



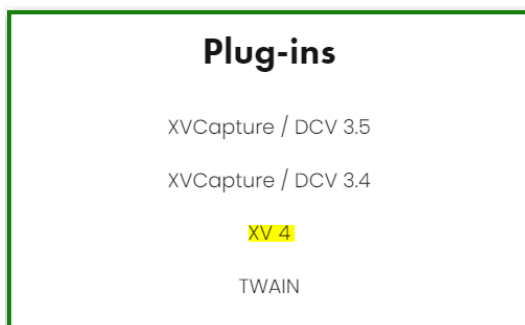
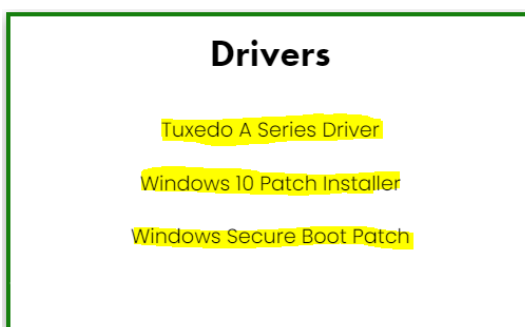
# Instructions for Installation

Operating System: Windows 10 and 11

Imaging Program: Xray Vision version 4 (and rebrands)

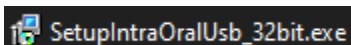
**Files needed:** (files can be found at [www.tuxedoimaging.com](http://www.tuxedoimaging.com) under Support & Downloads)

- Tuxedo A Series Driver
- Windows 10 Patch Installer
- Windows Secure Boot Patch
- XV 4



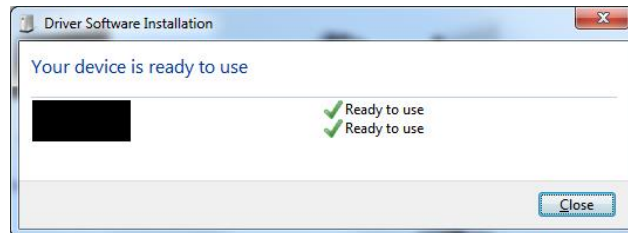
**Step 1:** Ensure that the Tuxedo A Series sensor is **NOT** plugged into the PC.

**Step 2:** Install the Tuxedo A Series Driver (*filename seen below*)



*This process may prompt for a restart of the PC, if that happens, restart the PC before moving forward.*

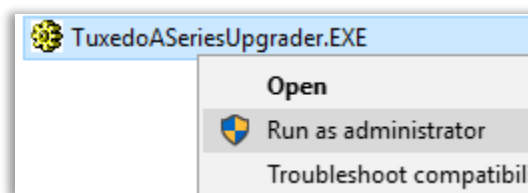
**Step 3:** Plug in the Tuxedo A Series sensor into the computer's USB port directly. You will likely be prompted with a pop-up of Windows searching for the driver software.



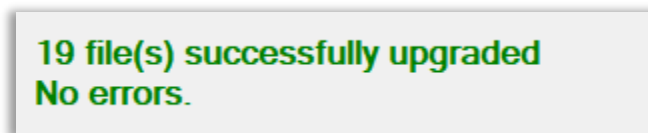
- You will need to wait for both green checkmarks to appear, before you can close this prompt. This process may take several minutes.

**Step 4:** Run Xray Vision (or rebrand) as administrator, let the program open, and then close the program with the 'X' in the upper right-hand corner.

**Step 5:** Install the Tuxedo Upgrader, by running it as Administrator. (*filename seen below*)



- Click "Next" in the installer window until, and "Yes to All" until "Finish" is no longer greyed out.
- Verify there were no errors.



- Click "Finish"

**Step 6:** Run Xray Vision (or rebrand) and go into the Toolbar at the top, select **Tools >**

**Hardware Options > TuxedoASeries**, and then use the following recommended setup for each of the tabs in the following screenshots.

**General** | GBC | Default Calibration | Sensor Configuration | Custom Path for Calibration Files

Show switch sensor button  
 Close hardware between each capture  
 Enable undereposure detection  
 Make corners black      Added corner:

Enable logging  
 Save diagnostic images  
 Close hardware after layout capture is completed

**What type of image should be returned?**  
 Low Contrast       High Contrast

**What type of image processing should be applied?**  
 Normalize       Adaptive Normalize  
 Laplace Edge Enhancement      Mask Size: 3x3      Factor: 3

**Apteryx General Enhancement (Almg.DLL) filters**

Enhance Local Contrast (CLAHE)      Scale = 5; Clip = 3.80        
 Adaptive Normalize      Low = 0.002; High = 0.002        
 Median Blur      Mask Size: 3x3  
 Sharpen Mask      Mask Size: 19x19      Factor:   
 Gauss Blur      Mask Size: 3x3

**General** | **GBC** | Default Calibration | Sensor Configuration | Custom Path for Calibration Files

**GBC adjustments are used to compensate for radiation variations in your digital x-ray equipment**

**Posterior**      **Anterior**  
 Brightness:       Brightness:   
 Contrast:       Contrast:   
 Gamma Correction:       Gamma Correction:

**General** | GBC | Default Calibration | **Sensor Configuration** | Custom Path for Calibration Files

Auto rearm      Hardware Timeout: 300  
 Enable image binning

**XRay Detection**  
 Detection Mode: XVIS detection      XVIS detection threshold: 250 mV

**Acquisition**  
 Integration Mode: Max between TWI and X det      Integration Time (ms): 3000  
 Gain: 1.5

**Chain offset**  
 Chain offset: Computed by COC      Manual chain offset (mV): 0



**Step 7:** Press **OK** until you are back to the main screen.



**Step 8:** To obtain the calibration files for your Tuxedo sensor, please contact Tuxedo Imaging support.