Driver Installation (USB 2.0) and Software configuration manuals for Sopro Imaging, EagleSoft, and Dentrix Image 4.5
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Before connecting the docking station to the computer, it is important that you first make sure the computer does not automatically search windows update for the driver. This setting can be found under the “Hardware” tab in “System Properties”. You can get to the system properties window through either “Control Panel” and the “System” icon, or you can right click “My Computer” and click “Properties”: 

![Image of My Computer properties menu]

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1 - Driver Installation and Configuration (USB 2.0)
Then click the “Hardware” tab, and “Windows Update”:

Make sure you select “Ask me to search Windows Update every time I connect a new device” or “Never search Windows Update for drivers”:
Be careful not to select “If my device needs a driver, go to Windows Update without asking me”. The reasoning is that if you install the driver from Windows Update instead of the driver from the Sopro Imaging CD, the camera and docking station will not function properly with the computer. After completing the preceding steps, you may click “OK”, then “OK” again to get you out of system properties. You are now ready to install the driver. **Note: If using Dentrix Image, it is necessary to use a different driver than the one from the Sopro imaging CD. Please see the Dentrix install chapter (2.4).**

First, connect the docking station to a USB 2.0 port on the computer using the USB 2.0 certified cable provided with the docking station. If you must extend the length of the cable, contact Acteon Imaging Support for specifics on what equipment must be used. Once you connect the docking station to the computer, you should get the “Found New Hardware Wizard”:

![Found New Hardware Wizard](image)

Select “No, not this time”, then click “Next >”.
At this point, you will get to the step that states “If your hardware came with an installation CD or floppy disk, insert it now.” Do not click anything. Instead, simply insert the Sopro Imaging CD and wait. The wizard will automatically advance to the next step. As the wizard advances, it will search for a driver for "USB 2820 Video". The following dialogue will appear:

**Hardware Installation**

![Image of software installation warning]

The software you are installing for this hardware:

USB 2820 Video

has not passed Windows Logo testing to verify its compatibility with Windows XP. *(Tell me why this testing is important)*

**Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.**

[Continue Anyway] [STOP Installation]

Select “Continue Anyway”. Currently, there are no certification programs in place for Intra-oral cameras, therefore, Microsoft will not give us a Windows Logo - testing signature.
Next, you should get the following screen:

If so, click “Finish”. You have now successfully installed the driver.

Now to configure the driver, we’ll use AMCAP, as this is a universal program that can be used to configure the driver without installing any software. To open AMCAP, you’ll need to browse the Sopro Imaging CD. First, open “My Computer”. Then, right click the “Sopro Imaging” CD and click “Open”:
Open the “Drivers SOPRO Usb1” folder:

Then, double-click the “telamcap” file:
After AMCAP opens, click “Devices” and make sure “USB 2820 Video” is selected:

If the check is not next to “USB 2820 Video”, click it. Once “USB 2820 Video” is selected, click “Options” and “Video Crossbar...”:
Change the input from “2: Video Composite In” to “3: Video SVide In”

Click “OK”, then click “Options” and “Video Format (Capture) ...”:
Change the “Color Space / Compression” from “YUY2” to “I420”:

Also, make sure the “Output Size” is “640 x 480”. If you do not have the option of “640 x 480”, check to make sure your USB ports are USB 2.0 compliant. Click “OK”. You may now close AMCAP. You have now successfully installed and configured the drivers for the Sopro Intra-oral camera docking station.
2 – Software Installations

Included in this section:

2.1 – Sopro Imaging Configuration

2.2 – EagleSoft 13 with Practice Management

2.3 – EagleSoft 13 Imaging stand-alone

2.4 – Dentrix Image version 4.5 with Driver Install
2.1 – Sopro Imaging Configuration

To set up the camera for use with Sopro Imaging, you must first install and configure the drivers (instructions in section 1). Then, after you have installed the drivers (and the Sopro Imaging program) the following steps are taken to get the camera to function with Sopro Imaging.

Please note: If using Sopro Imaging version 1.30, you will have a “Video” tab in place of “Movie” and “Camera”.

First, load the Sopro Imaging program. Then, select a patient. Then, click “Patient” and “Setup”:

Click the “SOPIX®” tab, then “No SOPIX®”:

![SOPIX Imaging Setup Window](image-url)
When you click “No SOPIX®”, about half the options on the tab should go away. Next, click the “Movie” tab, and make sure the “Video source” is set to “USB 2820 Video”:

Click “Capture pin”, and make sure the “Color Space / Compression” is set to “I420” and the “Output Size” is set to “640 x 480”:
Repeat the same process for the “Movie” tab and the “Camera” tab. If you are using the Dock 595 USB2, please ignore the next step. If you are using a different docking station that has memory (like the Dock MUSB or Dock MUSB), then you must also place a check mark in the box next to “Return to live after a capture”:

Next, click “OK”. This will exit “SOPRO-Imaging Setup” and put you back to the images screen for the patient. To test the setup, now click “Capture” and “Intra oral camera”:

If you have an image, you have successfully completed setup with Sopro Imaging and the Sopro Intra-oral camera. If you still need help, please contact Acteon Imaging Support.
2.2 EagleSoft 13 with Practice Management

First, if you haven’t done so already, install EagleSoft Practice Management software with the EagleSoft Imaging module. Patterson Technical Support can help you with this. Next, install and configure the Sopro USB 2820 drivers (reference chapter 1.1 of this manual).

Now, to configure EagleSoft to accept input from the camera, first open into Patterson EagleSoft 13 Practice Management. You may be in either Practice Management mode, or Clinical mode to set up the camera. Click “File” then “preferences”:

Practice management mode:

Clinical mode:
Next, click the “X-ray” tab. Then click “Video” under “Device Properties: *”:
Change “* Capture Card:” from “Standard Video For Windows Device” to “Standard Windows Driver Model Device”. Then make sure the “* Default Device:” is set to “USB 2820 Video”. Then click “Save”:

You can also click “✓ OK”. You have now configured EagleSoft to work with a Sopro Intra-oral camera. Please note that the touch on the camera may not save images until you reboot the computer.
2.3 EagleSoft 13 Imaging stand-alone

First, if you haven’t done so already, install the EagleSoft Imaging software stand-alone package. Patterson Technical Support can help you with this. Next, install and configure the Sopro USB 2820 drivers (reference chapter 1.1 of this manual).

Now, to configure EagleSoft to accept input from the camera, first open EagleSoft. You may have to log in. Click “File” and “General Preferences”:

![General Preferences menu in EagleSoft]
Next, click the “X-ray” tab. Then click “Video” under “Device Properties: *”. 
Change "* Capture Card:" from "Standard Video For Windows Device" to "Standard Windows Driver Model Device". Then make sure the "* Default Device:" is set to "USB 2820 Video". Then click "Save":

![Video Capture Properties dialog box]

You can also click "✓ OK". You have now configured EagleSoft to work with a Sopro Intra-oral camera. Please note that the touch on the camera may not save images until you reboot the computer.
First and most importantly, be sure that you do not install the ‘USB 2820 Video’ driver provided on the Sopro Imaging CD. We will use a different driver for the installation into Dentrix Image 4.5. Before connecting the docking station to the computer, you must also make sure that the computer does not search windows update for the driver (reference beginning of chapter 1 of this manual). After configuring the computer so it does not search windows update, you must now download the driver. First, go to http://www.gendex.com. On the left side of the web page, click “Downloads”. Then scroll down to the “Drivers” section of the next page, and click on “8.GxPicture”. Next, you should get a “File Download” window. Click “Save”:

![File Download - Security Warning](image)

We recommended that you save the file directly to the desktop. Once downloaded, open the file.
Next, you may get a security warning when you try to open the file. If so, click “Run”:

![Security Warning Dialog](image)

After clicking “Run”, you should get the “GxPicture Driver Suite – InstallShield Wizard”. Click “Next”. Then click “I accept the terms of the license agreement”, then “Next” again. At the Following screen, you should have the imaging devices selection. Choose “Gendex Digital Cameras” and click next:

![Select Products Dialog](image)
Next, click “Install” and wait for the process to complete. Once complete, it will ask you to reboot the machine. Select “Yes, I want to restart my computer now.” Then click “Finish” and wait for the machine to reboot. Once the machine completely re-starts, you must now close the “GxVideoApp” application located in the taskbar next to the clock. The icon looks like this ( ). You can close this program by right clicking the icon and clicking “Exit”, then click “Yes” when it asks you “Do you want to exit application completely?”. Next, you’ll need to move the GxVideoApp out of the Startup menu into the Programs menu. First, find the file in the “Startup” menu group:

![Startup Menu](image)

Now RIGHT CLICK and hold and drag it to the programs menu (without being in a sub-menu) and release. You’ll get a choice to “Copy Here”, “Move Here” or “Cancel”. Click “Move Here”. Now double check to make sure the program is closed (no [ ] is next to the clock) and the program has been moved to the “Programs” menu and is no longer in the “Startup” menu:

![Programs Menu](image)

If all checks out properly, you may now begin to set up and configure the Gendex ez1 camera drivers. Begin by plugging in the USB 2.0 certified cable provided with the docking station. First, connect it to the docking station, then connect it to either a powered USB 2.0 hub or directly to the computer itself.
After you plug in the USB connection, you should get the "Found New Hardware Wizard". Click "No, not this time" then "Next >":

![Found New Hardware Wizard](image1)

At the next screen, click "Install the software automatically (Recommended)" then click "Next >":

![Found New Hardware Wizard](image2)
The next screen will give you a choice to either “Continue Anyway” or to “Stop Installation”. Click “Continue Anyway”:

![Hardware Installation]

And as the last step to installing the driver, click “Finish”:

![Found New Hardware Wizard]

Next you’ll need to configure the driver. For this process, we suggest you use “Amcap” from Microsoft. -->
To use "Amcap", you must first acquire the program. Usually it can be downloaded from the internet. It is also located on the Sopro Imaging CD (for the purpose of this manual, we will use it from the Sopro Imaging CD).

First, insert the Sopro Imaging CD into the CD-rom drive. If you get the "SOPRO-Imaging setup" screen, click "Quit". After inserting the Sopro Imaging CD, open "My Computer". Then, right click the "Sopro Imaging" CD and click "Open":

![Image of CD with right-click menu]

- Sopro Imaging (G):
  - Autoplay
  - Search...
  - Open
  - Explore
  - Scan for Viruses...
  - Sharing and Security...
  - Eject
  - Copy
  - Create Shortcut
  - Properties
Open the “Drivers SOPRO Usb1” folder:

Then, double-click the “telamcap” file:
After AMCAP opens, click “Devices” and make sure “Gendex eZ1 USB2 Camera” is selected:

Next, click “Options” and “Video Crossbar...”:
Change “2: Video Composite In” to “3: Video SVideo In”, then click “OK”:

You are now done configuring the driver, and you may now close AMCAP. Next, you’ll need to open the “GxVideoApp” program to activate the capture feature. Find the link in “Programs” or “All Programs” in the “Start” menu:
After opening the program, the “GxVideoApp” icon will re-appear in the corner of the screen, next to the clock. Right-click the icon and click “Select Device”:

Then choose “Gendex eZ1 USB2 Camera” and click “OK”:

At this point you may get a live video image window. If not, right click the “GxVideoApp” icon again and choose “Live Video” » “Start”:
When the live video window appears, you should see either color bars (like below) or an image from the camera:

Notice how the bottom left hand corner of the window says “Live Video”. Now lift the camera and wait for a live image to appear. Once a live image appears, we want to now freeze one image only once. Do this by running your finger over the SoproTouch (_visible_in_image) located on the back of the camera handpiece. Make sure to do this only once. After doing this once, look for “Image Freezed” where it said “Live Video” before:

You may now close the video window by clicking the X in the top right hand corner (_visible_in_image). Then close the entire application again by right clicking the icon in the taskbar (_visible_in_image) and clicking “Exit”:
Click “Yes” when the window appears asking: “Do you want to exit application completely?” Next, open Dentrix into the patient chart. Select a patient. Then open into Dentrix Image. Do this by clicking the intra-oral camera icon on the bar underneath the menu bar. Click “Utilities” and “Preferences…”:

Click the “Capture Device” tab, and select “Gendex eZ1 Camera”:

Next, click the “Footswitch” tab. When you click on a different tab, you may get the following screen. If so, click “Yes”:
The following is how the Footswitch tab should look. If not, make the appropriate adjustments:

![Footswitch Tab](image)

If everything looks as it does above, click “OK”. Next click “Acquire” and “Capture Full Screen(s)”:

![Dentrix Image Easy Intraoral - DE](image)

Everything should now work properly. Function: when using a dock with memory (Dock MUSB or MU-USB), the first touch will freeze. Then touch three times (wait a second between each touch) to save the image and go back to live.