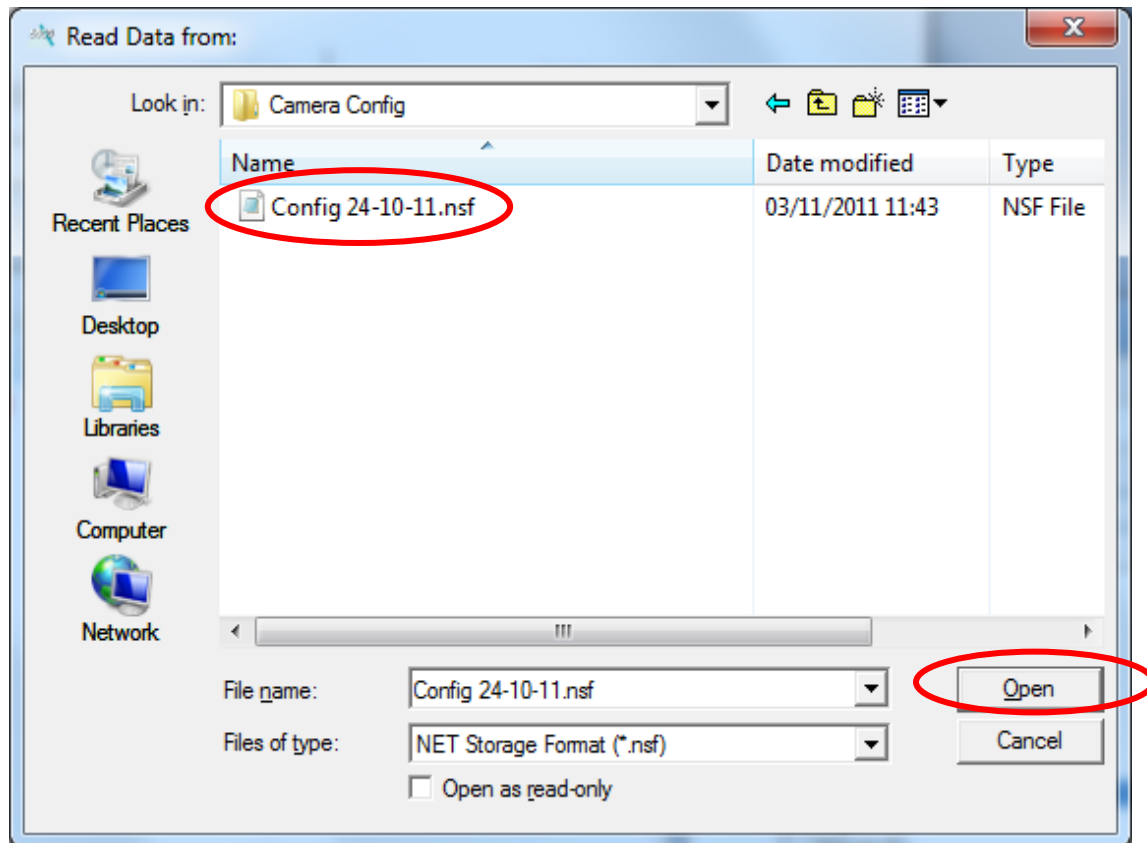


Figure 109

5. An "Eeprom Read Write" window opens as shown on Figure 110. Click "SaveToCam" to write the factory camera configuration parameters into the camera.

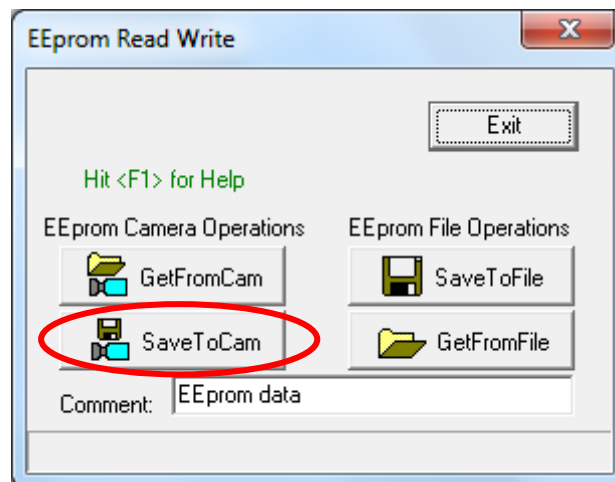


Figure 110

6. The tool is starting to write the parameters into the camera. This procedure may take more than 30 seconds. And the window title will change to "Eeprom Read Write (Not Responding)". Refer to Figure 111. This is normal.

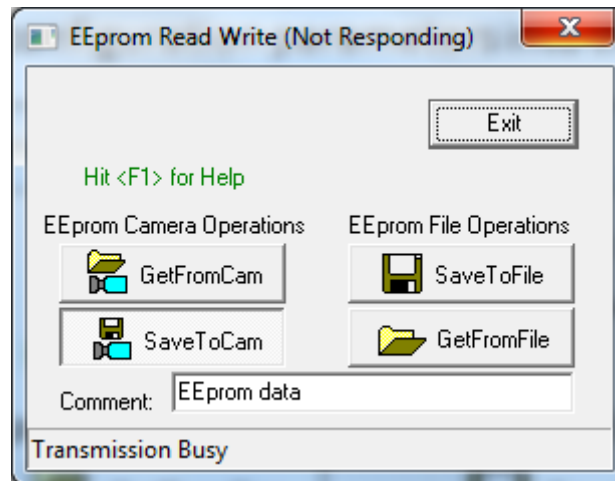


Figure 111

7. Wait until the window changes as shown on Figure 112. The camera factory configuration parameters have been written into the camera. Click "Exit" button to exit the restore procedure.

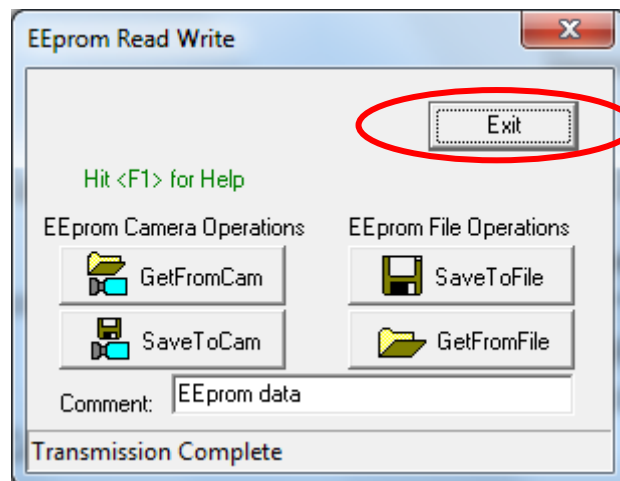


Figure 112

8. The camera adjustment tool window changes as shown on Figure 113. Click "Exit" to close the camera adjustment tool.

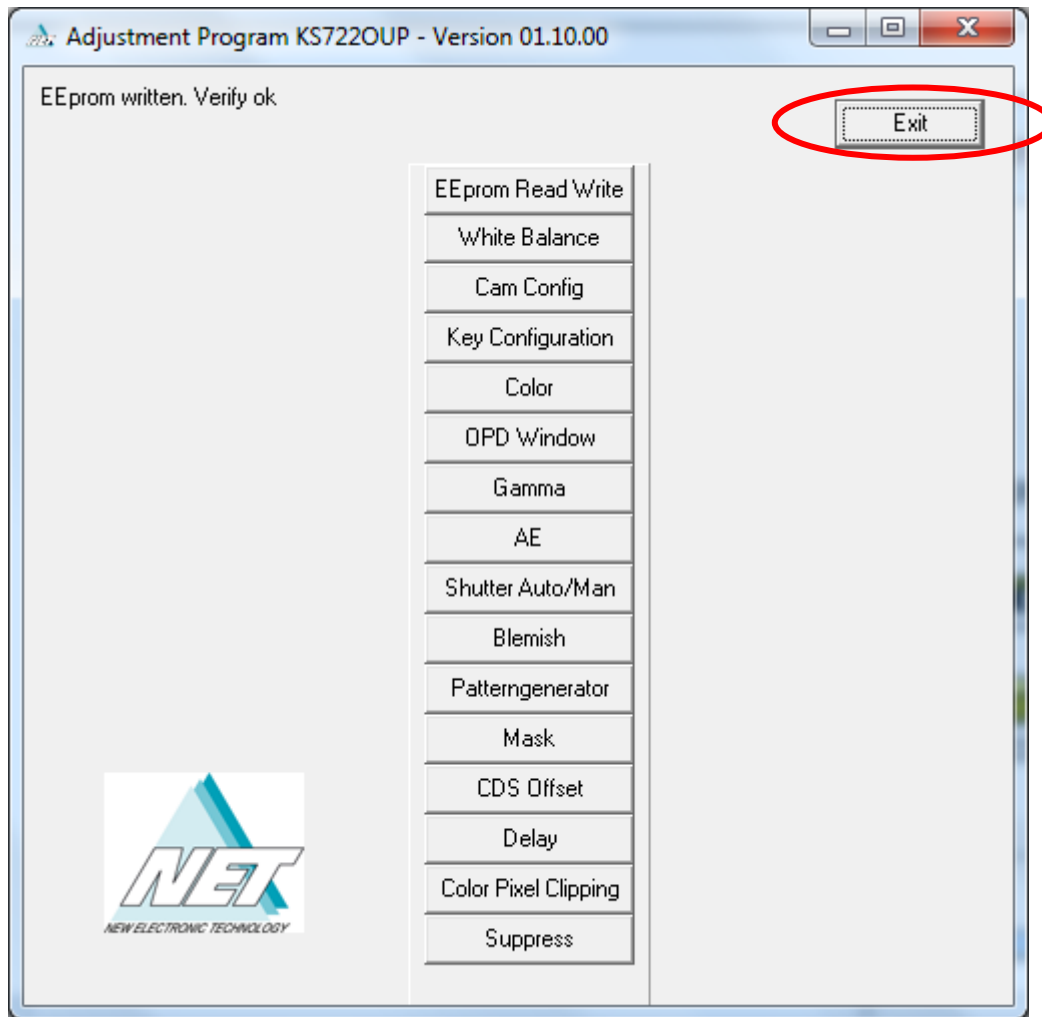


Figure 113

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Appendix A List of tested computers

No.	Computer Information				
	Manufacture	Model	CPU	RAM (GB)	Windows OS
1	Dell	Optiplex 780	Intel® Core2 Duo E8500 @3.16GHz	3.25	XP Pro SP3, 32 bits
2	Dell	Optiplex 780	Intel® Core2 Duo E8500 @3.16GHz	3.25	7 Pro, 32 bits
3	Dell	XPS L501X	Intel i5 M460 @2.53 GHz	3.74	7 Home Premium 64 bits
4	Dell	Latitude E5420	Intel i5-2520M @2.50 GHz	3.90	7 Pro SP1, 64bits
5	HP	Compaq DC5100	Pentium 4 2.80 GHz	0.99	XP Pro SP3, 32bits
6	TOSHIBA	Satellite L300-217 system unit	Intel T1600@1.66 GHz	3.0	Vista Home Premium, 32 bits
7	Dell	Precision PW470	Xeon 3.00GHz	3.25	XP Pro SP3, 32 bits
8	HP	Compaq 8100 Elite CMT PC	Intel® Core i7 870 @2.93 GHz	4.0	7 Pro SP1, 64bits
9	Sony	VGN-NW2ZF	Intel® Core2 Duo T6600 @2.2GHz	4.0	7 Pro SP1, 64bits
10	Dell	Latitude E6410	Intel i7 M640 @2.80 GHz	3.43	7 Pro, 32bits
11	Dell	Precision M450	Intel i5 M580@2.67GHz	7.86	7 Pro, 64bits
12	HP	Pro Book 4720s	Intel i5 M430@2.27	2.98	XP Pro SP3, 32 bits
13	HP	Compaq 8100 Elite CMT PC	Intel® Core i7 870 @2.93 GHz	4.0	7 Pro SP1, 64bits
14	Dell	Latitude E6410	Intel Core i7 M620@2.67GHz	3.42	XP Pro SP3, 32 bits