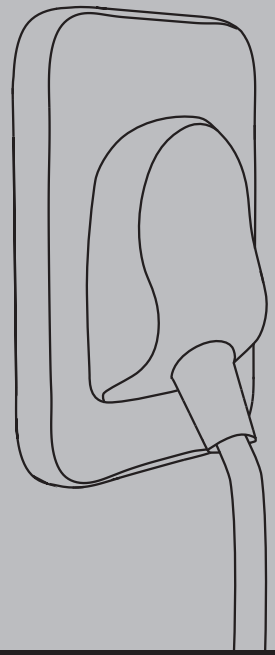
XPEDENT®

Digital Intraoral X-ray Sensor

COMS

User manual



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I.Package List

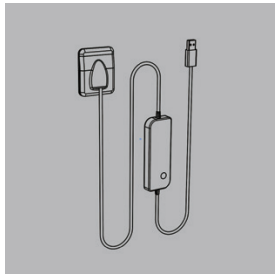
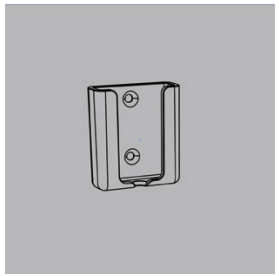


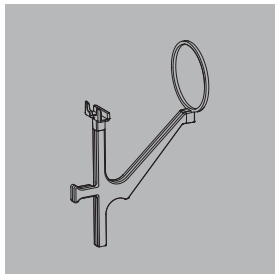
Image sensor

U Disk

Aluminum plate



Sensor holder



Stabilizer

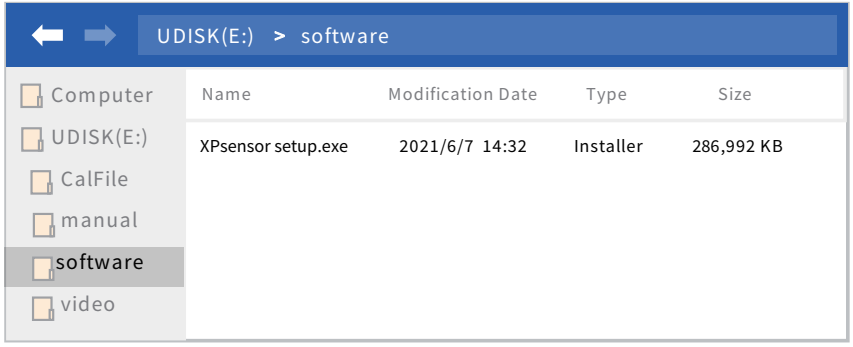
Disposable protective sleeve

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.

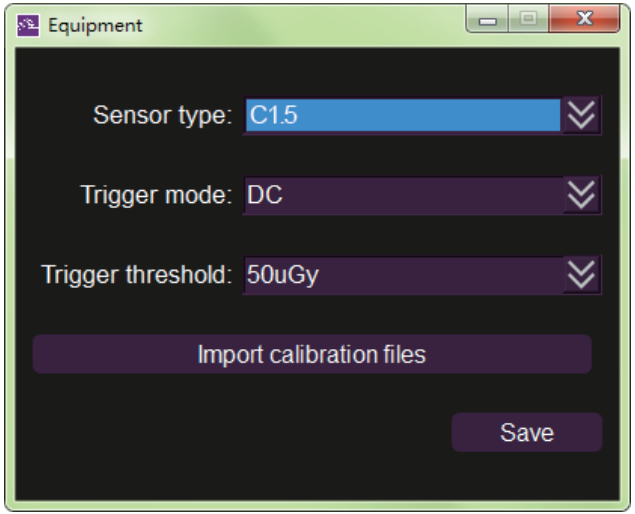
2. Keep the U Disk connected to the computer during software installation.

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.



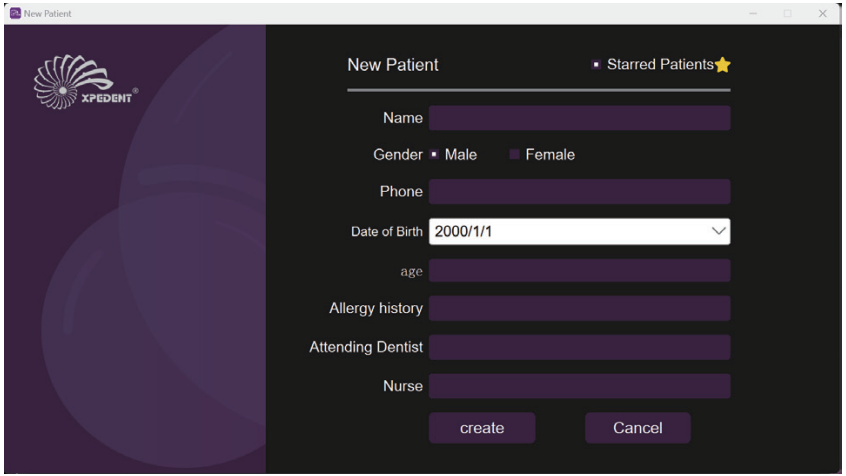
Note: 1. If you are not satisfied with the images collected after automatic calibration, or if the sensor has been used for more than half a year, it is recommended that you use manual calibration to re-calibrate the software. For more details of manual calibration, please refer to Appendix 1: Manual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

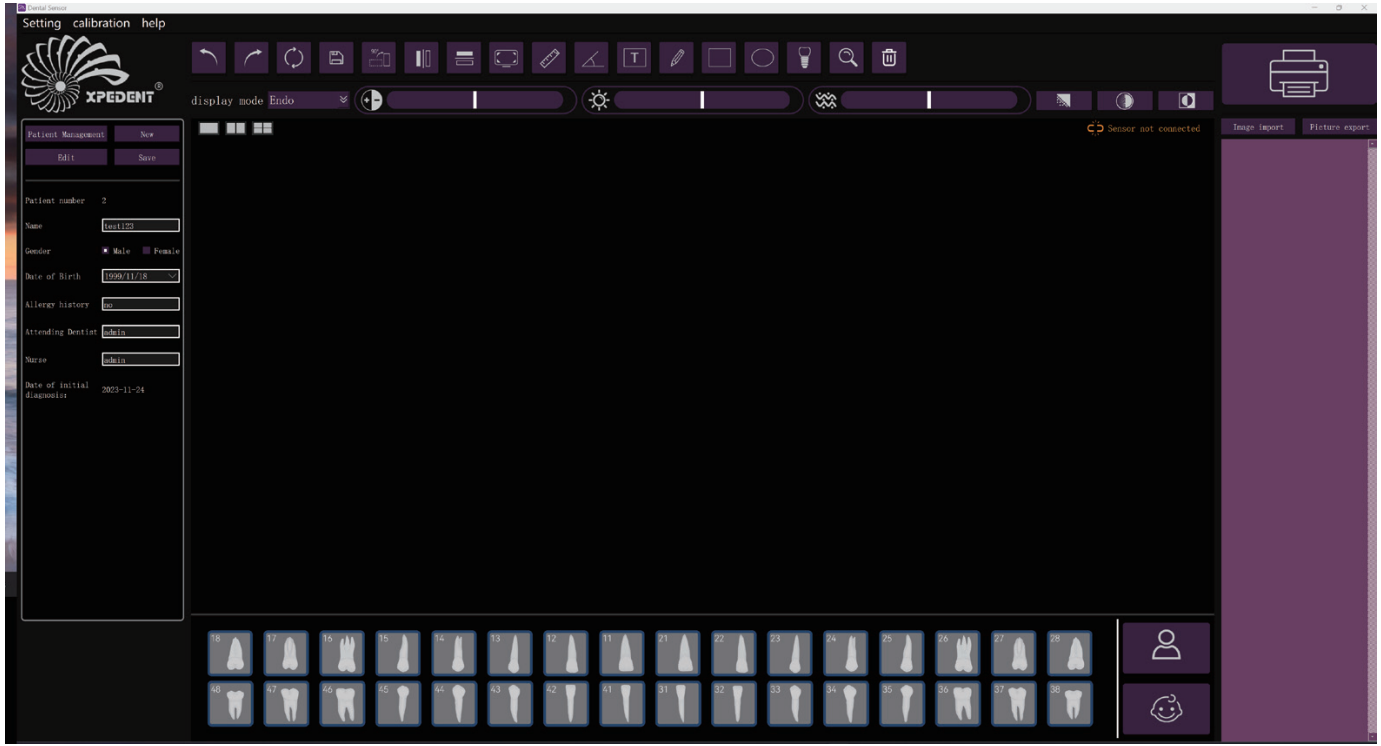
III. Shooting

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

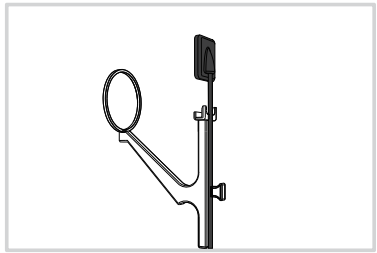
Step 2: Double click the software icon to start the software and proceed to the acquisition page.Click the ‘New Exam’ icon and fill in the examinee information.



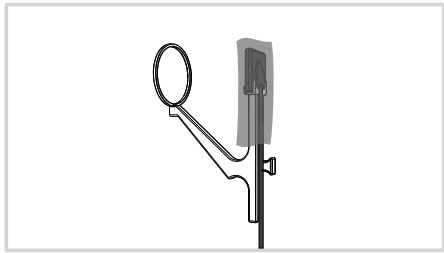
Step 3: Choose [Patients]-[Date]-[View] on the acquisition page :



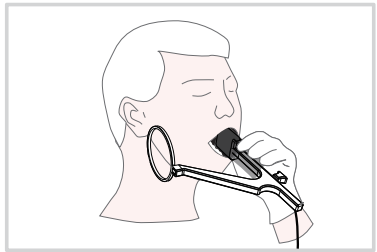
Step 4: Take out the stabilizer and mount the sensor to the stabilizer as shown in the figures. Put on a disposable protective sleeve, and set the position before shooting.



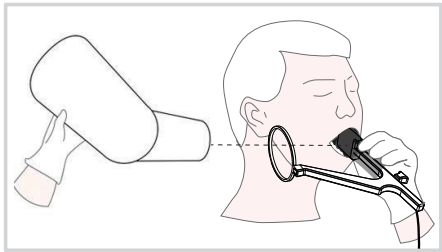
Mount the sensor to the stabilizer



Envelop the sensor with a disposable protective sleeve

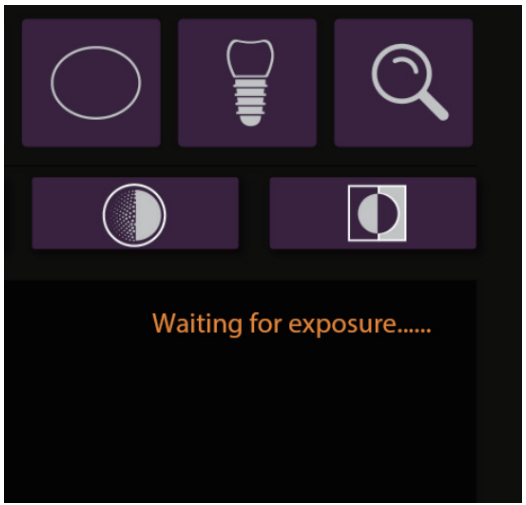


Put the sensor into the patient's mouth and position the patient and the sensor

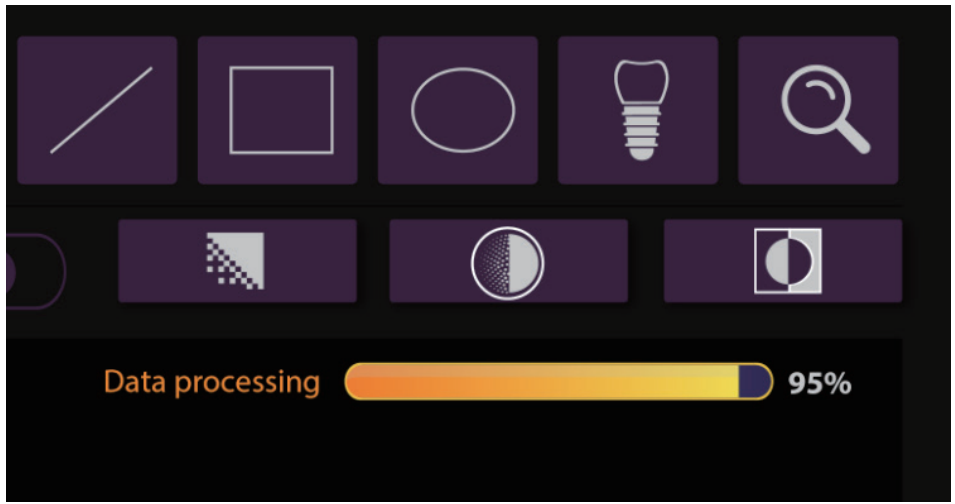


Adjust the angle of the X-ray machine

Step 5: Connect the sensors and select the desired tooth position in the main interface. The upper right corner of the interface will display "Waiting for exposure", and the user can start shooting without any time or quantity restrictions. Users can continue to capture images until they meet the requirements, without any operation on the software during this period.



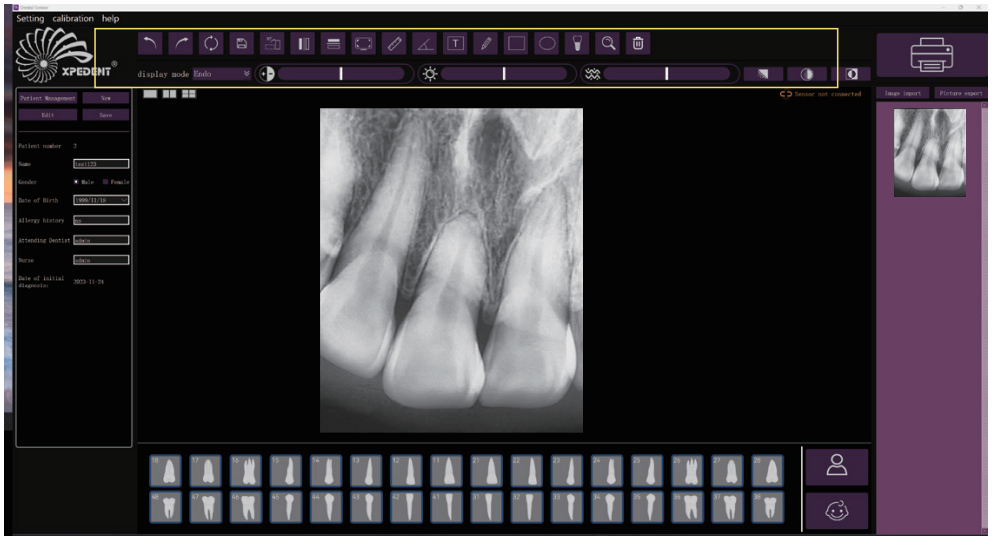
After selecting the tooth position, continue to wait for data to be received



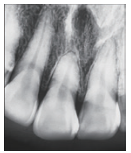
After receiving the data, you can immediately start the next shooting

IV. Image Display

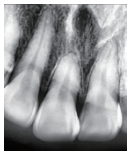
By using the function buttons above the main interface, it is easy to achieve functions such as adjusting image display effects, measuring, and adding notes.



Standardize unprocessed images

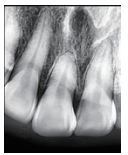


Normalize

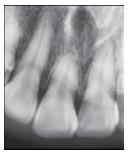


Smart Contrast

Denoise



Sharpen



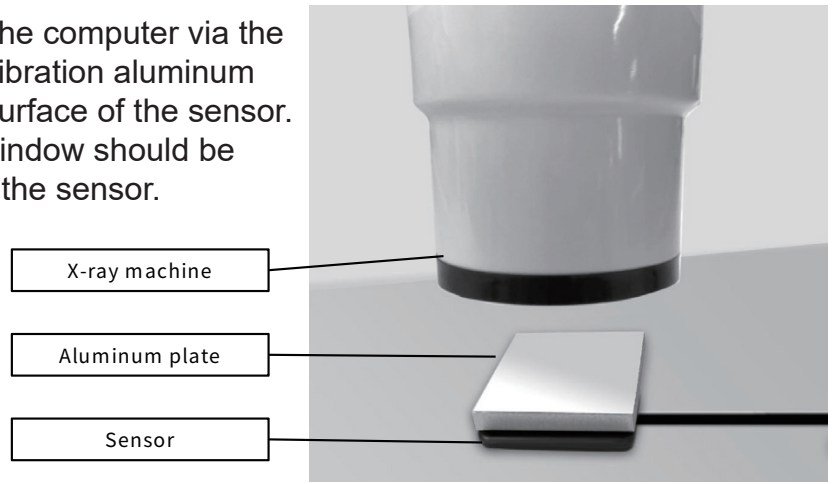
Smooth

Emboss

Appendix 1: Manually Calibration

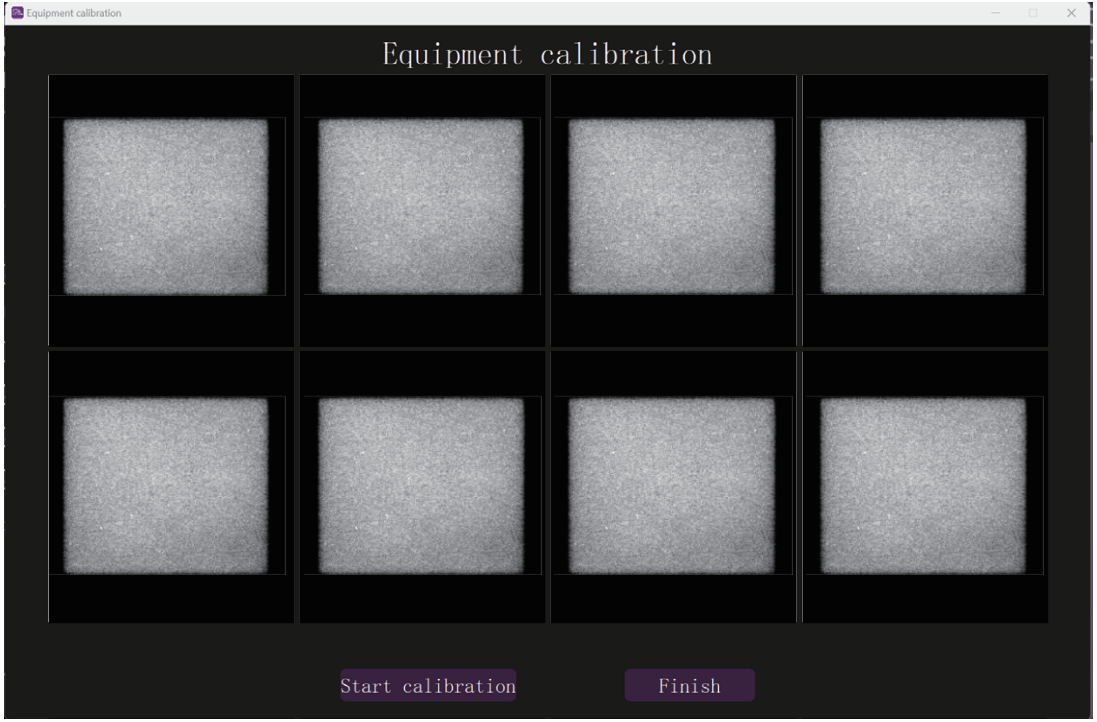
Note: 1. Prepare the sensor, calibration aluminum plate, X-ray machine, and computer with acquisition software before calibration.
2. Recommended correction dose: For 1mA tube current, the exposure time is suggested more than 2s; for 2mA tube current, the exposure time suggested is more than 1s.
(After 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.

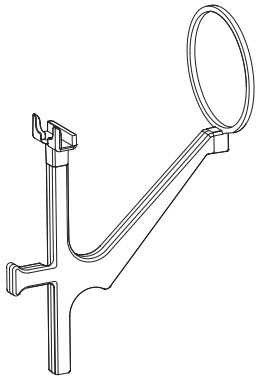


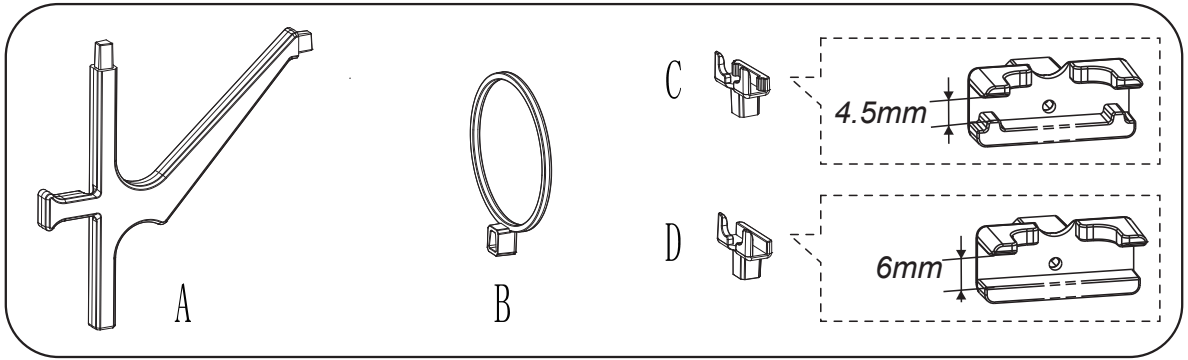
Step 2: Press the "calibration">"Equipment calibration" button on the main interface to open the calibration window

Step 3: Click the "Start calibration" button, take 8 consecutive shots, and then click "Finish" to complete the calibration.



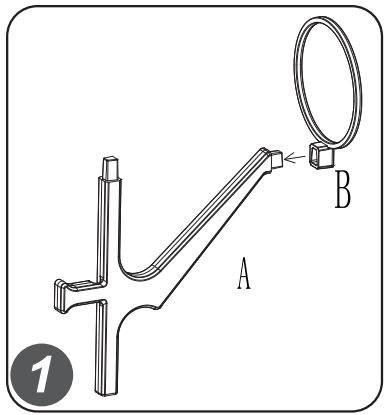
Appendix 2: Quick Installation of the Stabilizer

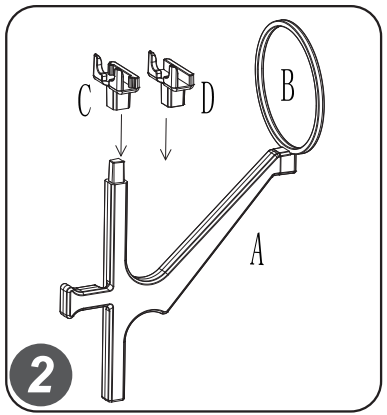


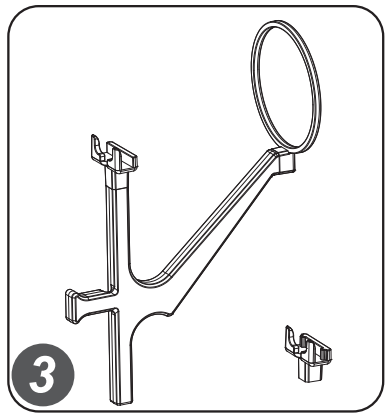


Remark

- *Positioner C compatible with sensors around 4.5 mm thick (e.g., iRAY series), while Positioner D compatible with sensors around 6 mm thick (e.g., XEDENT series).*
- *Each box contains two positioners.*







Appendix 3: 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.

XPEDENT®

Guilin Yikeshi Medical Instrument Co.,Ltd.
D-8,Guilin National High-tech Zone Information Industrial Park,
Chaoyang Road,Qixing District,Guilin,Guangxi,541004,P.R.China
Postal Code: 541004 Tel: 0086 0773 5805522
Fax: 0086 0773 5805522 Email: sales@xpediency.cn Website: www.xpedent-intl.com