



Thrident Industrial CO.,LTD



Dental 3D Scanner

Quick Installation Guide

Model :TDScan

For more information about installation and use, please refer to the installation and use instructions in the usb flash drive of accessories.

Product Specifications

Model designation	CS-D100
Region	100*100*75mm
Method	Non-contact scanning
Accuracy	< 10 um
Speed	6s for bite scan ; 9s for upper/lower jaw scan
Camera Resolution	2 x 1.3MP
Weight	5Kg (without power supply unit and accessories)
Ambient Temp.	10°C-30°C
Power	DC 24V
Output data format	STL
System required	Win10,64bit
Light Source	Blue

Working Conditions Required:

- Place it on the table stably
- Install the scanner at room temperature(10°C-30°C).
- Avoid placing the scanner or the object to be scanned under the exposure of strong light

PC Specifications:

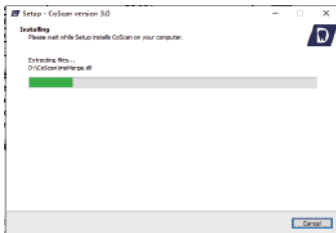
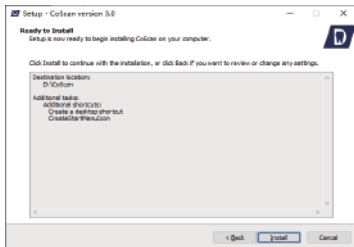
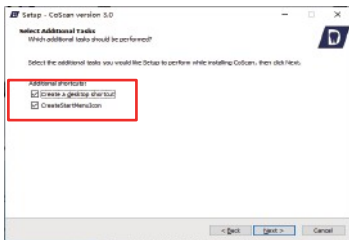
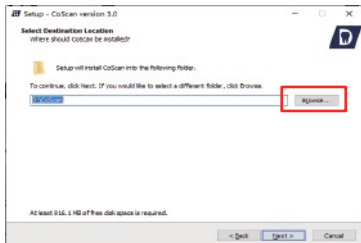
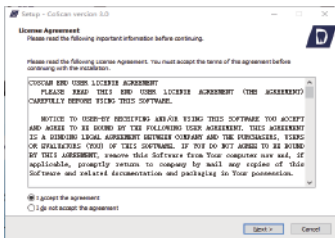
- OS: Win10(64bit only)
- Port: A USB3.0 TypeA for data output
A USB2.0(or above)TypeA for the dongle
- GPU: nVidia™ GTX750 (or above),VRAM 4G(or above)
- CPU: Intel Core™ i5,Generation 4th (or above)
- RAM: 8G(or above)
- Please closed all the virus defender

Caution:We suggest that you use Coscan with a PC that exceeds the minimum PC requirements.

Caution:Unexpected error may be occurred with a PC not meet the minimum requirements

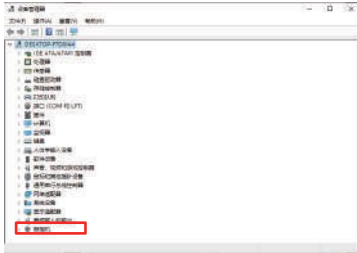
How to install the software on PC

- Copy the files from the flash drive
- Copy the install.exe and users guide from the flash drive
- Connect the scanner to the PC properly and turn on the scanner.
- Run the install.exe
- Double click CoScan.exe and install the software as the instruction shows. The details are as follow



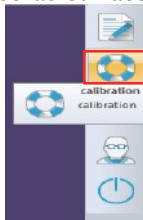
How to calibrate the scanner

- Make sure the scanner is properly connect to the computer
- Once it is properly connected,the “CEDU-CAM” icon will show in the “Device Manager”

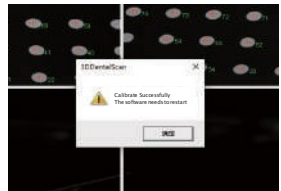
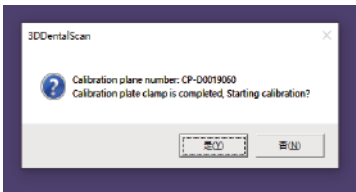


- Double click the “CoScan” icon on the desktop
- Take the “General block jig” and the calibration board out of the tool box and fix them property
- Click the calibration icon in the menu bar and start to calibrate.

Caution: Do not touch the surface of calibration board and keep the calibration board surface clean.















Check the serial number of the calibration board labeled in the backside with the one in the window popped up.



When successfully calibrated the dialog pops up and shows calibration success, otherwise means you need to contact the technicians

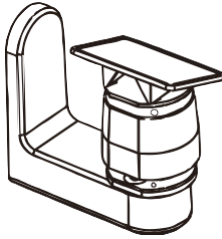
Basic Composition

Accessories	Quantity	Diagram	Purpose
Multi-die Jig	1		After filling the hole with plasticine, it can be used for inserting the abutment teeth
Gum Jig	1		Used for fixing both upper and under jaw on fixture through rubber band
Artex/KAVO Jig	1		Used for jaw scanning
Calibration Board	1		For calibrating the scanner, and please do not touch the surface
Base Jig	2		Used for fixing upper or under jaw on fixture through rubber band
Impression Jig	1		For impression scanning
General block Jig	1		Used for calibration, scanning jaw, impression and die
Articulator Plate	1		For articulator scanning
Power cord & external adaptor	1		Convert 220Vac to 24Vdc power for scanner using
Dongle	1		To enable the use of software
USB Cable	1		For connecting between PC and scanner
Flash Drive	1		Flash drive contains software installer and users guide

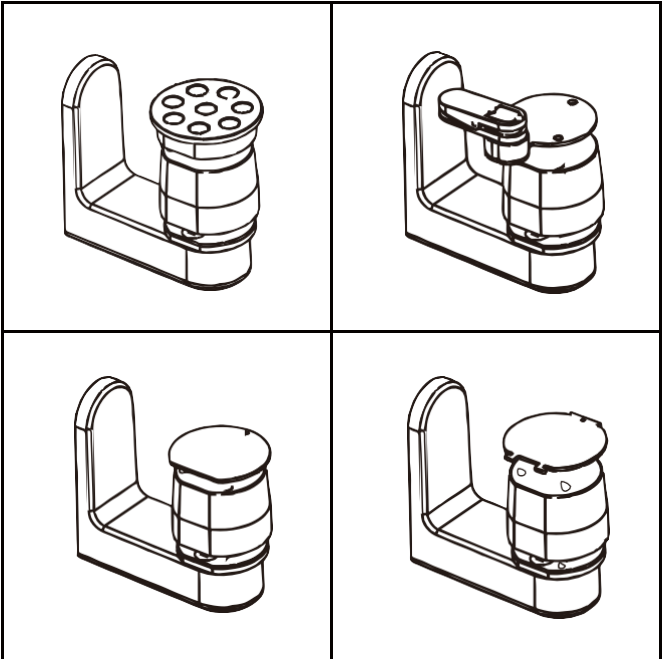
How to use the fixtures

General Block Jig

--For implementing the calibration board.

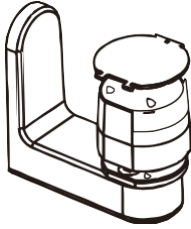


--For implementing the Multi-die jig, Gum jig and impression jig

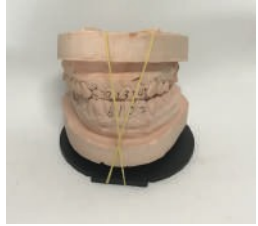


How to use the fixtures

Gum Jig



--How to use Gum Jig



How to use the fixtures

Impression Jig

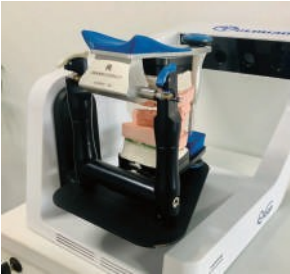
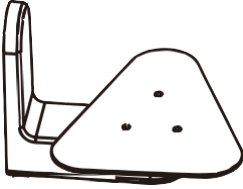


Artex/KAVO Jig



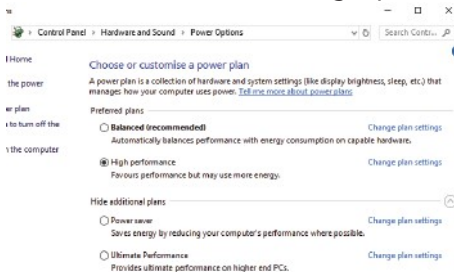
How to use the fixtures

Articulator Plate



Preparations befor scanning

Make sure the PC is on the High-performance mode



Make sure the virus defender is closed

Virus & threat protection

Protection for your device against threats.

Current threats

No current threats.
Last scan: 05/09/2019 07:26 (quick scan)
1 threats found.
Scan lasted 12 minutes 34 seconds
57033 files scanned.

Quick scan

Scan options

Threat history

Virus & threat protection settings

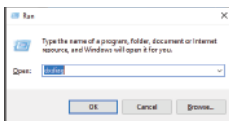
Real-time protection is off, leaving your device vulnerable.

Turn on

Manage settings

Make sure the GPU driver is on the latest version

Use the dxdiag tool to check the GPU driver version. In Windows, select Start and enter "dxdiag" into the search box on the taskbar.

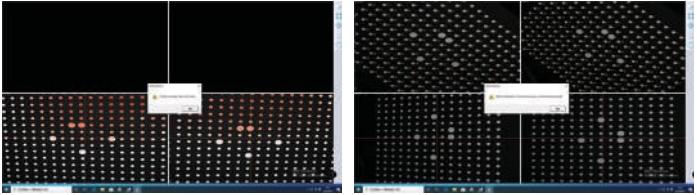


Make sure the manufacturer of USB chipset is intel in "device manager"

- Universal Serial Bus controllers
 - Altera USB-Blaster
 - Intel(R) USB 3.0 可扩展主机控制器 - 1.0 (Microsoft)
 - Kingst Instrument - Logic Analyzer
 - NVIDIA USB 3.10 可扩展主机控制器 - 1.10 (Microsoft)
 - NVIDIA USB Type-C Port Policy Controller
 - USB 根集线器(USB 3.0)
 - USB 根集线器(USB 3.0)

The common problems and solutions

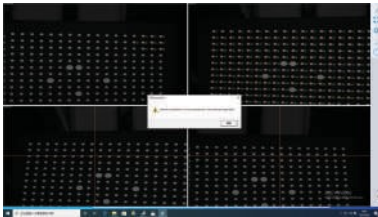
When pops up “step motor failed” or “ShotCalibrateImage failed” in calibration



Solutions :

- Make sure the usb cable is inserted in the original USB3.0 port;
- Make sure the USB driver is updated to the latest version;
- Make sure the usb cable is the one provided by the manufacturer;
- Make sure the PC meets the requirement, make sure the PC is on the high performance status.

When pops up “ShotCalibrateImage failed” and large areas of markers are not recognized



Solutions :

- Make sure the calibration board is placed on the general block.

Technical Support

For more information about installation and use, please refer to the installation and use instructions on the usb flash drive of accessories. For more help, please contact your dealer for further support.

Thriden Industrial Company Limited

Add : No. 166, East Chazishan Road, Yuelu district, Changsha City, 410006 Hunan, China

Tel : +86 17070810319 / +86 18153809468 / +86 18974081369

Email: thridental@hotmail.com

info@thriden.com

Skype: [thridental@hotmail.com](https://www.skype.com/people/thridental@hotmail.com)

Web: www.thriden.com

