



X-Mind Unity Installation Checklist

To help ensure that your new X-ray is properly installed the first time, we have created an Installation Checklist for all customers including X-ray dealers and installers. Please read this document and send a reply E-mail to Austin Pinnella at apinnella@dentalfocus.biz to acknowledge that you have read this in full.

Dental Focus™, LLC recommends only selected, full-service, independent X-ray dealers who are licensed in your state, and who understand the local regulatory process. Independent installers should be fully insured. The installer will bill you directly for installation, giving the installer full ownership for the work that they do. Dental Focus™, LLC keeps records on previous customer experiences with individual installers. Dental Focus™, LLC does not quote prices for X-ray installers' installations. This would be like quoting a price for a dental procedure over the phone. The fact is, you do not know until you look. Our experience is that locking in installation costs leads to corner cutting and poorly installed equipment. Dental Focus™, LLC also requires installers to stop the job and speak with the hospital owner and/or Dental Focus™, LLC as concerns come up.

Installation requires a **dedicated 120-volt line**, which must be **hard wired on a 20 AMP breaker**. **Plugging an X-ray into a wall outlet is unacceptable and leads to damaged equipment**. See **page 24-27** of the attached **Installation Manual**. Overloaded power leads to a shorter life of all your equipment and possible line fluctuation error codes while you are working on anesthetized animals. Many dental suites are already using overloaded power strips for the up to 10 outlets used in most dental areas. Wires from the power source to the X-ray are not provided. **NOT USING A HARD WIRED DEDICATED POWER LINE WILL VOID YOUR WARRANTY.**

The X-ray unit weighs about 60-lbs but when extended it can be up to 900-lbs of torque on the wall. For this reason, you need to have **studded load bearing walls** or **masonry walls**. You may need blocking, provided mounting plates, or plywood to add more rigidity to the wall. The X-ray cannot be mounted on aluminum studs that are not engineered to support this load. Sheet metal screws loosen over time and will result in a drifting X-ray. OSHA specifically prohibits you from holding a drifting X-ray arm while in use. Masonry walls cannot have furring on them but are otherwise fine to mount on. Prefabricated islands are not structural and will not support the arm. If you and the X-ray installer chose to customize an installation that does not comply with the above recommendations that agreement would be between you and the installer.

New construction: Please let us look at your blue prints ahead of time. More times than not, we find that the plan lacks what is needed for a well-designed dental area. **USB cables need be to run at the same time as the dedicated power**. Keep USB cords away from the electrical lines to avoid interference.

Other options include:

- Remote switches** are available and, if needed, they should be ordered with the system. Check with your state on how far you need to be from the tube head. The cord provided gives you 13.77 feet from the wall that the X-ray is mounted on.



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- Firing light** to warn when an X-ray is in use. This may be required in Canada.

Notes Regarding Scheduling Installation & Things to Note on Day of Installation:

- Prior to your installation, your software should be preloaded by the **Sopro Support Team 1-877-422-8366 option 3**. This will allow the installer to take test shots.
- Schedule the installation on a day **when you are available to test the unit and be sure that you test the unit prior to the installer's departure**.
- Make sure the arm**, which has 2 adjustments points, **has been adjusted prior to installer's departure**. It is best to position the head to area of the table where animal's head is for testing the arm.
- You have been supplied with an **arm adjustment tool**. Please mark this tool with a piece of tape indicating it as an **arm adjustment tool** and save in a safe place. Do not let installer take it with them or throw it in the trash.
- Important: If you purchased a **X-Mind Unity (XMU) with the Sopix Inside, the sensor's USB cord should be wired at the time of the installation**. The USB cord is also in the box with the Sopix sensor. This USB cord should be inside the arm and put into the wall or off to the side so that it does not get pulled on.
- The XMU has a **short round cone** on it at the time of delivery. Please use the short round cone provided. The Sopix Sensor will have an extra rectangular cone in the box. The rectangular cone is NOT what we need for Veterinary use.
- State laws vary greatly. Please contact the same people who inspect your full body X-ray and tell them you intend to purchase a new dental X-ray. Please document what is required by your state and whom you spoke with. Your installer or Dental Focus™, LLC can help in the states where paper work is required in advance. **The final responsibility for X-ray compliance lies with the veterinary clinic.**

Additional Notes to Installers:

- We have a DC-X-ray. This means we store power in the system when the unit is turned off. If we disconnect a Molex connection after the unit is powered, even with the power turned off it will throw a surge of power. This will result in chard Molex or damaged Molex connection. If you wait a few minutes the system will power down.



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- Before the wall mounted dental X-ray generator can be installed, a licensed electrician has to run a dedicated 120v line from 20-amp breaker to the actual site. An actual size template for installation is provided for locating the position of the power. Running a cord along the wall to a box is not code. These connections should run behind the wall to the location.
- The sensor is integrated into the tube head. This means the sensor box has a **USB cord** that needs to be run in the arm early in the installation process.
- Wires are all **quick connects** so that it is simpler than the old unit. It does require a **snake** to get some of the wires where they need to be. I use electrical tape and leave a rat-tail on the end. The tape will protect the wires as you pull them and also give you something to grab. I have found that snaking the wires is the most difficult part of the installation.
- Make sure all the clips for the USB cord in the arm are connected.** A common call we get is having **Error Code 105** or **222**. Both **Error Codes** mean the USB wire is not connected or has pulled loose. Please check the USB cord in the tube head where the Sopix Sensor connects. Before attaching the sensor move the arm and apply pressure to the USB cord in the scissor arm. Make sure the USB cord is free and does not move when the arm is extended.
- The **scissor arm** above the tube heads **needs adjustment**. This can take 100 turns to get it correct.
- With each new installation, a calibration should be done on all X-rays. Please see page 88 of the installation manual.
- Please review the attached **Installation Manual**.
- For **SOPRO Technical Support** call **1-877-422-8366 Option 3**.

Our goal is to cover all the bases with you ahead of time to ensure your success with your new dental radiography unit.

Thank you for working with Dental Focus™, LLC.

Sincerely,

Jim Merritt

Dental Focus™, LLC

Office: (908) 968-3553

SOPRO Technical Support: 1- (877) 422-8366 Option 3

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