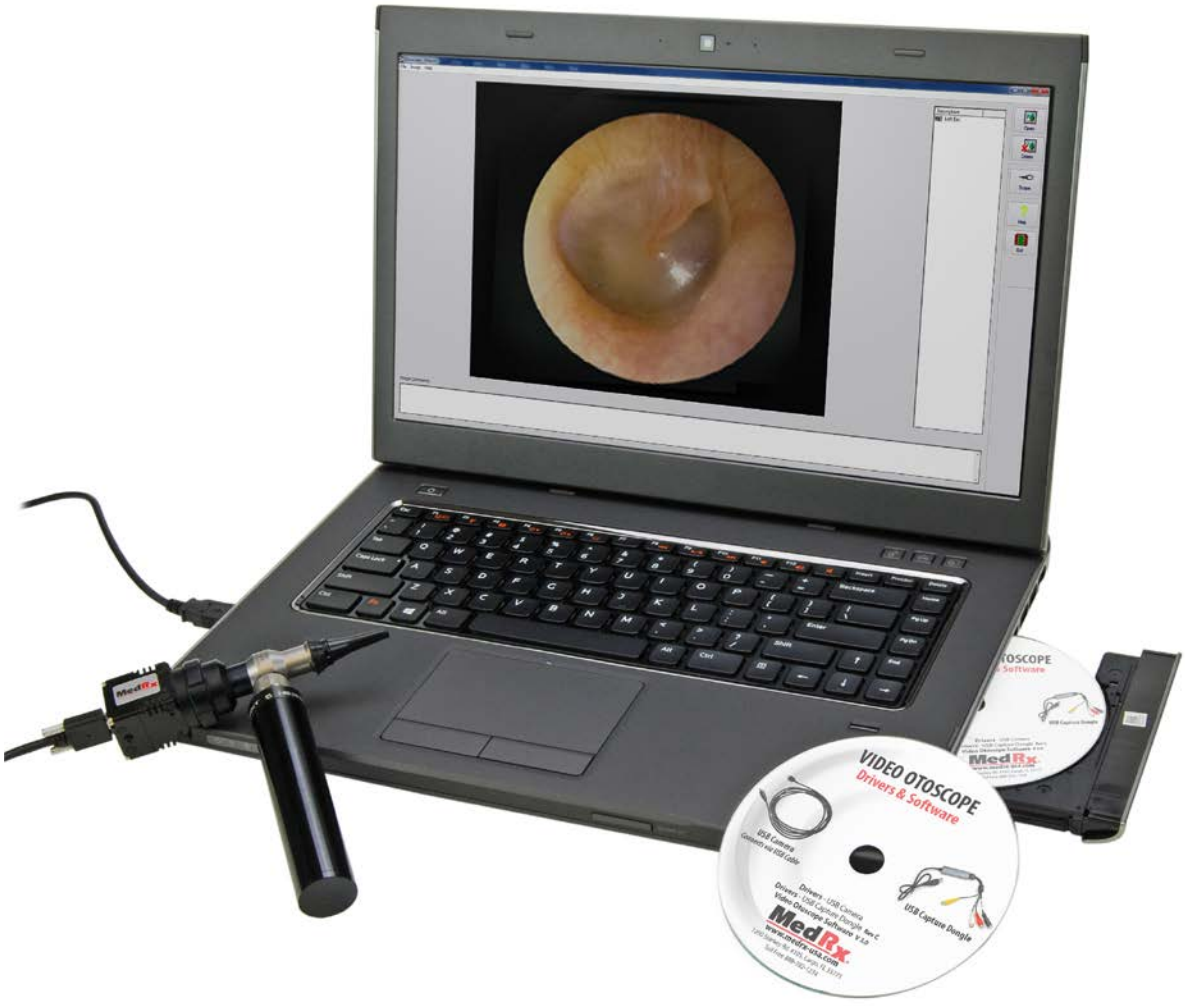
OPERATIONS MANUAL

Video Otoscope Software

Bringing Video Otoscopy To Your Computer



MedRx®

www.medrx-usa.com

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MedRx

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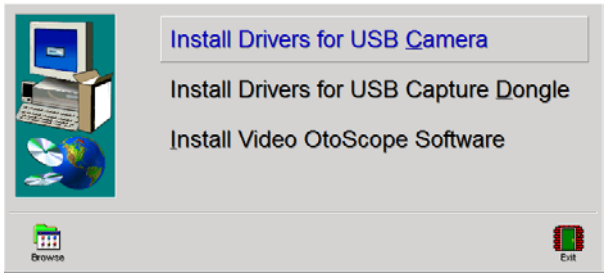
Driver Installation
USB Camera

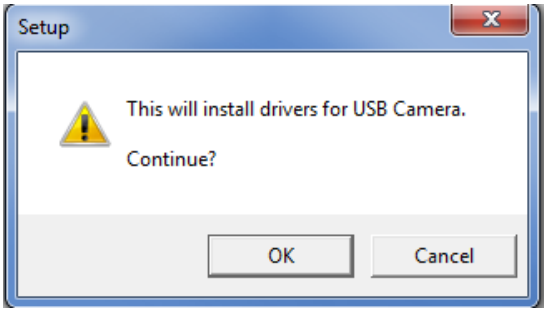
Go to page 13 for driver installation instructions if you are using Video Otoscope that connects via a USB Capture Dongle.

1. Connect the USB cable from the USB Camera to your computer.

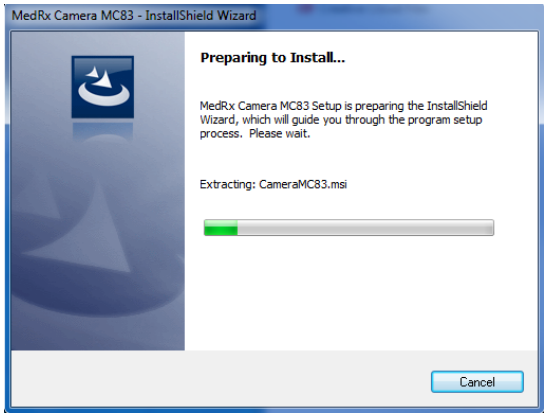


2. **Insert the** *Video Otoscope Drivers & Software* **CD-ROM into the CD drive.**
   - *If the Setup program does not automatically start, go to* ***my computer****,* ***double click on the CD to open then double click*** **Setup***.*

3. On the Driver Setup screen, **click Install Drivers for USB Camera.**

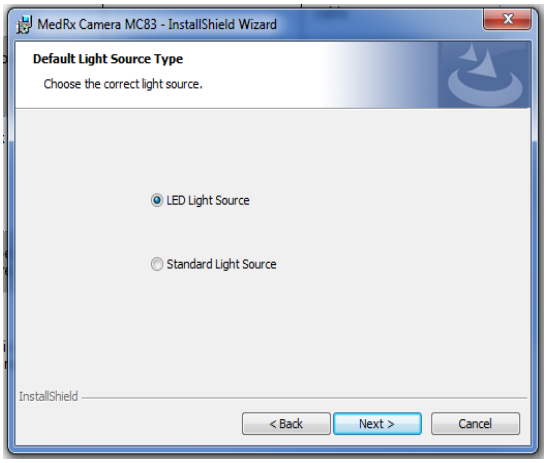


4. When this screen appears, click **Ok.**

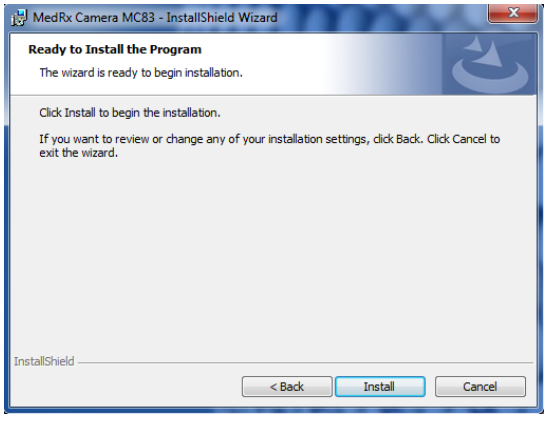


5. Wait for the InstallShield Wizard to finish preparing. (This window may take a few seconds to appear.)

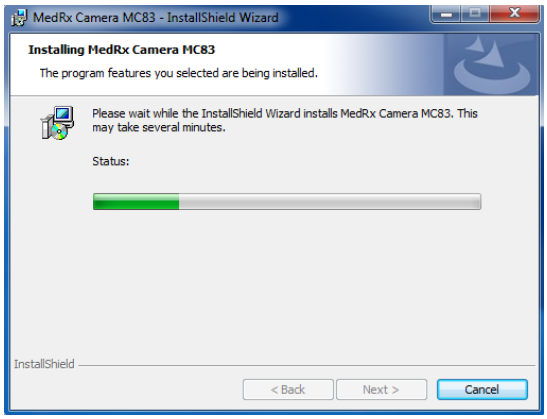
6. When this screen appears, click **Next.**



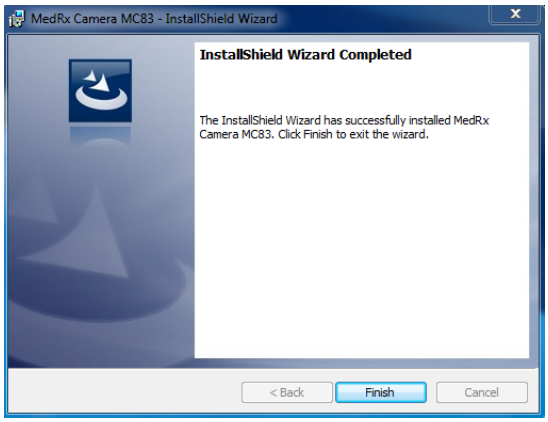
7. When this window appears choose which light source you have. Click **Next.**



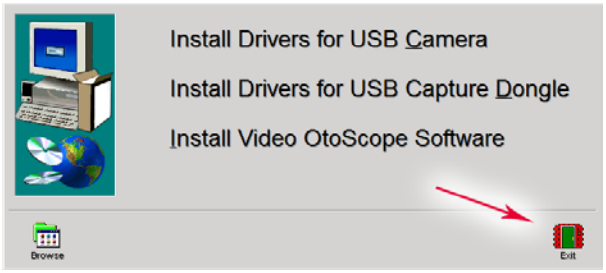
8. To begin installation click **Install.**



9. Wait for the InstallShield Wizard to finish**.**



10. When Installation is complete, click **Finish.**

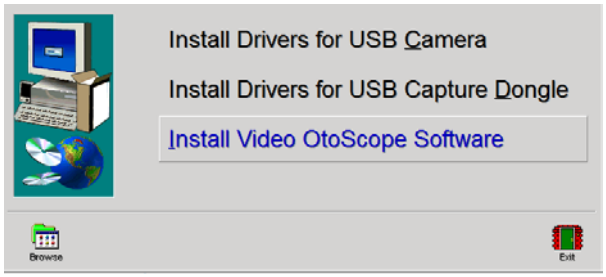


11. When the setup screen reappears click **Exit.**

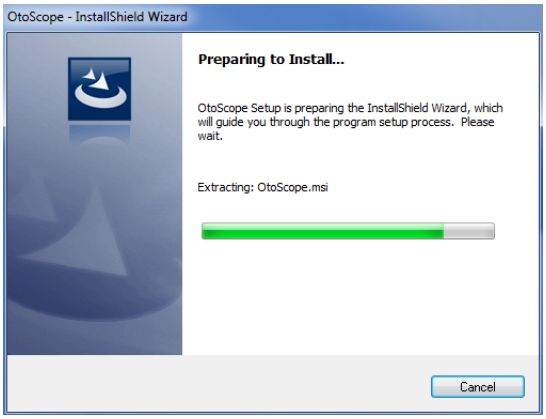
Installing the Video Otoscope Software
USB Camera

The MedRx Video Otoscope software may be incorporated into any AVANT™ software package. It is also available as a stand-alone application. When bundled with the AVANT software package, the Video Otoscope software is automatically installed. In this case, make sure you have installed the drivers. Driver installation instructions are on page 4 or 13 – depending on the camera you purchased.

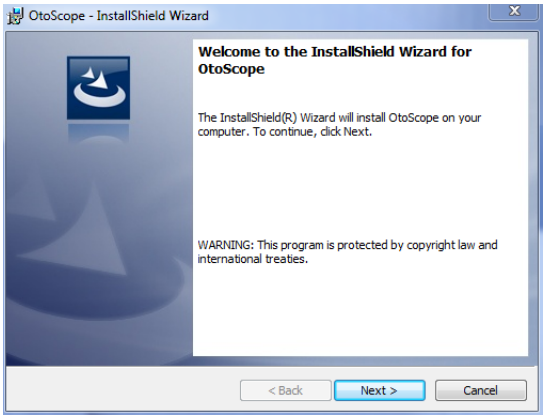
Stand Alone Video Otoscope Software Installation.



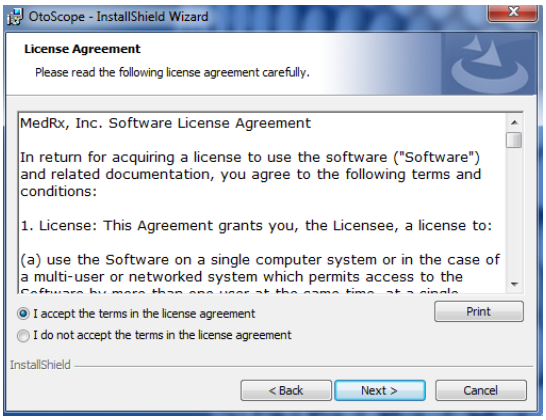
1. **Insert the** *Video Otoscope Drivers & Software* **CD-ROM into the CD drive.** Wait until the Setup program starts.
   - *If the Setup program does not automatically start, go to* ***my computer, double click on the CD to open then double click*** **Setup**..
2. On the Setup screen, choose **Install Video OtoScope Software**.



3. Wait for the InstallShield Wizard to finish preparing. (This window may take a few seconds to appear)



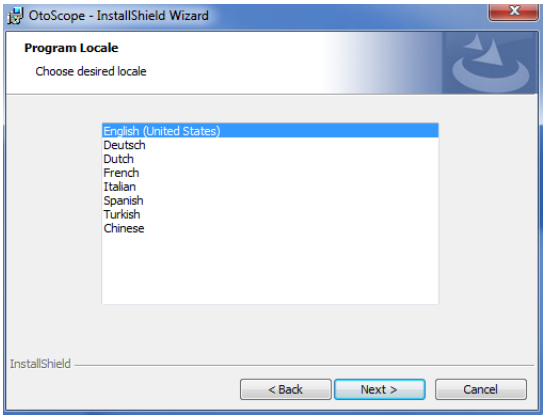
4. To Install the Otoscope Software, click **Next.**



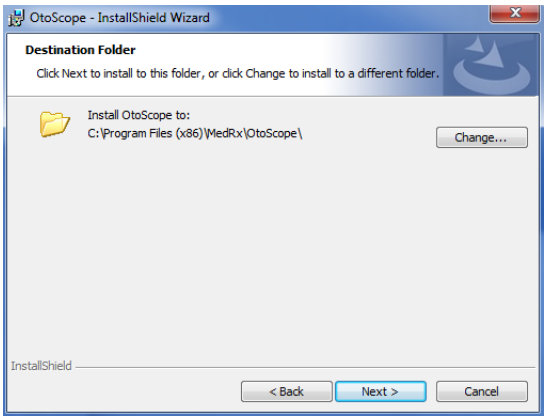
5. Read the Software License Agreement.

- Click **I accept...**
- Click **Next.**

- To make changes, click **Back.**



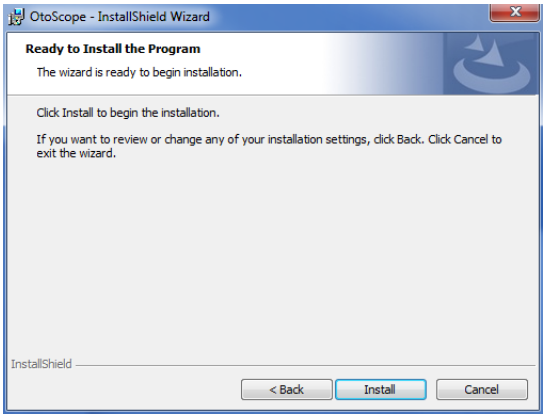
6. Choose a language. Click **Next.**



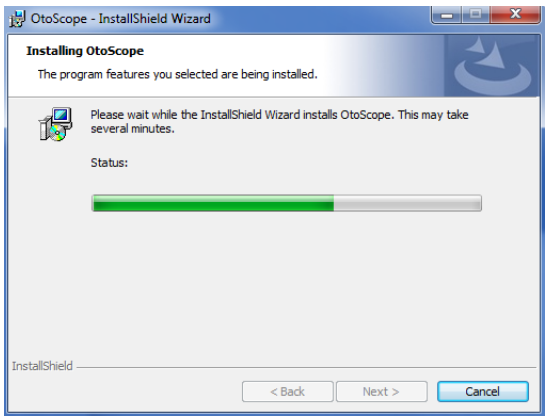
7. This screen summarizes the installation configuration.

- To continue, click **Next.**

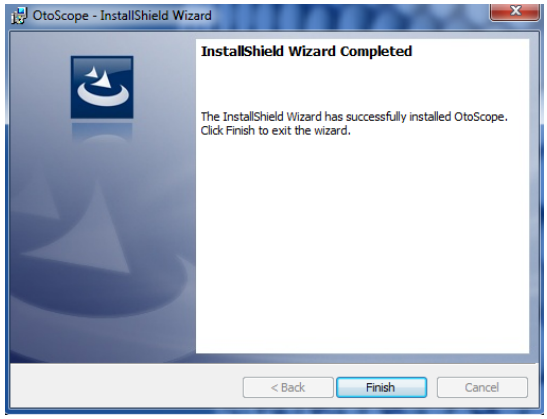
- To make changes, click **Back.**



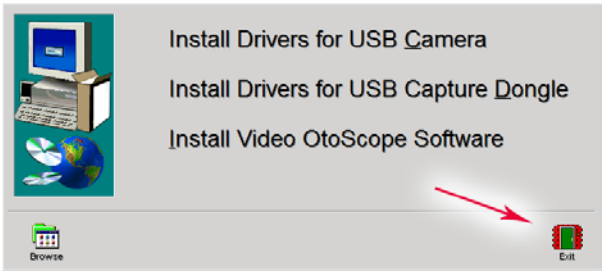
8. To start the installation process click **Install.**



9. Wait for the installation to complete.



10. This screen will appear when the installation is complete. Click **Finish**.



11. When the setup screen reappears click **Exit.**

Software Configuration

USB Camera

The MedRx Video Otoscope software can run stand-alone, through the AVANT family software, through NOAH™ or the TIMS® office system.

Launching the Software

Stand Alone or AVANT Family

1. **Double click** the MedRx Otoscope icon or select the Otoscope Icon from any AVANT family device shortcut on your Windows desktop.

NOAH and TIMS

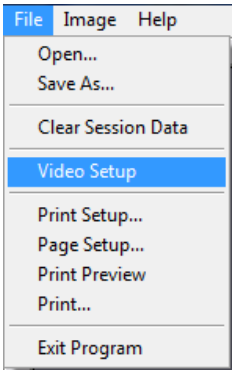
1. **Launch NOAH** and **select** the AVANT family device **Otoscope icon**.

Configuring the Otoscope Software (USB Cable)

Once the drivers are installed, you must configure the software to recognize the USB camera as follows:

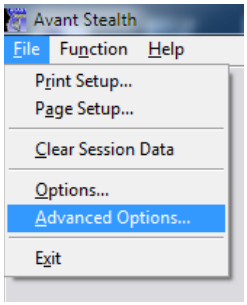
For Stand Alone software

2. From the main screen of the Otoscope software,
   - Click **File**.
   - Click **Video Setup**.

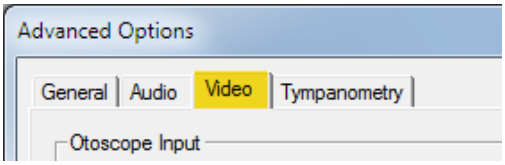


For Avant Family software

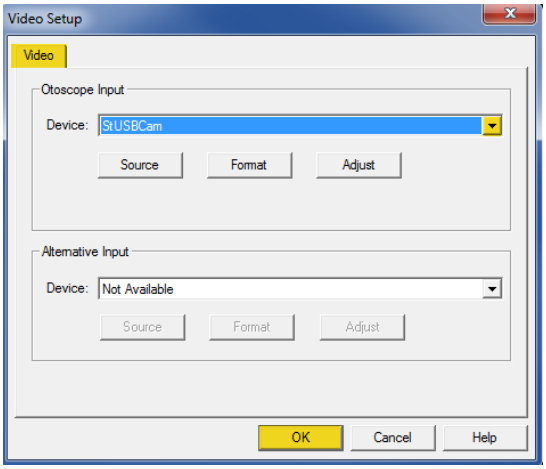
2. From the main screen of the Otoscope software,
   - Click **File**.
   - Click **Advanced Options**



   - Then Click **Video** tab



Applies to Stand Alone or the AVANT Family Software

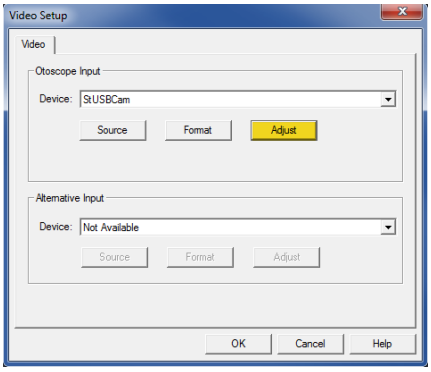


3. From the **Video Tab**:
   - Click the **Device** pull-down.
   - Select **StUSBCam**

4. Click **OK**

Adjusting Video Quality (USB Cable)

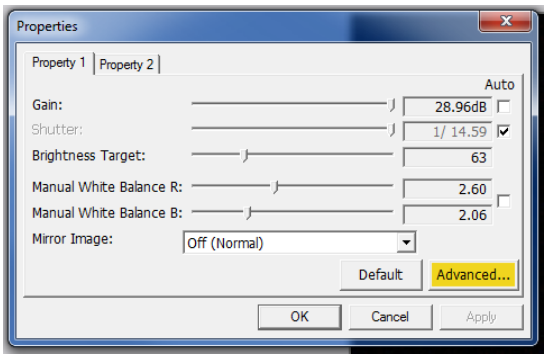
It is sometimes desirable to adjust the video quality of the Otoscope software.
To do this, follow the steps below:



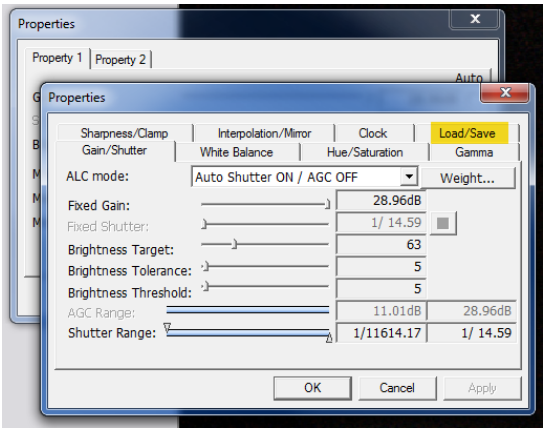
1. To open the **Video Tab**:

   - Click **File**.
   - Click **Video Setup**.

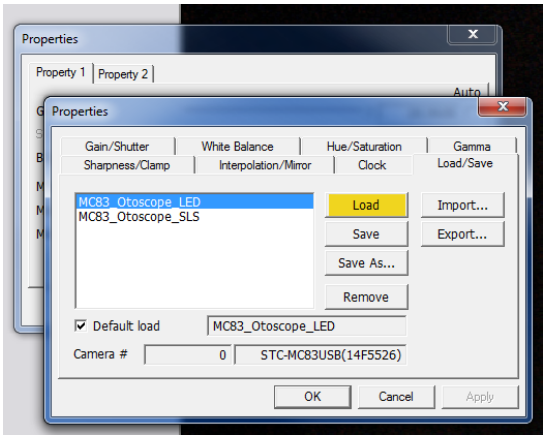
   - From the **Video Tab**
     Click the **Adjust** button.



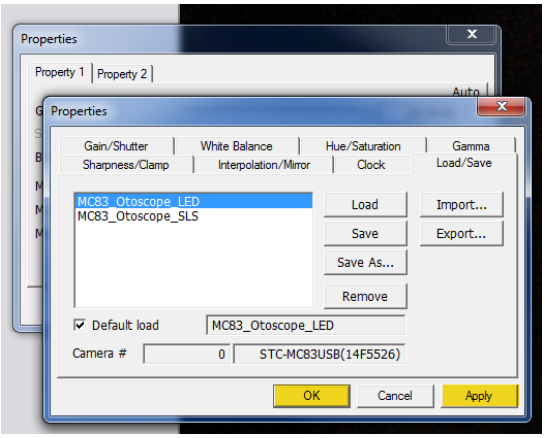
2. On the Properties screen, click on **Advanced.**



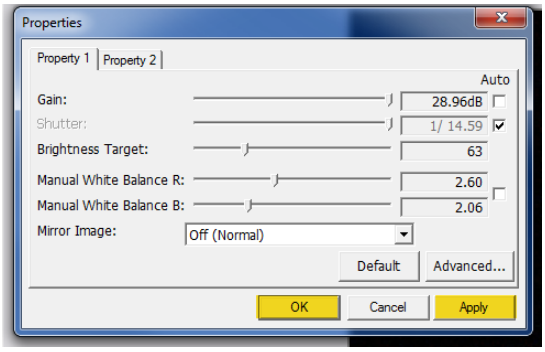
3. Click on **Load/Save.**



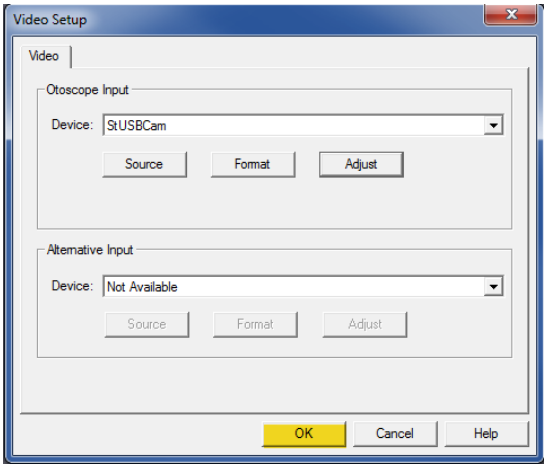
4. **Select your light source**, either LED or SLS (LED shown highlighted), then click **Load.**



5. Click **Apply** then click **OK**.



6. Click **Apply** in the Properties window, then click **OK** to complete changes.

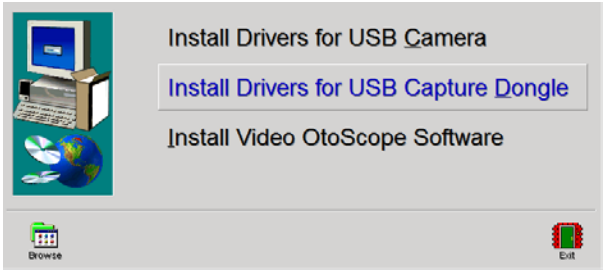


7. Click **OK** on the Video Setup window to finish.

Driver Installation
using a USB Capture Dongle

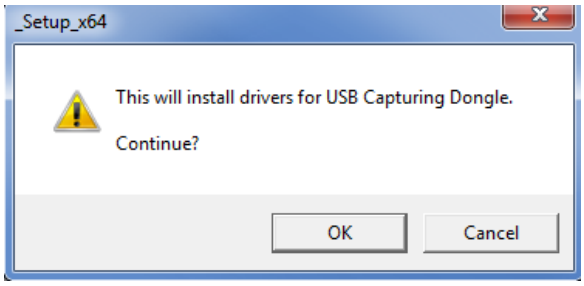
Go to page 4 for driver installation instructions if you are using Video Otoscope that connects via a USB cable.

1. Connect the USB Capture Dongle to a USB port on your computer.

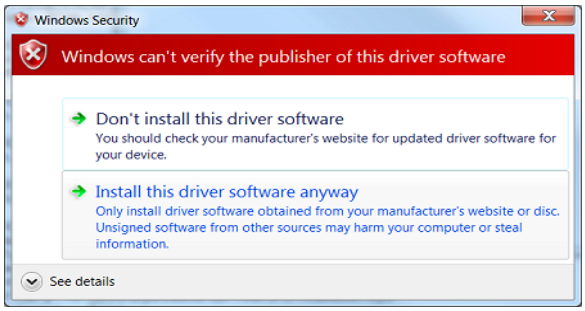


2. **Insert the** *Video Otoscope Drivers & Software* **CD-ROM into the CD drive**.
   - *If the Setup program does not automatically start, go to* ***my computer, double click on the CD to open then double click*** **Setup***.*

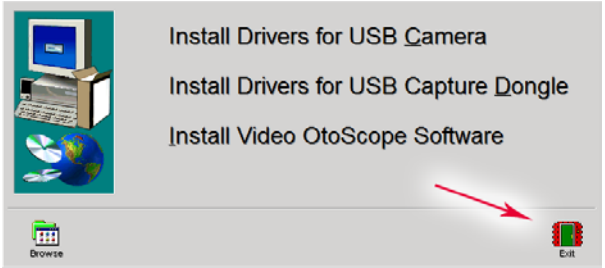
3. On the Setup screen, click **Install Drivers for USB Capture Dongle.**



4. When this screen appears, click **Ok.**



5. If this warning screen appears, click **Install this driver software anyway.**

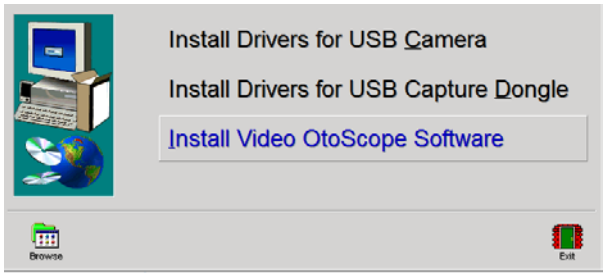


6. On the Setup Window click **Exit.** (This window may take a few seconds to appear)

Installing the Video Otoscope Software using a USB Capture Dongle

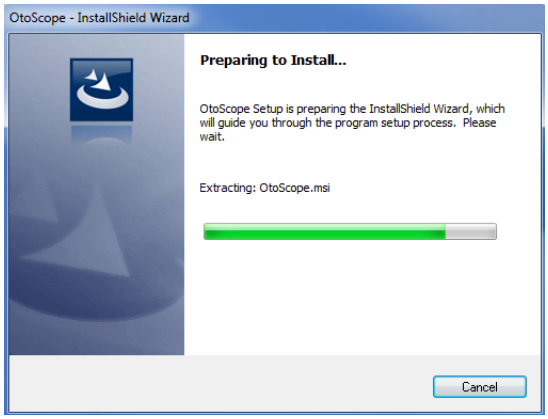
The MedRx Video Otoscope software may be incorporated into any AVANT™ software package. It is also available as a stand-alone application. When bundled with the AVANT software package, the Video Otoscope software is automatically installed. In this case, make sure you have installed the drivers. Driver installation instructions are on page 4 or 13 – depending on the camera you purchased.

Stand Alone Video Otoscope Software Installation.

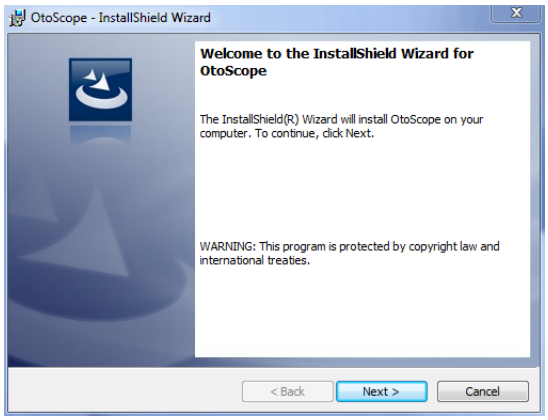


1. **Insert the** *Video Otoscope Drivers & Software* **CD-ROM into the CD drive.** Wait until the Setup program starts.
   - *If the Setup program does not automatically start, go to* ***my computer****,* ***double click on the CD to open then double click*** **Setup***.*

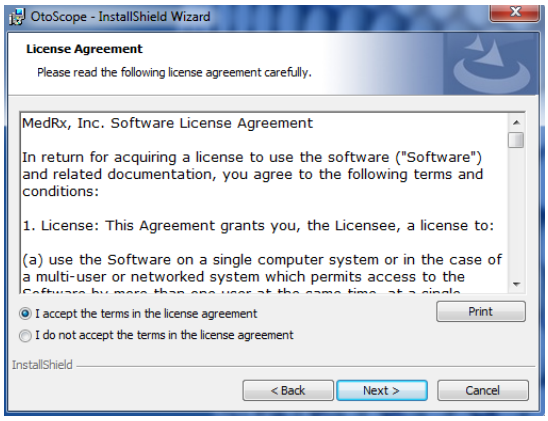
2. On the Setup screen, choose **Install Video Otoscope Software**.



3. Wait for the InstallShield Wizard to finish preparing.



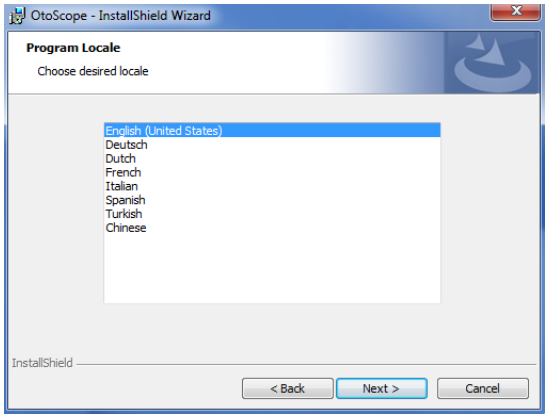
4. To Install the Otoscope Software, click **Next.**



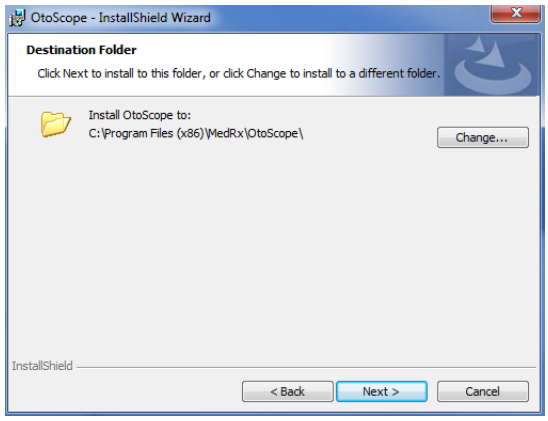
5. Read the Software License Agreement.

   - Click **I accept...**
   - Click **Next.**

   - To make changes, click **Back.**



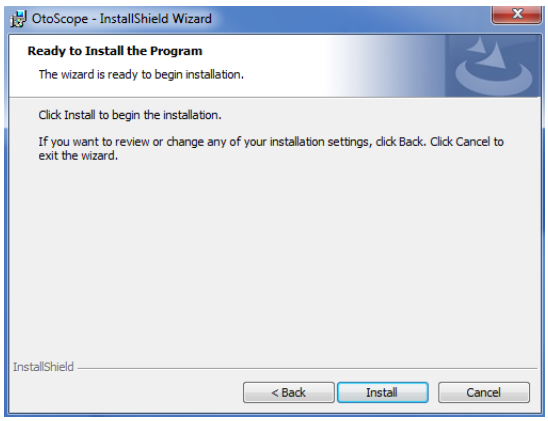
6. Choose a language. Click **Next.**



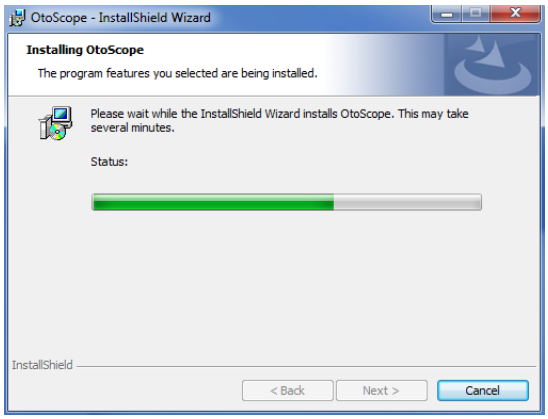
7. This screen summarizes the installation configuration.

   - To continue, click **Next.**

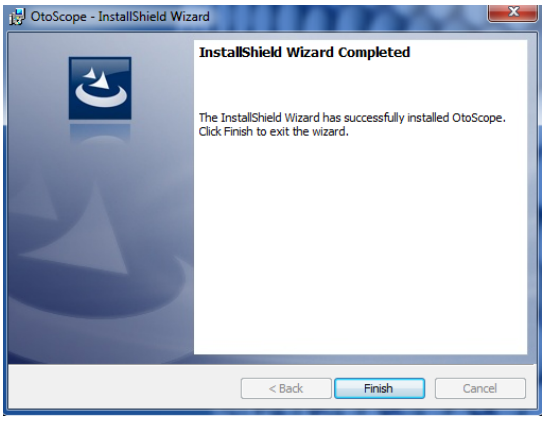
   - To make changes, click **Back.**



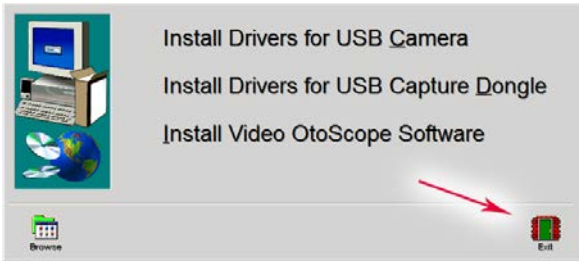
8. To start the installation process click **Install.**



9. Wait for the installation to complete.



10. This screen will appear when the installation is complete. Click **Finish**.



11. On the Setup Window click **Exit.**

Software Configuration
using a USB Capture Dongle

The MedRx Video Otoscope software can run stand-alone, through the AVANT family software, through NOAH™ or the TIMS® office system.

Launching the Software

Stand Alone or AVANT Family

1. **Double click** the MedRx Otoscope icon or select the Otoscope Icon from any AVANT family device shortcut on your Windows desktop.

NOAH and TIMS

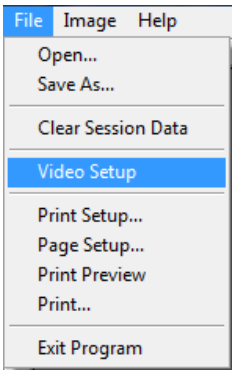
1. **Launch NOAH** and **select** the AVANT family device **Otoscope icon**.

Configuring the Otoscope Software (USB Capture Dongle)

Once the drivers are installed, you must configure the software to recognize the USB Capture Dongle as follows:

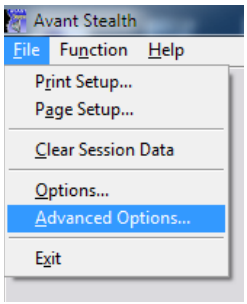
For Stand Alone software

2. From the main screen of the Otoscope software,
   - Click **File**.
   - Click **Video Setup**.

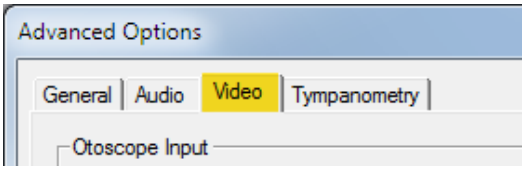


For Avant Family software

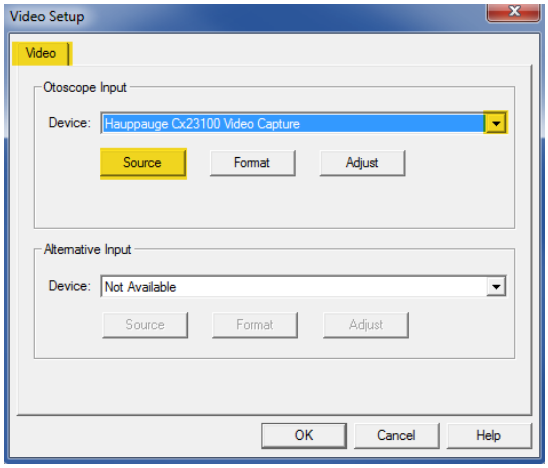
2. From the main screen of the Otoscope software,
   - Click **File**.
   - Click **Advanced Options**



- Then Click **Video** tab

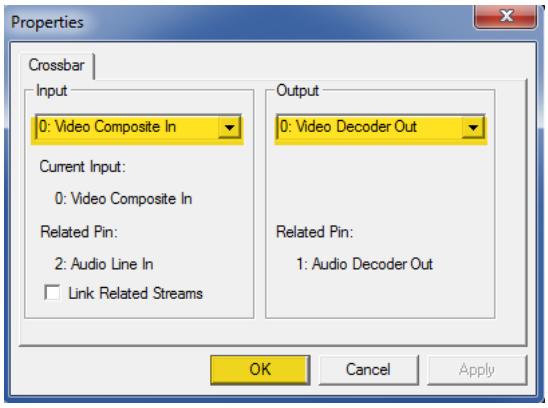


Applies to Stand Alone or the AVANT Family Software



3. From the **Video Tab**:
   - Click the **Device** pull-down.
   - Select the name of your Video Capture Device

4. In the same screen, click the **Source** button.

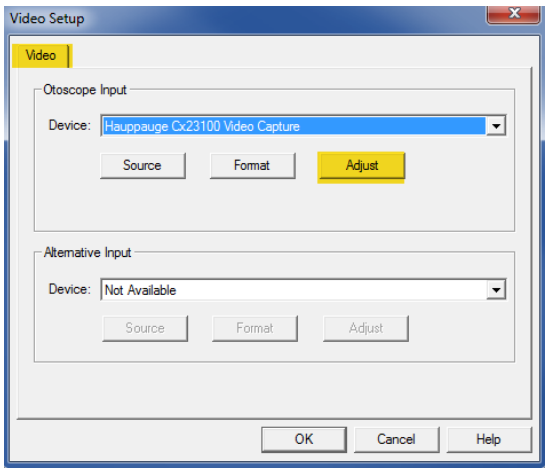


5. In the Properties window, use the pull-down menus to verify the following settings:
   - **Input = Video Composite In**.
   - **Output = Video Decoder Out**.

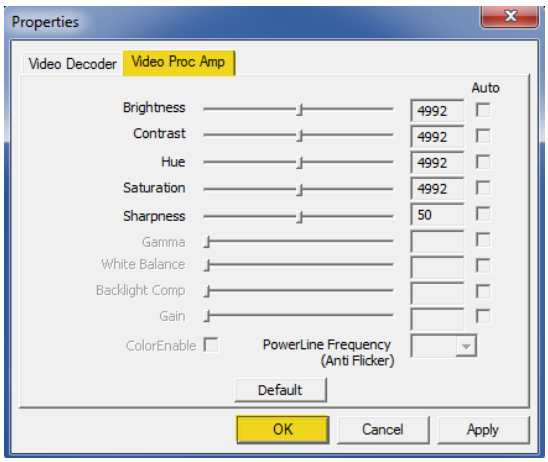
6. Click **OK** to complete changes. Click OK on the Video Setup window to finish.

Adjusting Video Quality (USB Capture Dongle)

It is sometimes desirable to adjust the video quality of the Otoscope software. To do this, follow the steps below:



1. To open the **Video Tab**:
   - Click **File**.
   - Click **Video Setup**.
   - From the **Video Tab** Click the **Adjust** button.



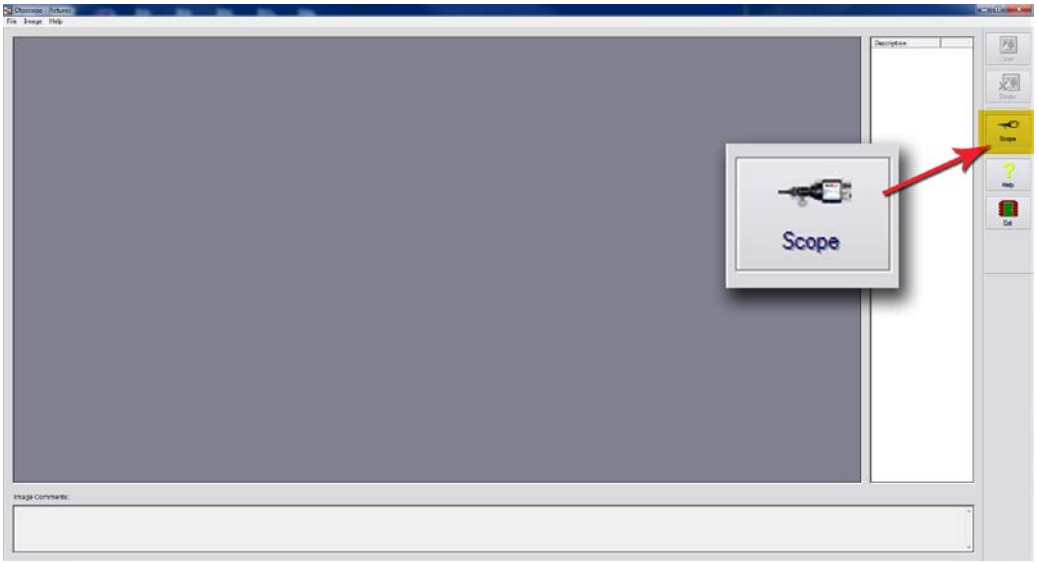
2. Click on the **Video Proc Amp** Tab.
3. Adjust the sliders as needed.
4. Click **OK**. Click OK on the Video Setup window to finish.
5. Repeat as needed to optimize the image on your particular system.

Using the Otoscope Software (Applies to all cameras)

Taking Pictures

Within NOAH™ or stand-alone

Always Use a clean speculum tip for each new patient.
Refer to the "Set-Up Manual" for additional cleaning information.



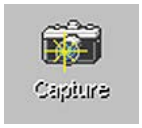
Click on the **Scope Icon** on the **Main Screen.**

The **Capture Screen** Appears.

Using the Otoscope Software (Applies to all cameras)

The Capture Screen

Within NOAH™ or stand-alone



There are three ways to take pictures:

1. **If you do not check either box:**
   When no items are selected,
   click on the Capture Icon to take one picture, the Main Screen appears.

2. **If you check Single Click Capture:**

   When you click the Capture Icon instead of immediately taking a picture, the program switches to the Single Click mode.

   All the icons will turn gray on the screen, indicating that they are inactive.

   You can now take a picture by pressing any key on the keyboard, clicking the left mouse button or pressing the foot pedal, the Main Screen appears.

3. **Or if you check both boxes.**

   When you click the Capture Icon instead of immediately taking a picture all the icons will turn gray, indicating that they are inactive.

   You can now take as many pictures as you would like in a row without returning to the Main Screen **by pressing any key on the keyboard, clicking the left mouse button or pressing the foot pedal.**

   To end the Single Click/Sequence mode, press the Esc key or the right mouse button.

   Press the Back button to return to the Main Screen to work with your pictures.

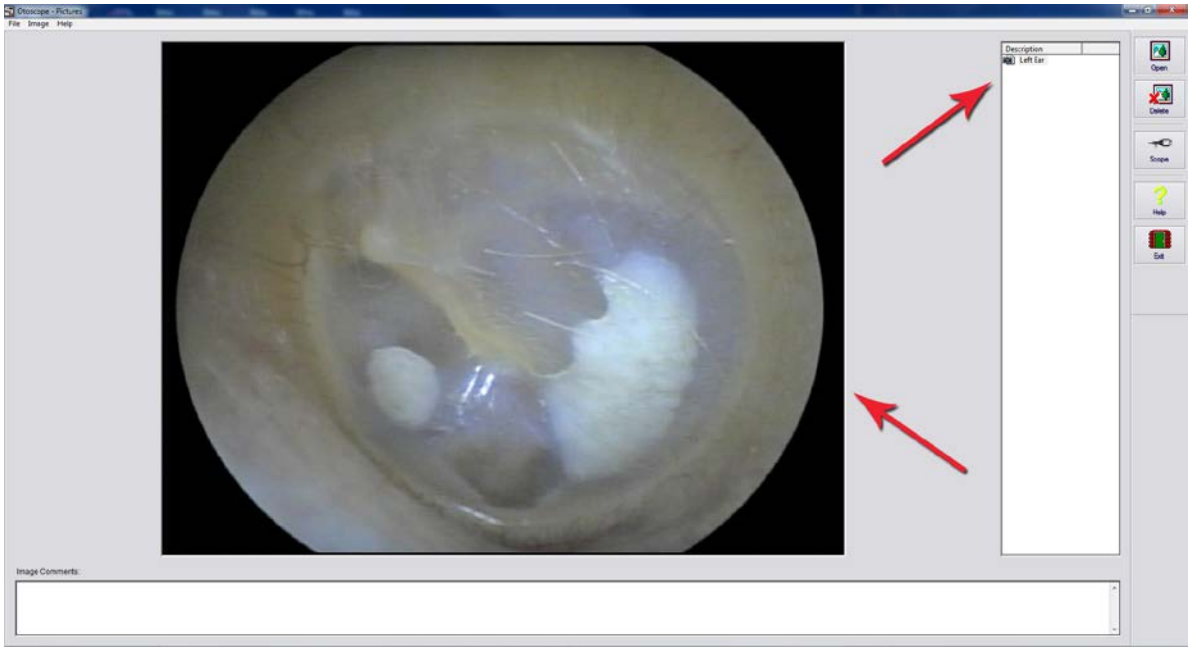
Naming your pictures:

Use the pull-down menu at the top of your screen. Select from the list provided or highlight box and type in any name.

Using the Otoscope Software (Applies to all cameras)

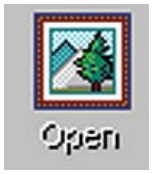
The Main Screen

Within NOAH™ or stand-alone



The Main Screen shows a list and preview of the captured images.

An image in the list can be renamed by selecting it, clicking the right mouse button, and choosing the Rename option from the menu.



Open Icon:
Opens the selected picture in the **View Screen** where you can enhance it.

Scope Icon:
Click to take a new picture.

Using the Otoscope Software (Applies to all cameras)

The View Screen

Within NOAH™ or stand-alone

This screen allows you to enhance your pictures.

Tool Bar

Use this button to enlarge the image.

Use this button to restore the image to the original size.

Use this button to maximize the image so that it occupies all available screen space.

Use this button to undo the last operation performed on the image.

Enhancing

Use this function to emphasize the details on the image.

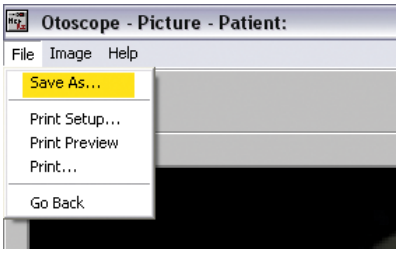
Use this function to blur the details on the image.

Use this function to create a shadow effect on the image. Best when used with monochrome pictures.

Use this function to reduce motion artifacts.

Saving Images

Using NOAH: When you exit the program you will get a box that asks “do you want to Save NOAH session?” Click **Yes**.



Not using NOAH: from the View Screen go up to the File Menu and choose Save As.
Save your images to your desktop in jpg or bmp formats.

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