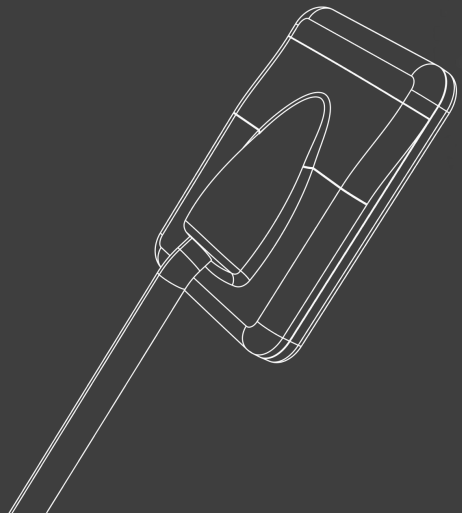
Digital Intraoral X-ray Sensor

Photon-counting technology



Quick Start Guide

Contents

I. Package List

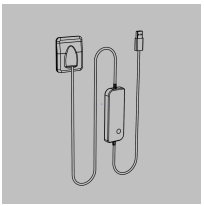
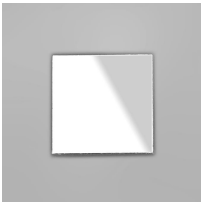
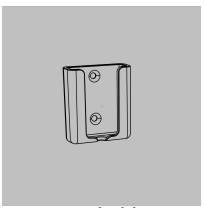


Image sensor

U Disk



Aluminum plate



Sensor holder

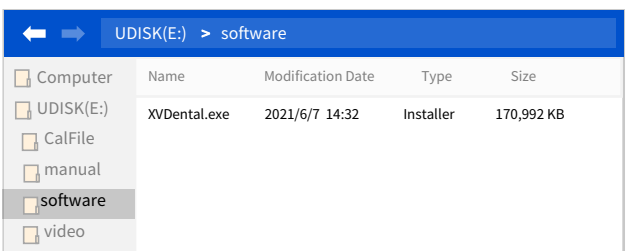
Stabilizer

Disposable protective sleeve

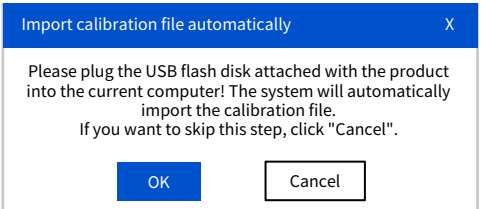
II. Software Installation

Note: 1. This software supports Windows 7 SP1, Windows 8 and Windows 10 (Official version only). Keep the anti-virus software off to prevent it from blocking the installation .
2. Keep the U Disk connected to the computer during software installation.

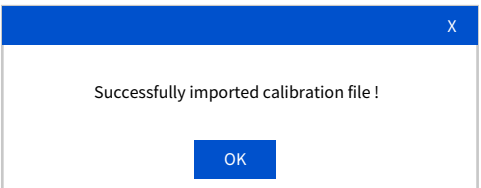
Step 1: Open the U Disk, double-click the "XVDental.exe" installer in the "Software" folder, and perform operations accoring to the prompts.



Step 2: When the software installation is about to end, the "Import Calibration File Automatically" window will pop up. Click "OK" to import the calibration file.



Step 3: Click "OK" for automatic calibration, and proceed to the next step until the software is installed.



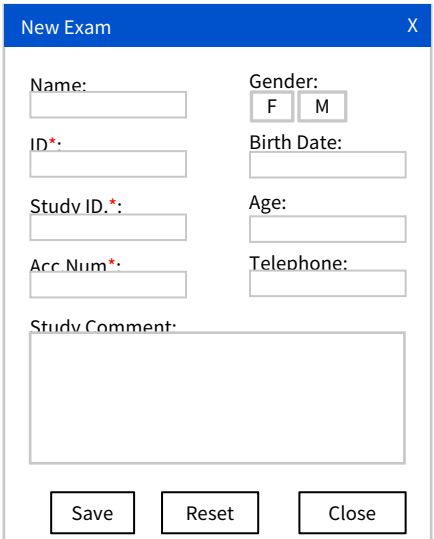
Note: 1. If you are not satisfied with the images collected after automatic calibration, or if the sensor has been used for more than half a year, it is recommended that you use manual calibration to re-calibrate the software. For more details of manual calibration, please refer to **Appendix 1: Manual Calibration.**

2. After installation, the software can be used for 30 days without being activated. Activate the software as soon as possible to obtain other functions permissions of the software. For details on software activation, refer to **Appendix 2: Software Activation**.

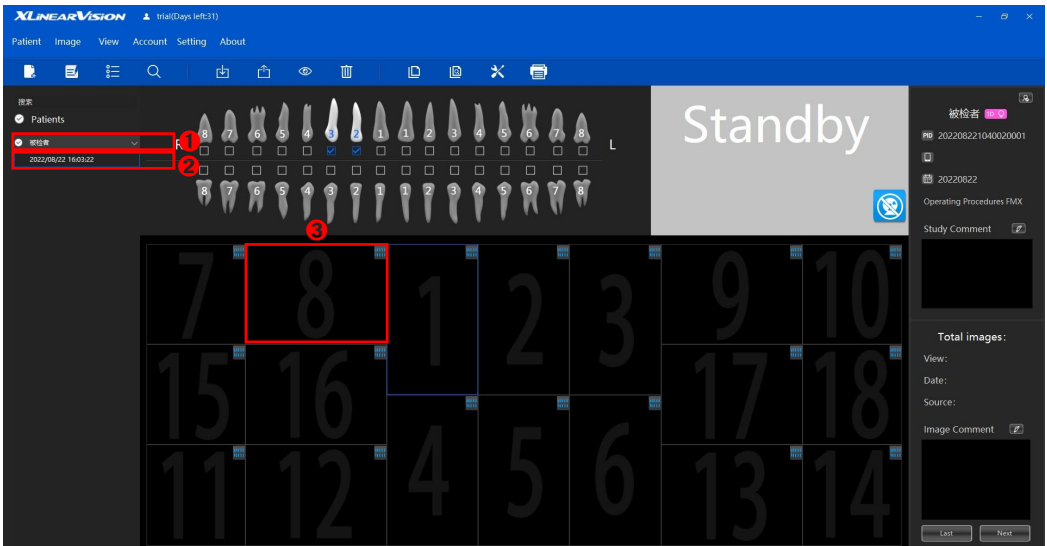
III. Shooting

Step 1: Connect the sensor with the computer via the USB port,and make sure the indicator turn green after connection.

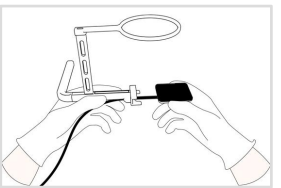
Step 2: Double click the software icon to start the software and proceed to the acquisition page. Click the ‘New Exam’ icon and fill in the examinee information.



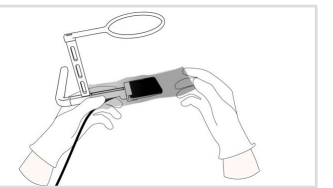
Step 3: Choose [Patients]-[Date]-[View] on the acquisition page :



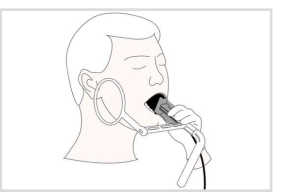
Step 4: Take out the stabilizer and mount the sensor to the stabilizer as shown in the figures. Put on a disposable protective sleeve, and set the position before shooting.



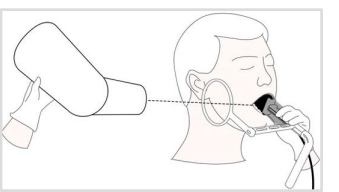
Mount the sensor to the stabilizer



Envelop the sensor with a disposable protective sleeve

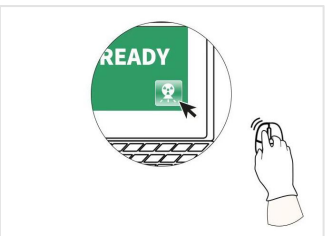


Put the sensor into the patient's mouth and position the patient and the sensor

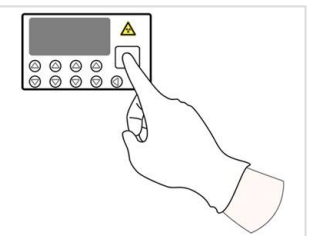


Adjust the angle of the X-ray machine

Step 5: Click the "Exposure" button or the acquisition page. When the "Exposure Available" appears in the software message bar, press the exposure switch on the X-ray machine within 15 minutes. The image will pop up in 4 ~5 seconds.and the image acquisition is completed.



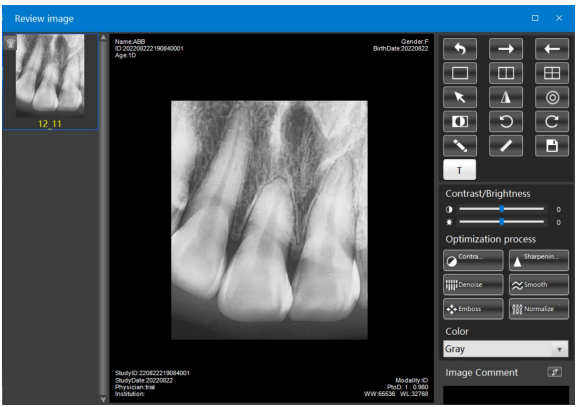
Click the "Exposure" button , and the screen displays "Exposure Available"



Manually press the "Exposure" button to start image acquiring.

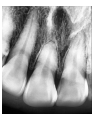
IV. Image Display

Double click the review image image on the acquisition page to display it in detail. Optimize the image display by adjusting the window width, window level, intelligent processing and other functions. For more functions, see the user manual.

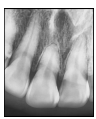


Standardize unprocessed images

Normalize

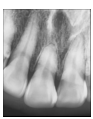


Smart Contrast



Denoise

Sharpen



Smooth

Emboss

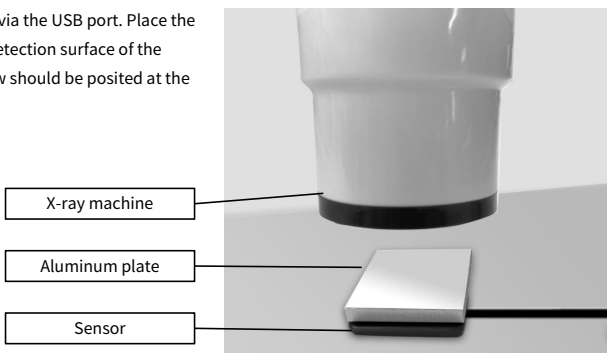
Appendix 1: Manually Calibration

Note: 1. Prepare the sensor, calibration aluminum plate, X-ray machine, and computer with acquisition software before calibration.

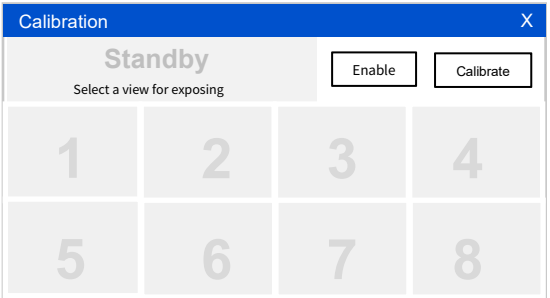
2. Recommended correction dose: For 1mA tube current, the exposure time is suggested more than 2s; for 2mA tube current, the exposure time suggested is more than 1s.

(After the calibration is completed, the routine dose can be resumed)

Step 1: Connect the sensor to the computer via the USB port. Place the calibration aluminum plate on the detection surface of the sensor. The X-ray collimation window should be posited at the center of the sensor.



Step 2: Start the software, and click the "Calibrate" button to open the calibration window.



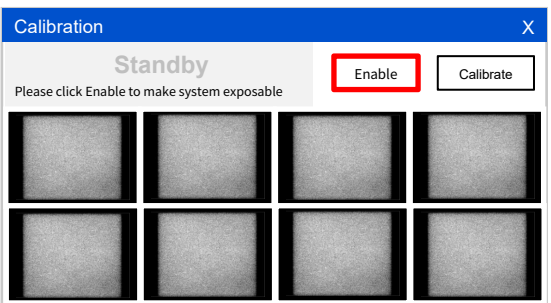
Step 3: Do as follows:

a. Choose one view;

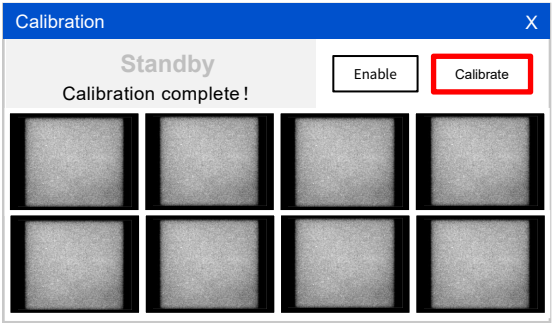
b. Click the [Enable] button;

c. Press the exposure switch according to prompts.

Repeat the a-c steps 8 times to collect 8 images for calibaration.



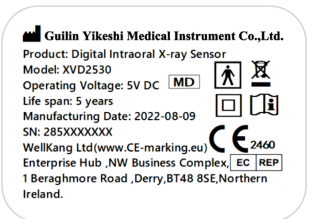
Step 4: Click the [Calibrate] button, and the [Calibration completed!] message will appear. The calibration is completed.



Appendix 2: Software Activation

Step 1: On the acquisition page, click the menu item [About]-[Activation]. The registration and activation window will be displayed.

Step 2: Fill in the relevant information. The items with * are mandatory. Click [Export Application] to generate the dat file. The product serial number can be seen on the back of the sensor's power supply box, as shown in the right figure.



Step 3: Send the exported file as an attachment to **Jenny@xpedent.com**

Step 4: Within 10 minutes, you will receive an activation code from Jenny@xpedent.com. fill in the relevant activation code on the activation page, and click [Activate] to verify activation .

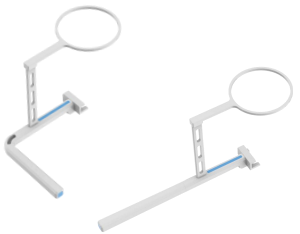
Note: 1. During the process of exporting the activation file and filling in the activation code, the sensor should be connected to the computer during the whole actviation process.

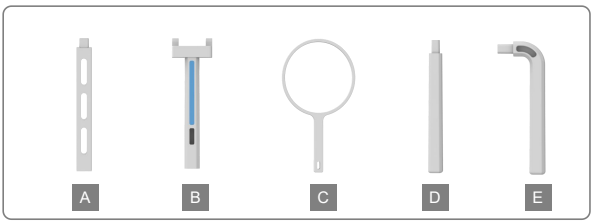
2. Each sensor corresponds to one unique activation code.

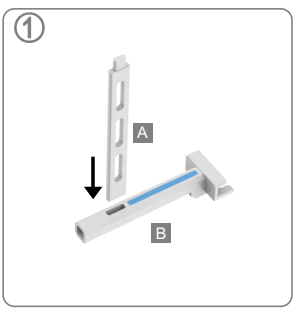
3. You can log in after the trial period expires or after activation.

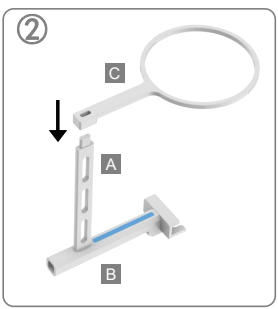
Account Name: admin, Password: admin

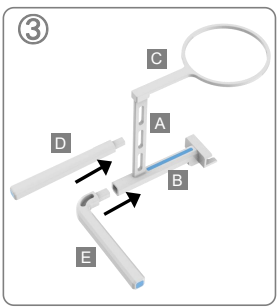
Appendix 3: Quick Installation of the Stabilizer











Appendix 4: FAQs

Q1: Why is the image taken by the sensor blurry?

A1: It is recommended that you’ d better re-calibrate the sensor manually referring to Appendix 1, reset the appropriate dose, and shoot again.

Q2: Why is communication failure or system exception indicated when I export the activation file?

A2: The possible causes are as follows:

(1) The sensor is not connected during the process of exporting the activation file. Connect the sensor;
(2) The version of the computer's OS is not the official Windows7 SP1(Mostly).

Q3: After the sensor is connected, a communication failure is indicated during shooting. Why cannot the computer recognize the USB connection?

A3: It may be because the computer’ s anti-virus software is disabled or its files are deleted. Configure the anti-virus software, restore the software trust, and restart the software.

Q4: Why activation failure is indicated after I fill in the activation code as required?

A4: Check that the sensor is normally connected to the computer, and that the sensor connected during activation is the same as the sensor connected during file export.