Instructions for Installation

Operating System: Windows 7

Imaging Program: Xray Vision version 4 (and rebrands)

> **Note:** *Windows 7 is no longer a supported Operating System from Microsoft. Support for Windows 7 was discontinued in 2020 and receives no further security updates to the operating system. This in turn, makes Windows 7 a security risk, and is no longer considered to be HIPPA compliant.*

Files needed: (files can be found at www.tuxedoimaging.com under Support & Downloads)
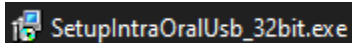
- Tuxedo A Series Driver
- XV 4

DRIVERS

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

PLUG-INS

- XVCapture / DCV 3.5
- XVCapture / DCV 4
- 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*)

SetupIntraOralUsb_32bit.exe

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.
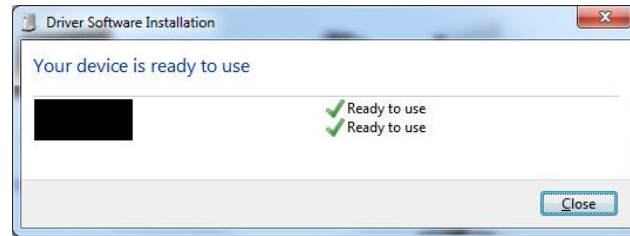

- You will need to wait for both green checkmarks to appear, before you can close this prompt. This process may take several minutes.

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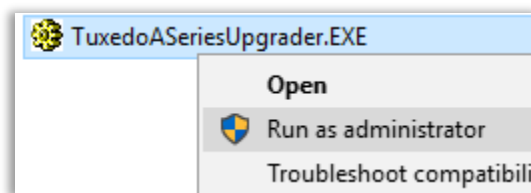
- Click "Next" in the installer window until, and "Yes to All" until "Finish" is no longer greyed out.
- Verify there were no errors.
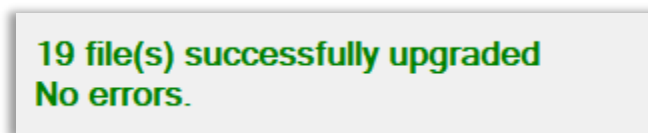
- Click "Finish"

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.

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

☐ Show switch sensor button
☐ Close hardware between each capture
☐ Enable underexposure detection

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

☑ Make corners black   Added corner: 0

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: 3×3   Factor: 3

Apteryx General Enhancement (Almg.DLL) filters
☐ Enhance Local Contrast (CLAHE)   Scale = 5; Clip = 3.80   Edit
☑ Adaptive Normalize   Low = 0.002; High = 0.002   Edit
☑ Median Blur   Mask Size: 3×3
☑ Sharpen Mask   Mask Size: 19×19   Factor: 15
☑ Gauss Blur   Mask Size: 3×3

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
Brightness: 0
Contrast: 0
Gamma Correction:
0.40

Anterior
Brightness: 0
Contrast: 0
Gamma Correction:
0.40

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

☐ Auto rearm
☐ Enable image binning

Hardware Timeout   300

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.