

3DISC

## Quick Guide

VOIOS



Version 3.8

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The Scan&Tell communication-hub

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# Introducing the OVO™ IOS

## 1.1 Introduction



Thank you for purchasing the **OVO™ IOS** from **3DISC**.

The OVO™ IOS is designed and developed to produce high-quality digital intraoral scans or models, for dental restoration or analysis.

Designed with you as a dentist and your patient in mind, the OVO™ IOS scanning device is lightweight, versatile and easy to use, enabling fast, accurate scans and enhanced patient experience.

Combined with the 3DiscClinic™ 3D Scanning and Case Management software, and the 3DiscCloud™ file-sharing platform for ordering and communicating with labs, the OVO IOS solution provides a comprehensive, intuitive and fully digital experience.

### 3DISC Scan&Tell™

To enhance patient engagement, 3DISC Scan&Tell™ enables you to connect to 3DiscClinic™ using an iPad®.

The 3DISC Scan&Tell™ application can be downloaded to iPad® via the Apple® App Store.



**3DISC-Scan&Tell**  
Dental Communication app

OPEN

We hope you enjoy your OVO IOS solution.

## 1.2 OVO IOS Quick Guide

The **OVO™ IOS Quick Guide** is designed to present the basic functions of the 3DISC OVO™ IOS solution.

This document is complemented by the 3DISC Online Help.

The user is invited to consult the online documentation for further information.

### 3DISC Online Help

For your comfort, an easy-to-use online documentation is available at:  
<https://docs.3disc.com/>

Links to 3DISC Online Help in this document are indicated by the following icon:



## 1.3 What's new in this version

This document update incorporates new features and improvements added to the 3DiscClinic™ 3.8 software release.

For more information consult: [3DiscClinic 3.8 Release Notes](#).



### Special Notice

**3DiscClinic™ version 3.8** introduces major changes to the **3DISC** software suite.

- **3DiscClinic™** replaces the **3DiscClinic™** software and now supports:
  - **3DISC** OVO™ IOS
  - **3DISC** OVO™ IOS
  - **3DISC** Scan&Tell™
- The **3DISC** cloud platform becomes **3DiscCloud™**

## 1.4 Indications supported

The software enables you to select the following indications\* when filling out orders for restoration:

- |                       |                         |
|-----------------------|-------------------------|
| - Conventional crowns | - Implant-based bridges |
| - Anatomic crowns     | - Tooth-based bridges   |
| - Copings             | - Orthodontic aligners  |
| - Provisional crowns  | - Nightguards           |
| - Anatomical pontics  | - Splints               |
| - Reduced pontics     | - Retainers             |
| - Provisional pontics | - Bleach trays          |
| - Inlays/Onlays       | - Sleep appliances      |
| - Implant abutments   | - ...                   |

\* Verify with your dental lab or service provider about their capabilities to produce particular indications.

## 1.5 Certification and compliance

The system has been tested and conforms to the following standards:

- IEC 60601-1, Medical electrical equipment - Part 1: General requirements



for basic safety and essential performance

- IEC 60601-1-2, Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances

- Requirements and tests:

- IEC 62471, Photobiological safety of lamps and lamp systems

## 1.6 Regulatory

The OVO™ IOS is manufactured and marketed in accordance with US FDA Regulations and EU Medical Device Regulation 2017/745.

## 1.7 Intended Use

The OVO™ IOS is an optical impression system. It is used to record the topographical characteristics of teeth, dental impressions, or stone models for use in the computer-aided design (CAD) and computer-aided manufacturing (CAM) of dental restorative prosthetic devices.



**WARNING:** Unintended use of the system can result in physical injury to the patient and operator, and damage to the system.



**CAUTION:** Rx only - Federal law restricts this device to be sold by or on the order of a Dentist.

## 1.8 Classifications

The OVO™ IOS system has the following classifications

- Protection against electrical shock: Type B Applied Part
- Protection against harmful ingress of water: Ordinary equipment (IPX0)
- Safety of application in the presence of a flammable anesthetic material with air or with oxygen or nitrous oxide: Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

## 1.9 3DISC Privacy Policy and GDPR Privacy Statement

Your privacy and the privacy of the patient data managed by you is important to 3DISC.

For information on 3DISC Privacy Policy, go to:

[Privacy policy - 3DISC](#)

To access 3DISC's GDPR Privacy Statement, go to:

[GDPR Privacy statement - 3DISC](#)

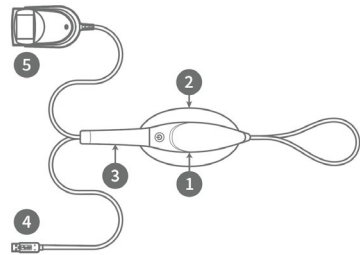
# 2. Components Overview

The OVO™ IOS system is composed of hardware components.

## 2.1 Hardware Components

The OVO IOS system is composed of the following hardware components\*:

- 1. OVO IOS Scanner
- 2. OVO IOS base
- 3. Removable autoclavable tips
- 4. USB 3.0 cable
- 5. AC/DC power adapter



Hardware Component	Part Number
OVO™ IOS (Includes 3 Tips)	IOS-FP-71-003
USB 3.0 Cable	IOS-CP-00-043
AC/DC Power Adapter	IOS-CP-00-088

**Save the Box:** It is highly recommended that you store the packaging in a safe place and do not dispose of it. The original packaging box is optimal for any necessary transportation or shipment of the OVO™ IOS.

**\*Note:** *Packaging details and contents may vary from those described in this guide.*

## 2.2 3DISC Scan&Tell™ Hardware Accessories ¶

The 3DISC **Scan&Tell™** option requires the use of a tablet (iPad).

**NOTE:** The tablet for use with 3DISC **Scan&Tell™** can be delivered as an option with your 3DISC **OVO™ IOS** .




## 2.3 Software Components

The OVO™ IOS system comprises the following software components:

- 3DiscClinic™ : 3D Scanning and Case Management software.
- 3DiscCloud™ : Dedicated cloud platform for ordering and communicating with labs.
- Scan&Tell™ : The 3DISC Scan&Tell™ application can be downloaded to iPad® via the Apple® App Store.

## 2.4 System Requirements and Specifications

### Scanner Specifications

Scanner Type	Hand-held (chairside) scanner that creates optical impressions for dental restorations.
Design	Compact, lightweight, ergonomic – designed to be operated with little physical effort.
Dimensions Base	Size: L 154mm, W 88mm, H 64mm
Dimensions Scanner	Weight: 165 grams
	Size: L 257mm, W 45mm, H 62mm
	Cable length (scanner to base): 2m
Power Requirement	DC 5.0V / 4A (Power supply included)
Scanner Tip	Reusable up to 250 times, sterilize using steam autoclave 
Heating Element	Ventilated. Prevents formation of fog on optics
Acquisition Method/Imaging technology	Hybrid technology: active stereo imaging and structured light
Sensor technology	CMOS
Color Scanning	24-bit (8-bit per channel)
Scanning frequency	25-30 FPS
Imaging field-of-view	12mm x 14mm
Light sources	High-power LEDs

### Scanning Process

Tooth Preparation	No powder or spray required
Scanning Principle	Continuously scanning and accumulating (stitching) depth and color data
Distance Scanner - Tooth	-1mm – 19mm
Possible contact duration by operator	<10 min. <b>Note:</b> May vary with hardware configuration
Operator accessible part	Handpiece
Possible contact duration by patient	t ≤ 10 min

Patient accessible part (Type B Applied Part)	Tip (autoclavable)
Computer – Scanner Interface	USB 3.0

## Software output and design software compatibility

Output File Format	STL, PLY, OBJ
Compatibility with CAD/CAM Systems	Open Architecture Output format STL, PLY, OBJ Compatible with most Dental CAD systems

## 2.5 Minimum Computer Requirements

The following requirements have been defined by 3DISC to ensure the 3DiscClinic™ software operates properly. The related configurations have been tested by 3DISC.

For an online version, visit: [Minimum Computer Requirements](#)



**IMPORTANT NOTICE:** The use of any other hardware units and/or other base software modules to run the 3DiscClinic™ software is not recommended and is not supported by 3DISC.

### Minimum Software Requirements

Operating System	Windows 11 Pro, Windows 10 Pro (Excluding Windows 10 S, now defunct) Administrative rights required
Disk Space	100 GB or greater of free disk space
Ports	At least 1 x USB 3.0 port (SuperSpeed)
Nvidia Driver	Nvidia Studio driver version 516.94 or higher is currently required. <b>IMPORTANT:</b> Always contact support before updating your Nvidia driver. Nvidia gamer-ready driver should not be used with the HeronClinic software.
NVIDIA GPU operation mode	The PC must be able to ensure that the <b>Nvidia GPU is the only GPU activated on the PC</b> and that <u>any Intel integrated GPU is disabled</u> . (This is usually achieved using high level configuration tools or BIOS commands).  <b>Warning:</b> Certain models of computer of the following brands - Acer, MSI, HP,... - provide no option to only

	have the Nvidia GPU active. This may affect performance: low FPS or freeze during scan.
Screen resolution	<b>Full HD (1920 x 1080) with DPI 100%</b> <b>NOTE:</b> The use of 4K (3840 x 2160 pixels) or Ultra-Wide (3440 x 1440 pixels) resolutions is also possible, however the impact on performance has not been quantified by 3DISC at this stage.

## Software Configuration Recommendations

Windows automatic updates	3DISC recommends deactivating all Windows automatic updates (except for security updates).
Nvidia driver automatic updates	Nvidia driver automatic updates <u>should be disabled</u> .
Windows Battery Settings	On laptops, the battery setting in Windows should be configured to <b>high performance mode only</b> , with <u>no battery saving option</u> .

## Minimum Hardware Requirements

CPU Type	Intel 10, 11 and 12 generation. Intel i7 or i9 – 4 Cores give best performance.
CPU Clock	2.8 GHz clock or greater “Turbo” and “boost” speeds cannot be considered.
Memory	32 GB of RAM or greater (DDR4 or better)
Graphics Card Memory	6GB of RAM minimum on the graphics card are needed. Below this, the software will not launch: an error message will inform you that the minimum requirement is not reached.
GPU	<ul style="list-style-type: none"> <li>• Quadro RTX3000, RTX4000 and above for laptop and desktop</li> <li>• RTX2070 for laptop and desktop</li> <li>• RTX2080 for laptop and desktop</li> <li>• RTX2080TI for desktop</li> <li>• RTX3070 for laptop and desktop</li> <li>• RTX3080 for laptop and desktop</li> <li>• RTX3090 for desktop</li> <li>• RTX4070</li> <li>• RTX4080</li> <li>• RTX4090</li> </ul>

These PC requirements may be revised without notice by 3DISC to take into account observations made on the field or additional test results performed by our teams.



**IMPORTANT:** Compatibility of AMD GPUs is not guaranteed with the OVO™ IOS.

Not meeting minimum hardware requirements will affect the performance of the scanner.

## 2.6 Environment Conditions

Operating Temperature	10°C to 30°C
Operating Relative Humidity	10% to 80% (non-condensing)
Storage Temperature	- 20°C to 60°C
Storage Relative Humidity	10% to 80% (non-condensing) Indoor use only
Installation Category	1
Pollution Degree	2
Ingress of Liquids	IPX0
Protective Class	Class IIIb
Overvoltage category	II per IEC 60664-1
Max. working condition	Continuous cycles with image capture and transmission from/to Notebook or non-medical grade PC.
Other possible accessories (IEC60601-1 3rd, Cl. 16)	Notebook with AC/DC Adapter.
Equipment Maintenance	No user maintenance is required, and no user service is allowed. Please contact technical support in case of problem.
Cleaning	Do not try to clean the inside of the de- vice. Refer to <a href="#">section 11: Cleaning</a> the Handpiece for cleaning and sterilization.



## 2.7 Power Input

The power adapter input is 5V DC, 100-240V AC, 50-60Hz.

## 2.8 Reusable Tips

Scanner tip is autoclavable up to 250 times in a steam autoclave when used with min cycle:

- 132°C (270°F) at 4 minutes, or
- 134°C (273°F) at 4 minutes, or
- 121°C (250°F) at 45 minutes.

See below: [section 10.2 Cleaning and Sterilizing Tips](#).

## 2.9 Scanner Base and Handpiece

The scanner body consists of the Docking Base and Handpiece, which are connected by a flexible, non-detachable cable.

## 2.10 Calibration

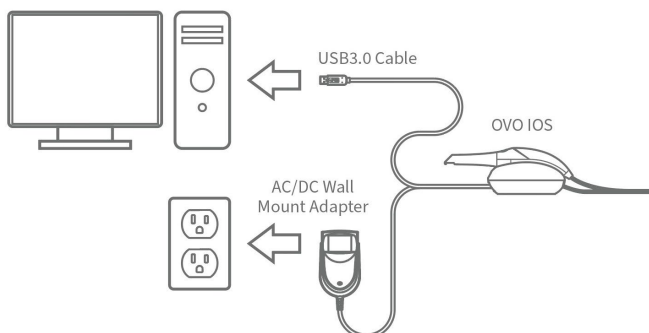
The OVO™ IOS™ is factory calibrated.

In the case of calibration issues due to transport, please contact your reseller or 3Disc support technician.

## 3. Installing and connecting the OVO™ IOS

### 3.1 Connecting the OVO™ IOS

For an online version, visit: [Getting Started with OVO™ IOS](#)



To install and connect the OVO™ IOS Scanner:

- Step 1.** Place the docking base on a flat, stable surface and place the OVO™ IOS handpiece securely on the base.
- Step 2.** Connect the AC/DC power adapter cable to the docking base (the connector socket is located underneath the base of the scanner).



**WARNING:** Make sure you use the 5.0V 4A power adapter provided. Failure to do so may result in damage to the scanning device.

- Step 3.** Connect the provided USB 3.0 cable to the docking base (the connector socket is located underneath the base of the scanner).



**WARNING:** Using a USB cable other than the one provided may result in system malfunction or reduced performance.

**Step 4.** Connect the other end of the USB 3.0 cable to the computer.



**IMPORTANT:** Make sure to use a USB port that is compatible with USB 3.0 (SuperSpeed), usually indicated by this symbol: not doing so may result system malfunction or reduced performance.



**IMPORTANT:** When using a desktop computer, it is strongly recommended to plug the USB cable to a USB port located at the back of the computer; not doing so may result in system malfunction or reduced performance.

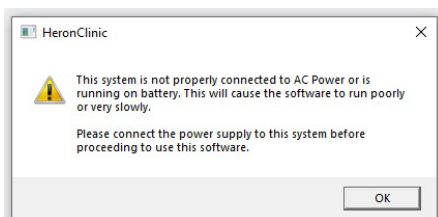
**DO NOT** plug the USB cable into an intermediate hub.

**Step 5.** Connect the adapter block provided to a power outlet.

### **IMPORTANT: Connect to Power Supply before Scanning!**

If your laptop computer is not properly connected to a power outlet, the following message will appear:

In this case, please connect your laptop to the power supply **before proceeding to use the scanner.**



**IMPORTANT:** If using a laptop computer, make sure the power supply is connected to a power outlet and not running on battery power. Failure to do so will mean that the scanner will not have sufficient power to produce images.

## Configuring Windows High Performance Graphics Mode

On laptop computers, battery settings in Windows should be configured to high performance mode only, with no battery saving option (Settings/System/Battery).



To select High Performance mode for the 3DiscClinic application:

1. In Windows **Graphic settings**: click to activate **Hardware-accelerated GPU scheduling**
2. In **Graphics performance preference**: select **Desktop app**
3. Click **Browse** and select the **3DiscClinic** app as shown (**Launcher.exe**):



4. In **Options**, select **High performance**, and click **Save**.
5. Repeat this for the **3DiscClinic PatientDB.exe** and **Scan3D.exe** executable files.
6. Restart your PC to apply changes.



**IMPORTANT:** On laptop computers, battery settings in Windows should be configured to high performance mode only, with no battery saving option (Settings/System/Battery).

## WARNING: Unsuitable installation sites



**WARNING:** Unsuitable installation sites:

- Locations with excessive humidity or dust
- Locations subject to high temperature
- Locations subject to shaking or vibration
- Locations exposed to considerable electrical or magnetic noise, or other forms of electromagnetic energy

# 4. Getting Started With 3DiscClinic™



For an online version, visit: [Getting Started with OVO™ IOS](#)

## 4.1 Launching 3DiscClinic™

Once you have connected the OVO™ IOS scanner, you are ready to launch the 3DiscClinic™ software installed on your computer.

**Step 1.** Click on the **3DiscClinic™** desktop icon to launch the 3DiscClinic™ software.



## Registration & Activation

On first launch, you will be invited to register and activate the 3DiscClinic™ software on your computer.



Device Registration

First Name

Last Name

Email Address

Scanner S/N

104246

Installation Date

5/21/2022

Country

United States

Address

Address (continued)

City

State/Zip Code

Phone

+1

☐ By using this form, you agree to the storage and processing of your data

SUBMIT

In the Device **Registration** dialog box:

**Step 2.** Enter your registration details (required information is indicated by \*)

**Step 3.** Tick the **consent** checkbox, to consent to the collection and processing of data.

**Step 4.** Click **SUBMIT**.

Info

This scanner has been successfully activated on your PC

OK



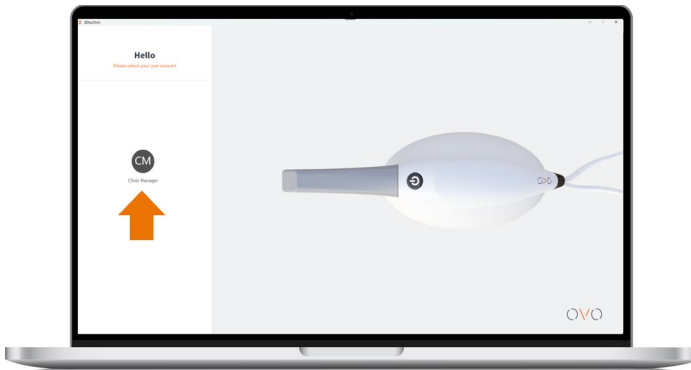
**IMPORTANT:** It will not be possible to perform new scans or export existing scans if the device has not been registered on the PC.

Data collected is used in accordance with the **General Data Protection Regulation (GDPR)** and is not shared with third parties. For information, see:

- [section 1.9 - 3DISC Privacy Policy and GDPR Privacy Statement](#)
- <https://gdpr-info.eu/>

## Accessing the Admin User Account

The 3DiscClinic™ Start Screen will display the default 3DiscClinic™ Admin User Account (**HC**) in the left-hand menu.



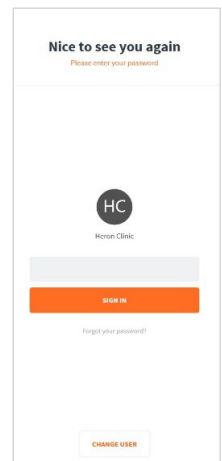
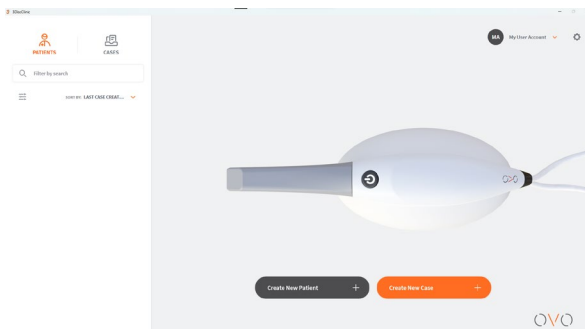
To access the Admin user account:

**Step 1.** Click on the Admin User Account (**CM**) icon in the left-hand menu.

3DiscClinic Sign In page invites you to **sign in** or **create a new account**.

**Step 2.** Enter your password and click **Sign In**.

The Admin User Start Screen displays as shown:



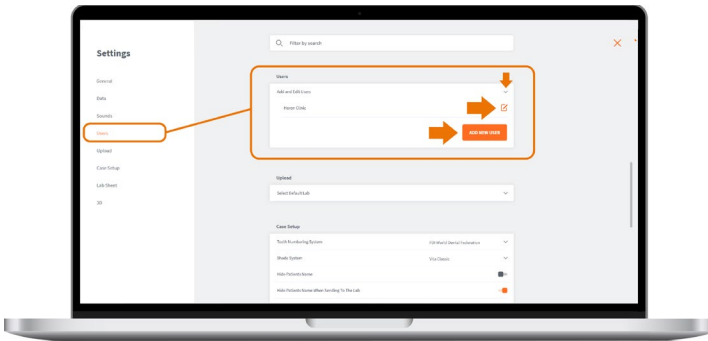
## 4.2 Setting Up A 3DiscClinic™ User Account

### Customizing the Admin User Account

To customize the **3DiscClinic™** Admin User Account (HC):

**Step 3.** Click the System icon located in the top right-hand corner of the User Start Screen, to access the **Settings** interface.

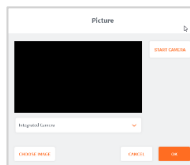
**Step 4.** Select **Users** in the left-hand **Settings** menu, and click on **Add and Edit Users**.



**Step 5.** Select the default “OVO Clinic” User profile, and click on the **Edit** icon to customize the default Admin User account.

**Note:** The default admin ID “3DiscClinic” cannot be modified.

**Step 6.** In the **User Image** field, you can click to open the Picture dialog box, to add or take a User Photo.



**Step 7.** To apply changes, restart the **3DiscClinic™** application.

## 4.3 Adding a New User Account

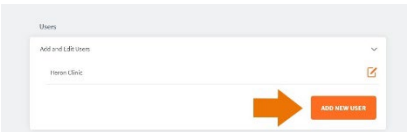
Only the **3DiscClinic™** Admin User profile (HC) can add new User Accounts.



To add a new User account:

**Step 1.** In Settings/Users, click **ADD NEW USER**:

This opens the **New User** dialog box.



**Step 2.** Enter User information: email, first name, last name, registration no. (optional), photo (optional).

**New User**

Email Address: \* newusername@mycompany

First Name: \* NewUser

Last Name: \* Name

Registration No.: 12365478901

User Image:

Use Password: ☐ Yes ☒ No

Use Heron Cloud: ☒ Yes ☐ No

## Password Protecting a User Account

To password protect a User profile (recommended):

**Step 3.** Select **Yes** in the **Use Password** field.

**Step 4.** Enter and confirm the password to apply to this user account.

**Step 5.** Click **CREATE/SAVE**.

**Step 6.** To apply changes, **close and restart** the application.



**IMPORTANT:** To protect the privacy of patient data processed by you, it is important to password protect all user accounts.



## 4.4 Linking a User Account to the 3DiscCloud™

You can link your **3DiscClinic™** User account(s) to the **OVO™ IOS** solution's dedicated **3DiscCloud™** platform. The **3DiscCloud™** enables users to easily and efficiently setup and manage file transfers and connections with labs.



**Note:** The OVO IOS **3DiscCloud™** platform is designed to facilitate file sharing and manage connections with laboratories. **It is not intended as a cloud storage service.**

Use Password: ☒ Yes ☐ No

Use 3DiscCloud: ☒ Yes ☐ No

**CANCEL** **SAVE**

To link the **3DiscClinic™** User profile to a **3DiscCloud™** account:

- Step 1.** Using the Admin account, In Add and Edit Users, click **ADD NEW USER** to create a User account.
- Step 2.** Enter account details, and in the **Use 3DiscCloud** field, Select **Yes**.
- Step 3.** Click Create/SAVE, to add the new User account.
- Step 4.** Click **OK**.

The **3DiscCloud™ Login** window will open automatically, inviting you to **Login** or to **Create a New 3DiscCloud™ Account**.

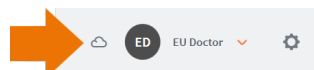
For more information, see below:

### Communicating With Labs:

- **10.1 - Linking a 3DiscClinic™ account to 3DiscCloud™**
- **10.2 - Creating A 3DiscCloud™ User Account (Clinic)**

When you have successfully linked your **3DiscClinic™** account to your **3DiscCloud™** account, a *cloud* icon is displayed next to your **3DiscClinic™** account name.

You can directly access your **3DiscCloud™** account simply by clicking on the *cloud* icon.



## 4.5 Accessing the 3DiscClinic™ Start Screen

User accounts are displayed in the left-hand menu of the 3DiscClinic™ Home Page.

To access the User **Start Screen**:

**Step 1.** Click on your User profile in the left-hand menu of the 3DiscClinic™ Home page.

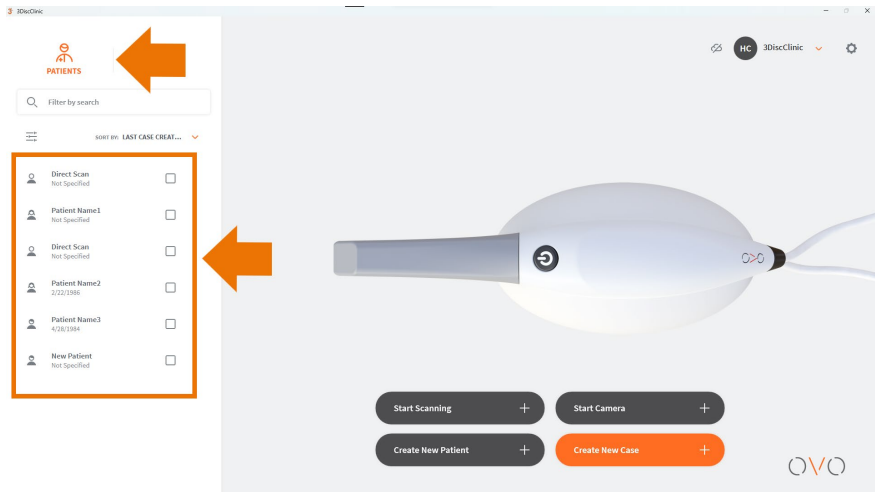
The **3DiscClinic™ Login** window will open automatically, inviting you to **Login** or to **Create a New Account**.

**Step 2.** Enter your password and click **SIGN IN**.



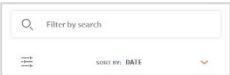
## 4.6 Overview of the 3DiscClinic™ Start Screen

When you login to your **3DiscClinic™** User account, the Start Screen is displayed as shown:



### A. Patients/Cases View

You can toggle between **Patients** and **Cases** views, and Filter or search desired Patients/Cases.



### Filter/Search

Search by term or Click on the Filter icon to open the **Filters** dialog box.

### Select A User Start Page Default View

To select a preferred **Default View** for the **User Start Page**:



- Step 1.** Click on the **Settings** icon.
- Step 2.** In the left-hand **Settings** menu select **General**.
- Step 3.** Click **Preferred Start Page**, and
- Step 4.** In the drop-down menu, select **Recent Patients** or **Recent Cases**.

For information on configuring **3DiscClinic™ Settings**, see:

- [Chapter 6 - Configuring Settings & Preferences](#)

For information on managing patient cases in **3DiscClinic™** see:

- [Chapter 7 - Managing Patients & Cases](#)

For information on scanning with **3DiscClinic™** see:

- [Chapter 8 - Scanning with OVO™ IOS](#)

## 5. Using 3DISC Scan&Tell™

To drive better patient engagement, the 3DISC OVO IOS proposes an easy-to-use communication hub for your everyday practice.

The OVO Scan&Tell™ application provides 3 communication tools in one interface:

- Preliminary Examination
- Buccal Monitoring
- Aesthetic Smile Design\*

\*(Optional feature. Contact your 3DISC representative for details).

### 5.1 Download & Launch 3DISC Scan&Tell™

To download the **3DISC** Scan&Tell™ application to iPad® from the Apple® App Store:

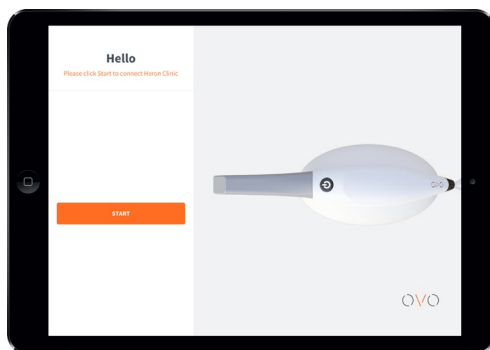
- On your iPad®, click on the App Store and go to the **3DISC** Scan&Tell™ application.
- Click to download the **3DISC** Scan&Tell™ application.
- To launch **3DISC** Scan&Tell™ , click OPEN



**3DISC-Scan&Tell**  
Dental Communication app

OPEN

### 3DISC Scan&Tell™ Start Page

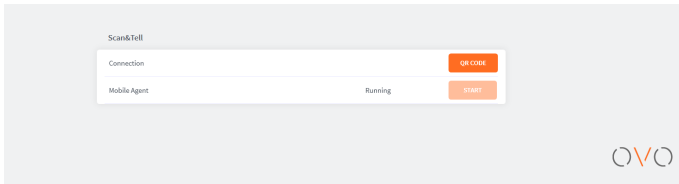


But wait... before you click **START** , go to **3DiscClinic™** Scan&Tell™ **Settings...**

## 5.2 Connecting 3DISC Scan&Tell™ to 3DiscClinic™

In 3DiscClinic™ Settings, go to Scan&Tell™:

- In Mobile Agent, click START.



This launches the 3DiscClinic™ Mobile Agent.

You are now ready to connect the Scan&Tell™ application installed on your iPad®

**NOTE:** If the **Mobile Agent** does not start, this may be due to your Windows Firewall blocking the Node service it uses.

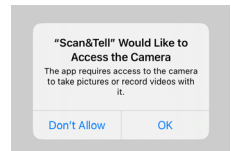
- On your iPad®, in the **3DISC Scan&Tell™ Start Page** click START.

This will launch the Scan&Tell™ **QR Code Scanner**.

### On your first connection...

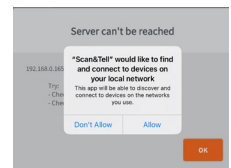
- On first connection, you will be invited to allow the Scan&Tell™ application access to the iPad® Camera.

Click OK.



- On first connection, you will be invited to allow Scan&Tell™ access to devices on your local network.

Click Allow.

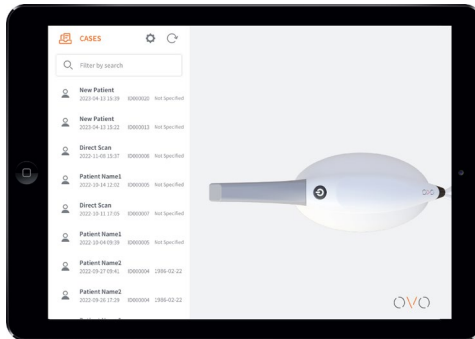


You will be invited to Scan the **3DISC Scan&Tell™ QR Code**:

- In **3DiscClinic™ Scan&Tell™ Settings**, click QR CODE.

Using your iPad®, hold the Scan&Tell™ **QR Scan** window to the **QR Code** displayed in **3DiscClinic™**.

When the QR code appears in the viewfinder, the Scan&Tell™ application will automatically connect to **3DiscClinic™** and the list of patient cases will be displayed on your iPad®:



## Troubleshooting your Scan&Tell™ Connection



If the Scan&Tell™ connection to **3DiscClinic™** fails... this is most likely due to:

- a timeout of the connection, or
- your firewall is blocking a service used by Scan&Tell™

For more information, visit: [Troubleshooting your Scan&Tell™ Connection](#)

## 5.3 Accessing Preliminary Examinations using Scan&Tell™

The **3DiscClinic Preliminary Examination** feature provides a fully integrated communication toolbox that enables users to:

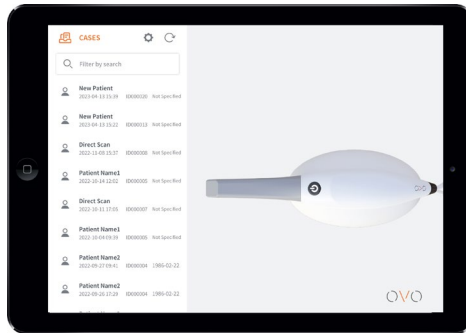
- Build patient files with 3D data, 2D images and Video
- Perform preliminary examinations & build treatment plans
- Easily dialogue with patients and present treatment options via **3DISC Scan&Tell™**

For more information, see below: [section 9.2 Carrying out a Preliminary Examination](#)

Or visit 3DISC Online Help: [Carrying out a Preliminary Examination](#)



When you are connected to the 3DiscClinic interface via Scan&Tell™, the list of cases is displayed as shown:



Touch select a patient case in the list:

- To display the 3D model for a case (if available):  
click/touch the 3D icon:
- To view 3D and 2D images and Findings for a case:  
click/touch the 3D|2D icon:
- To view a 2D image or Finding in detail:  
click/touch the corresponding image
- You can rotate and/or horizontally flip images as shown.



For information on acquiring 2D & 3D intraoral images, see below:

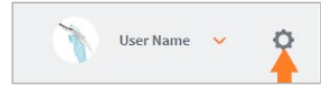
[Using the Image Acquisition tool](#)

## 6. Configuring Settings & Preferences



### Accessing the Settings Menu

System settings can be accessed by clicking the System icon located in the top right-hand corner of the 3DiscClinic™ User Start Screen.



### 6.1 3DiscClinic™ Settings



#### Settings Groups

The following 3DiscClinic™ settings groups are available for the 3DISC OVO IOS :

- [General Settings](#)
- [Data Settings](#)
- [Audio Settings](#)
- [Users Settings](#)
- [Upload Settings](#)
- [Case Setup Settings](#)
- [3D Settings](#)
- [Scan&Tell](#)

**Note:** System settings are automatically applied to **all users**.

To access a specific Settings group, you can select from the left-hand **Settings Menu**, filter by search or scroll down.

For a full description of available 3DiscClinic™ settings , visit the **Settings** tab of [3DISC Online Help](#).



## 7. Managing Patients & Cases

For a full description of available **3DiscClinic™** options for Managing Patients & Cases, visit the **Patients & Cases** tab of **3DISC Online Help**.



### The 3DISC™ IOS Workflow

The **3DISC™ IOS Workflow** consists of 4 simple steps:

- Step 1.** Create a Case in 3DiscClinic™
- Step 2.** Scan using your 3DISC OVO IOS
- Step 3.** Finalize the Case in 3DiscClinic™
- Step 4.** Send to lab via 3DiscCloud™

### 7.1 Patients & Cases options

The following **Patients & Cases** options are available in **3DiscClinic™** for the **3DISC OVO IOS** :

#### **Patients & Cases**

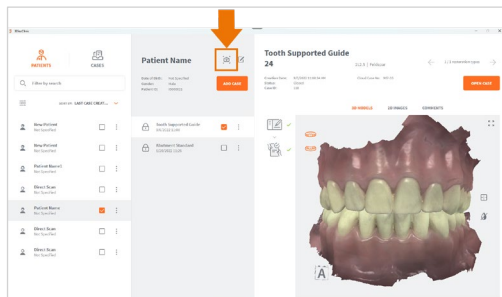
- Managing Patients
- The 3DISC<sub>1</sub> IOS Workflow
- Creating a Case
- Case Setup Options
- Case Setup Settings

### Previewing a Case

To preview a patient case:

- Step 1.** Select a patient in the left-hand menu.
- Step 2.** Select a case in the list of cases associated with the patient profile.

The **Case Preview** is displayed as shown.



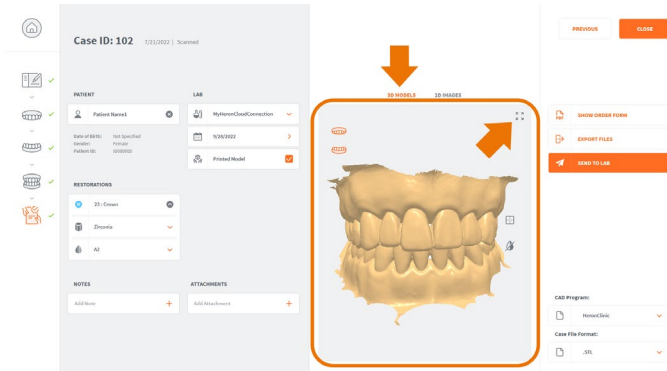
## Opening a Case

To open an existing patient case:

**Step 3.** Click **Open Case** in the **Case Preview** window.

OPEN CASE

This will open the **Finalization** page.



To directly access any step of the **Case Workflow**:

**Step 4.** Click on the relevant icon in the left-hand menu.

For information on using the **Finalization** page, see below:

- Chapter 9 - Finalizing a Case

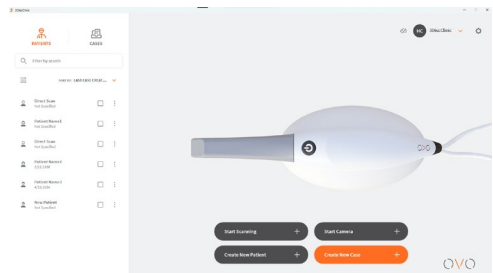
## 7.2 Creating a Patient Profile ¶

To create a patient profile in **3DiscClinic™** :

**Step 1.** Click on the **CREATE NEW PATIENT** click-bar in the User **Home Page**:

**Step 2.** In the **Create New Patient** dialog box, enter the patient details.

**Step 3.** Click **Create** .



## 7.3 Creating a Case



To Create a Case:

**Step 1.** Click on the CREATE A CASE click-bar in the **User Home Page**:

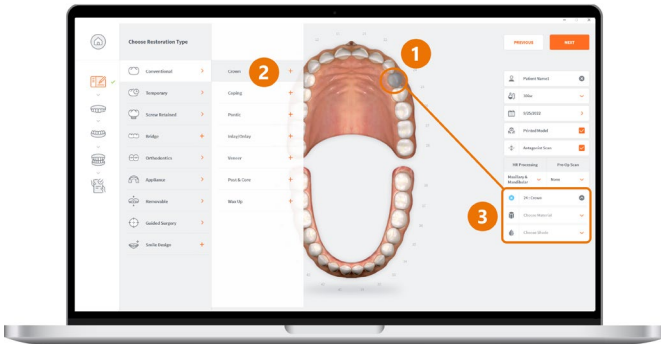
**Step 2.** Enter Order **Form** details & options

**Step 3.** Select Scan **options** (Model Scan, HR, Pre-Op)

**Step 4.** Select **Indications** and Restorations options

### Selecting Restorations

**Step 1.** Click on a tooth/teeth to select for restoration.



To select multiple teeth: Press and HOLD **Ctrl** and select the teeth for restoration.

**Step 2.** Select an **Indication** in the left-hand **Choose Restoration Type** menu.

**Corresponding** options for the selected **Indication** are displayed in the expanded list.

- Click to select the desired option.

The selected Restoration **Indication** is displayed in the right-hand **Case Setup** menu.

**Step 3.** Choose the desired **Restoration Options** for the **Indication(s)** selected by you.

For a full description of available **Restoration Options and Indications**,

visit [3DISC Online Help](#):

- [Case Setup Options](#)
  - [Order Form Options](#)
  - [Scan Options](#)
  - [Restoration Options](#)
- [Case Setup Settings](#)
  - [Select Teeth Numbering System](#)
  - [Select Shade System](#)
  - [Hide Patient Names](#)
  - [Hide Patient Names When Sending To The Lab](#)
  - [Selecting a Preferred Restoration Selector](#)
  - [Editing Restorations](#)
  - [Editing the Implants Library](#)
- [Indications](#)

## 7.4 Using the Image Acquisition tool

As part of the Scan&Tell™ *Communication Hub* , **3DISC OVO™ IOS** enables you to directly take intraoral videos and photos using the scanner and to manage them in **3DiscClinic™** and via iPad®.

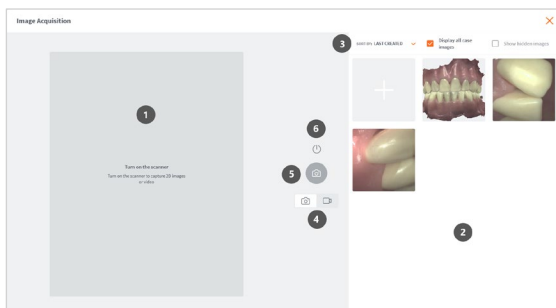
### Accessing the Image Acquisition tool ¶



To access the Image Acquisition tool:

- Select a case in the Case Preview page.
- Click on the Photo icon in the Case Preview page

This opens the *Image Acquisition* page:



## Image Acquisition features ¶

1. 3D model
2. Image gallery (photo & video)
3. Image gallery menu
4. Photo | Video toggle switch
5. Start Photo | Video
6. Start | Stop Scanner

For details of how to use the Image Acquisition tool, consult the following sections of the [3DISC Online Help](#):

- [Display all case images for a patient](#)
- [Importing images for a patient](#)
- [Taking an intraoral photo](#)
- [Taking an intraoral video](#)
- [Editing an intraoral video](#)
- [Enabling the Camera Workflow Start Camera](#)

## Viewing case images using the Scan&Tell™ application ¶

Video and photos taken using the **OVO™ IOS** scanner can be displayed on iPad® using the **3DISC Scan&Tell™** application, alongside other images taken during the scan workflow.

For information on using **3DISC Scan&Tell™** consult the following section of the [3DISC Online Help](#):

- [USING 3DISC SCAN&TELL1](#)

## Next Steps

For information on scanning with **3DiscClinic™** see:

- [Chapter 8 - Scanning with OVO™ IOS](#)

## 8. Scanning with the 3DISC OVO™

For an online version, visit: [Scanning with your 3DISC IOS Solution](#)



### Important Notice

Before launching a scan, make sure that:

- The computer on which the 3DiscClinic™ software is installed meets [Minimum Requirements](#).
- The computer on which the 3DiscClinic™ software is installed is connected to an external power source.
- The OVO™ IOS Scanner is correctly connected to the computer via the USB 3.0 cable and the 3DiscClinic™ software is running.



**IMPORTANT:** If using a laptop computer, **make sure the power supply is connected to a power outlet** and not running on battery power. Failure to do so will mean that the scanner will not have sufficient power to produce images.

On laptop computers, **battery settings in Windows** should be configured to **high performance mode only**, with **no battery saving option** (Settings/System/Battery).

See above: [Section 3.1 Connecting the OVO™ IOS](#)

### 8.1 Accessing the 3DiscClinic™ Scan Workflow

To access the Scan Workflow:

- Click NEXT in the **Case Setup** page, or
- Select the **Maxillary** arch in the left-hand **Menu** by clicking on the icon, or by using the **Down** key on your keyboard. ↓



#### 3DiscClinic™ Scan Workflow

The **Workflow Menu** will display steps that correspond to the **Restoration** options selected in the **Case Setup** page.

- ✓ **Workflow Menu** steps in progress or completed are indicated by a green checkmark.

## 8.2 Scanning Arches

For your comfort, to scan the Maxillary arch, rotate the scanner tip to face up. Make sure the scanner tip *clicks* into place.

Avoid moving tissue: retract lips, cheeks & tongue.



### Scanning Procedure ¶

- Place the sterilized scanner tip in the patient's mouth beneath the third molars, keeping the scanner tip close to or touching the teeth.
- Switch on the **OVO™ IOS** Scanner by pressing the **ON/OFF** button on the scanner handpiece.
- You may pause the scan at any moment by pressing the **ON/OFF** button on the handpiece.
- Follow the scanning procedure described below:

**1. Occlusal – 2. Buccal – 3. Palatal**

**Step 1. Scan Maxillary Occlusal *End-to-End***

**Step 2. Scan Maxillary Buccal *LEFT***

**Step 3. Scan Maxillary Buccal *RIGHT***

**Step 4. Scan Maxillary Palatal *End-to-End***

When you are finished scanning:

**Step 5. Switch OFF** the **OVO™ IOS** Scanner by pressing the **ON/OFF** button on the scanner handpiece.

The OVO software will process the Maxillary scan data before moving on to the next phase of the Scan Workflow.

If you have selected the **Antagonist Scan** in the **Case Setup** page, you will be invited to select the Mandibular arch:

### Scanning the Mandibular Arch

**Step 6. Repeat** the same scanning strategy for the Mandibular arch as described above for the Maxillary arch, but in the following order:

**1. Occlusal – 2. Lingual – 3. Buccal**

When the scan is completed, the OVO software will process the Mandibular scan data. This may take a couple of minutes.

## 8.3 Using Scan Tools

At each step of the scan workflow, you can use the features available in the right-hand **Scan Tools** menu.



For information on using Scan Tools (1), visit the 3DISC Online Help:

### Using 3DiscClinic™ Scan Tools

- [Using the Quality Map\(c\)](#)
- [Disable/Enable Captured Color](#)
- [Taking Live View Screenshots](#)
- [Using Auto-Realignment](#)

For information on using Live Scan Tools (2), visit the 3DISC Online Help:

- [Using 3DiscClinic™ Live Scan Tools](#)

## 8.4 Carrying Out A Bite Alignment



The OVO™ IOS enables you to carry out fast and accurate **Bite Alignment** based on the scanned Maxillary and Mandibular arches.

For information on carrying out a bite alignment, visit the 3DISC Online Help:

### Carrying out an Automatic Bite Alignment

- [Auto-locking of bite scan](#)
- [Bite-alignment using a single bite segment](#)
- [Bite Alignment Tools](#)
- [Changing between automatic and manual mode](#)
- [Using audio-guidance](#)



## 8.5 3D Settings Scan Options ¶

3DiscClinic™ 3D Settings enable you to select settings preferences for the 3DiscClinic™ Scan Workflow .

3D Setting	Description
Hole Filling	When activated, the 3D scanning software automatically fills any regions in the scan - or “holes” - where data is missing. Holes are filled when the user stops scanning and the model is displayed on the screen.
Hole Highlighting While Scanning	When automatic hole highlighting is activated, this option highlights those areas where data is missing during the live scan. This enables the user to see where data is lacking and complete these areas.
3D Projection	Click to select either <i>Perspective</i> or <i>Parallel</i> default view of scanned arches. <b>Note:</b> This option is available in the 3D viewer after <b>Finalization</b> , and in the <b>Case Preview</b> page. It is not available while scanning.
Enable Colored ROI Overlay During Bite Alignment	Select to display colored <b>ROI</b> overlay during <b>Bite Alignment</b> . Activated by default. Triggers a <i>green/red</i> overlay during scan phase to indicate actively gathering data.
Enable High-Resolution Finalization	Select to enable default <b>High-Resolution (HR)</b> finalization of scans.
Enable Scan Optimization While Scanning	When activated, carries out scan optimization in the background during the scan.
Adapt Live View	Adapt <b>Live View</b> window to either <b>Scan From Behind</b> or <b>Scan From Front</b> .
Use Enhanced Color in Finalization	Ensures a richer color and improves the sharpness within the final color data sets. Can be disabled to improve overall finalization time. ( <i>version 3.8</i> )

## 9. Finalizing a Case



For an online version, click: [Finalizing a Case in 3DiscClinic\\_](#)



### 9.1 Finalizing an Order

When you have completed the Scan Workflow for a patient, you are ready to finalize your order :

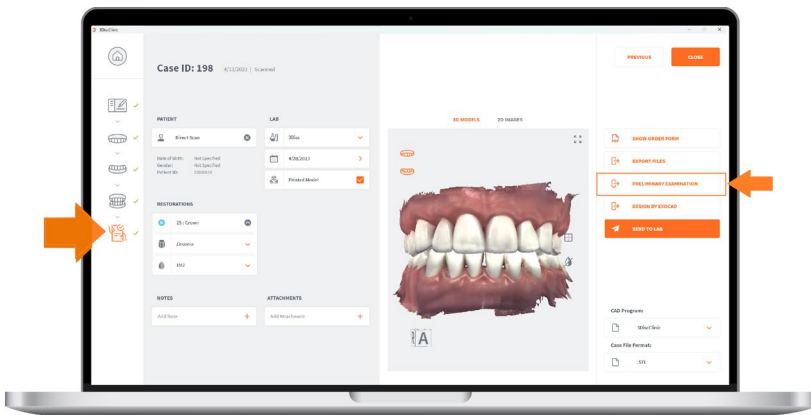
**Step 1.** Click on the **Finalization** icon in the right-hand Scan Tools menu:

This will launch the **Finalization process** .

When **Finalization** is completed, the **Case Finalization** page is displayed.

The **Case Finalization** page enables you to:

- Review/modify Case Setup Options.
- Complete Case Finalization Options ¶ (see *below* for details).
- Edit Case Files using the Case Finalization Tools
- Send your Order to a Lab , or Export Case Files for integration in a third party system.



### Case Finalization Options ¶

The following Case Finalization Options are available:

No.	Finalization Option	Description
1	Patient Details	Patient Name, Date of Birth, Gender, Patient ID. For Patient Details options go to: <b>Error! Reference source not found.</b>
	Lab Details	Lab connection, Requested Delivery Date, Printed Model. For details of Lab options go to: <b>Error! Reference source not found.</b>
2	Order Form & Export	Order Form PDF, Local Export configuration, Send to Lab. For more details go to: <b>Error! Reference source not found.</b>
3	Restorations	For details of available Restorations options, go to: <b>Error! Reference source not found.</b>
4	3D Models & 2D Images	Preview of <b>3D Model</b> and <b>Live View Screenshots</b> , providing access to <b>Case Finalization Tools</b> :  - For information on Live View Screenshots taken during the scanning process, go to: <a href="#">Taking Live View Screenshots</a>  - For information on <b>Case Finalization Tools</b> , go to: <a href="#">Using Case Finalization Tools</a>
5	File Export & Format	CAD Program and Case File Format options: <a href="#">CAD Program Options</a> <b>Case File Format Options</b>
6	Notes & Attachments	Add relevant notes and files
7	Preliminary Examination	The Preliminary Examination option is available as part of the 3DISC OVO™ Intraoral Scanner Solution.

## 9.2 Carrying out a Preliminary Examination

The **3DiscClinic Preliminary Examination** feature provides a fully integrated communication toolbox that enables users to:

- Build patient files with 3D data, 2D images and Video
- Perform preliminary examinations & build treatment plans
- Dialogue with patients and present treatment options via **3DISC Scan&Tell™**
- Carry out follow up of patients using the **3DISC Scan&Tell™ Buccal Monitoring** feature



### Accessing the Preliminary Examination page

To access the 3DiscClinic Preliminary Examination feature:

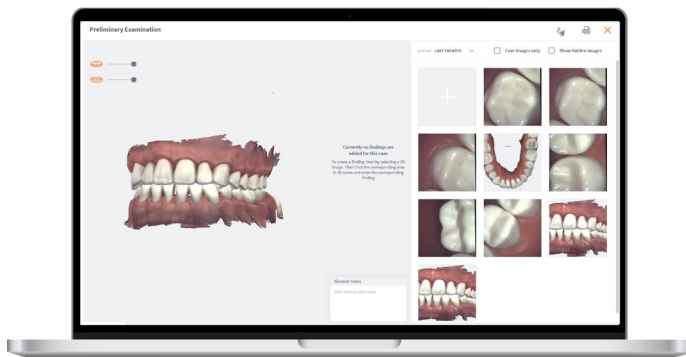
**Step 1.** Select a Patient Case in the Case Preview page.

1. Click Open Case.

This opens the **Case Finalization** page.

2. In the Case Finalization page, click Preliminary Examination

This opens the Preliminary Examination page:



The Preliminary Examination page automatically displays:

- 3D Model (scan data) associated with the case
- 2D images and videos associated with the patient

## Image Gallery Display Options ¶

To view only 2D images and videos associated with this specific case:

- In the top right-hand menu, select **Case Images Only**

To sort images by Creation date:

- Select **Last Created**

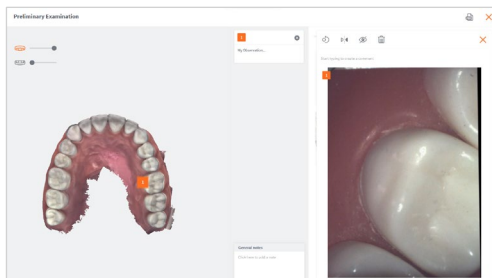
Images that have been added in the image acquisition page can be hidden. To display images you have hidden:

- Select **Show Hidden Images**

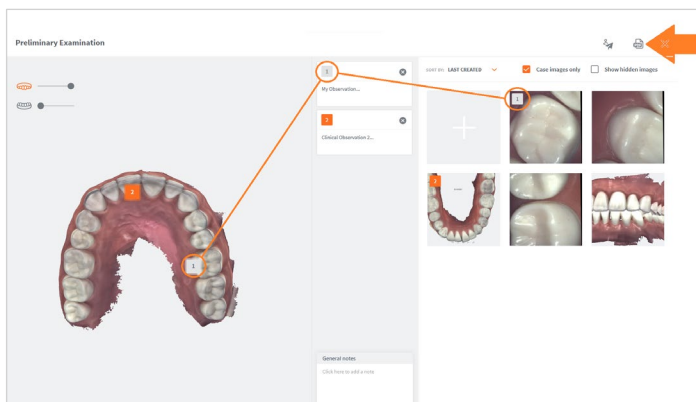
## Adding Findings for a Case

To add a Finding for a case:

- Select a 2D image or video in the right-hand image gallery.
- Click on the corresponding region of the 3D Model.
- Add an observation in the corresponding Comments box.
- Click to close the image.



Findings and corresponding image files are displayed as shown.



You can add several **Findings** for the same case...

## Generating an Examination Report ¶

You can generate an Examination Report for your consultation to share with the patient:



To generate an **Examination Report**:

- Click on the pdf icon

## Sending a Preliminary Examination Report to a Patient ¶

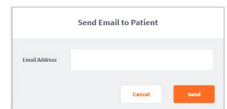
To send an Examination Report directly to the patient:



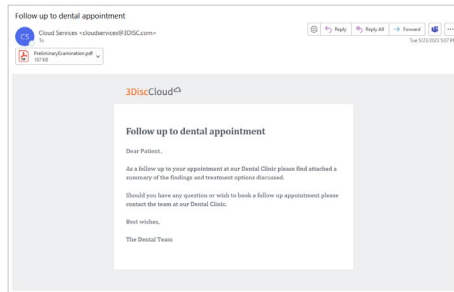
- Click on the Send Report icon in the Preliminary Examination task bar:

This opens the Send Email to Patient dialog box.

- Enter the patient email address and click **SEND**.

A dialog box titled 'Send Email to Patient'. It contains a text input field labeled 'Email Address' and two buttons at the bottom: 'Cancel' and 'Send'.

The patient will receive a Follow up to dental appointment email and Examination Report (PDF):



**3DISC Scan&Tell™** enables you to connect to **Preliminary Examination** details via iPad to allow you to better discuss, advise and interact with your patients.

For information about Scan&Tell™ features and use, see above:

Chapter 5 - Using 3DISC Scan&Tell™



## 9.3 Using Case Finalization Tools



For an online version, click: [Using Case Finalization Tools](#)

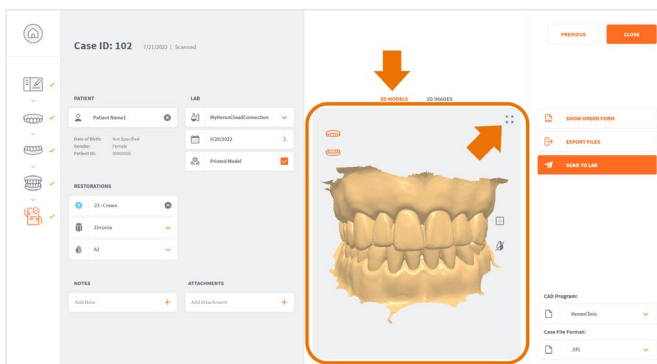
### Case Finalization Tools

Case Finalization Tools are available in the **Case Finalization 3D Models** tab.

To access **3D Model Case Finalization Tools** :

**Step 1.** Click on the **3D Models** tab.

**Step 2.** Expand full-screen to access all view and edit options.



For information on using **Case Finalization Tools** in **3DiscClinic™** visit the [3DISC Online Help](#):

- [Using the Margin Line Tool](#)
- [Using the Model Closing Tool](#)
- [Reviewing 2D images](#)

### Next Steps

When you have finalized a case, you are ready to send the case to a lab.

See below: [Chapter 10 - Communicating With Labs](#):

- [Section 10.1 - Linking a 3DiscClinic™ account to 3DiscCloud™](#)

## 10. Communicating With Labs

For an online version, visit: [Communicating with Labs](#)



The 3DiscCloud enables you to send orders directly to labs, manage the progress and status of orders, and create and manage groups of Dental Clinic and Dental lab profiles.

To send orders to a lab via the 3DiscCloud™ platform:

- Step 1.** Link your **3DiscClinic™** account to the **3DiscCloud™** platform.
- Step 2.** Create a **3DiscCloud™** User Account
- Step 3.** Configure a connection with a lab in **3DiscCloud™**.

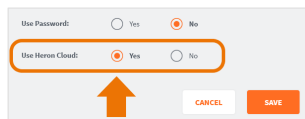
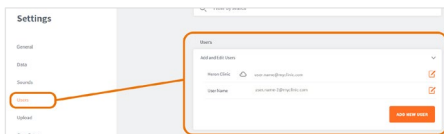
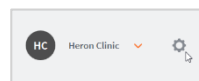


**IMPORTANT:** The 3DiscCloud™ platform is designed to facilitate file sharing and manage connections with laboratories. It is **NOT** intended as a cloud storage service.

### 10.1 Linking a 3DiscClinic™ account to 3DiscCloud™

To link your 3DiscClinic™ account to the 3DiscCloud:

- Step 1.** Click on the System Settings icon in the 3DiscClinic™ Start screen.
- Step 2.** In Users settings, click **Add or Edit Users** using the administrator account (HC).
- Step 3.** Select **Use 3DiscCloud™** in the **Add or Edit Users** dialog box.
- Step 4.** Click **Save**.



The **3DiscCloud™ Login** window will open automatically, inviting you to **Login** or to **Create a New Account**.



## 10.2 Creating A 3DiscCloud™ User Account (Clinic)

To create a user account in 3DiscCloud™:

### Step 1. Click **Create New Account**.

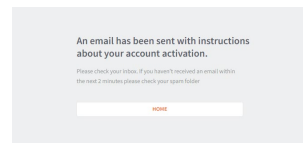


The left screenshot shows the 3DiscCloud login page. It has a dark header with the 3DiscCloud logo. Below the header, there's a section titled 'Sign in to 3DiscCloud' with a subtext 'Enter your details below'. There are input fields for 'Email Address' and 'Password', a 'SIGN IN' button, and a 'Forgot your password?' link. Below that, there's a 'Or sign in with one click' section with Facebook and Google icons. At the top right, there are links for 'English', 'CONNECT TO US SITE', 'Don't have an account?', and 'CREATE ACCOUNT'. The right screenshot shows the 'Create New Account' form. It has a title 'Create New Account' and a subtext 'Enter your details below and click "Create Account"'. The form has several fields: 'Email Address', 'Password' (marked with a red asterisk), 'First Name', 'Last Name', 'Telephone (optional)', 'Institution Name', 'Country' (a scroll-down menu), 'Phone', and 'Address'. There's a 'CREATE ACCOUNT' button at the bottom. A small note at the bottom says 'Upload an image to your connection can easily recognize your case (optional)'.

**Step 2.** In the dialog box **fill** in the required fields (marked with a red \*)

**Step 3.** Click **Create**.

An email will be sent to you to confirm the email address.



**Step 4.** Click the confirmation link to activate your **3DiscCloud™** account.

**Step 5.** Click **HOME** to access the **3DiscCloud™** Sign In page.

**Step 6.** Select a **language** in the scroll-down menu.

**Step 7.** Enter your Admin account email address and password.

**Step 8.** Click **Sign In** to access your **3DiscCloud™** Clinic account.

### Validating your region

The European **General Data Protection Regulation (GDPR)** requires data managed in the European Union to be managed on servers within the EU.

When connecting to 3DiscCloud™ for the first time you will have to validate your region.

When you login for the first time a popup will invite you to select the country where you are located.

When you select a country, your data will be assigned to the selected region.

From Jan 8th 2023, the data storage region assigned to your account will depend on your location. Please select the country where you are located.

United States of America

SELECT LATER

SELECT NOW

Info

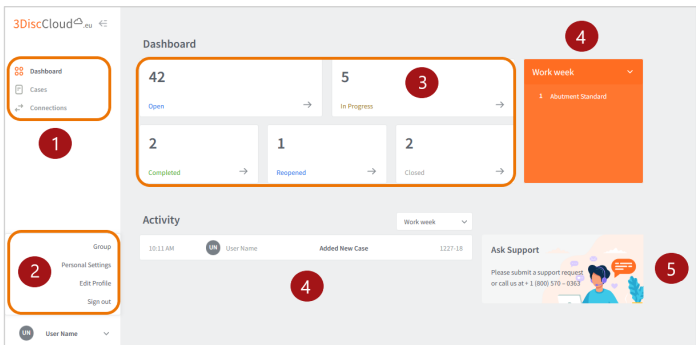
You have selected the United States of America as your country. Your data will be assigned to the selected region. This option cannot be modified after you click OK. Do you want to continue?

CANCEL

OK

### 10.3 Overview of the 3DiscCloud™ Dashboard

The **3DiscCloud™ Dashboard** provides an at-a-glance overview of activity and options associated with your account:



The **Dashboard** enables users to:

1. Access Patient Cases and configure connections with labs.
2. Configure account settings: Groups, Personal Settings, User Profile, Login/out.
3. Overview at-a-glance and access Patient Cases based on Case Status.
4. Select activity based on the display period.
5. Contact Support.



**IMPORTANT:** The 3DiscCloud™ platform is designed to facilitate file sharing and manage connections with laboratories. **It is NOT intended as a cloud storage service.**

# 10.4 Managing Case Status in 3DiscCloud™

## Filtering Cases

To filter cases in 3DiscCloud™:

- Step 1.** Select the filter icon at the top of the list of cases.
- Step 2.** Select the status, creation period, and/or an institution/user.
- Step 3.** Click **Apply**.

To remove an active filter click **Reset All**.

Filters

CASE STATUS

AllOpenIn ProgressCompletedReopenedClosed

CREATION DATE

From YYYY-MM-DDTo YYYY-MM-DD

CREATED BY

Institution AllPerson All

RESET ALL

APPLY

## Displaying Cases by Status

To display patient cases by status in 3DiscCloud™:

- Step 1.** Click on the **Cases** icon in the left-hand menu.
- Step 2.** Click on a Status button to display the corresponding list of cases.
- Step 3.** Click again on a Status button to deselect a status.  
(You can select multiple status).

## Case status descriptions and permissions

The following case status are available in 3DiscCloud™:

CASE STATUS

AllOpenIn ProgressCompletedReopenedClosed

Status	Description	Managed by
Open	Case uploaded by Clinic to 3DiscCloud™	Clinic
In Progress	Case being processed by Lab (case status modified by lab)	Lab
Completed	Case treated and completed by Lab (case status modified by lab)	Lab
Reopened	Case closed and reopened. (case status modified by Clinic)	Clinic
Closed	Case closed. (case status modified by Clinic)	Clinic

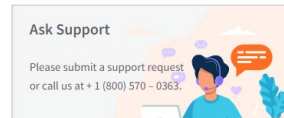
## 10.5 Contacting 3DISC Support in 3DiscCloud™

To contact **3DISC Online Support** via the **3DiscCloud™ Dashboard**:

**Step 1.** Click on **Ask Support** in the 3DiscCloud™ Dashboard.

This opens the Contact page of the 3DISC website.

**Step 2.** Click **Ask a question/Book a demo/3DISC Support** and enter your request.

A screenshot of the 3DISC website's "Contact" page. The page has a white background with the "3DISC" logo in orange at the top left. A navigation bar at the top right contains links for "3DISC", "OUR COMPANY", "SUPPORT & RESOURCES", and "CONTACT". The word "Contact" is displayed in a large, light grey font in the center. Below it, a horizontal line is followed by the text "Select an option". There are four buttons arranged horizontally: "Ask a question" with a document icon, "Book a demo" with a calendar icon, "Become Distributor or a dealer" with a globe icon, and "3DISC Support" with a hand holding a coin icon. Each button has a "Select" link below it. The "3DISC Support" button is highlighted with an orange border. At the bottom, there is a horizontal line followed by the text "3DISC Support".

**Step 3.** Click **Submit** to send your request to **3DISC Support**.



**NOTE:** All 3DISC online support requests are encrypted to respect user and patient data protection.

# 11. Maintenance

## 11.1 Cleaning the Handpiece

The entire body, cord and base of the scanner must be wiped down using a **Federal Environmental Protection Agency (EPA)** approved disinfectant that is labeled and specified for tuberculocidal/ mycobactericidal activity. Do not use disinfectant on the nozzle.



**IMPORTANT:** All components of the scanner (excluding the tips) must be **wiped down** and not sprayed. Avoid getting any moisture, alcohol or disinfectant inside the open scanner chamber.

### Recommended and approved surface disinfectants:

- Birex Wipes: TB Claim= 10 minutes- ‘Phenolic (Dual) Water-Based’
- Prospray Wipes: TB Claim=10 minutes- ‘Phenolic (Dual) Water-Based’
- Cavicide Wipes: TB Claim=3 minutes- ‘Phenolics (Dual) Alcohol-Based’
- DisCide ULTRA Wipes: TB Claim-1 minute- ‘Phenolics (Dual) Alcohol-Based’
- Maxiwipe Germicidal Cloth: TB Claim=5 minutes- ‘Phenolics (Dual) Alcohol-Based’
- Ster 1 Plus: TB Claim=5 minutes- ‘Quaternary ammonium and Alcohol-Based’

## 11.2 Cleaning and Sterilizing Tips



**IMPORTANT:** The included tips must be autoclaved prior to use as they do not come pre-sterilized.



**IMPORTANT:** Ensure that the surface of the mirror does not show residues, smudges, scratches, or any damage, as this would affect the performance of the device.

### Step-by-Step Procedure

- Step 1.** Clean the tip with soapy water, ensuring that the mirror is clean and free of smudges, stains, or any

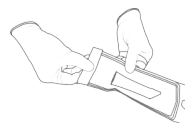


residue. Avoid using abrasive cloth materials as this will scratch the mirror.

**Step 2.** After drying the tip exterior, carefully dry the interior and mirror with lint free wipes ensuring you do not scratch the surface. The mirror should be free of any noticeable debris or water spots.

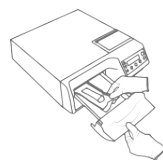


**Step 3.** Insert and seal the tip into a sterilization pouch. Make sure the seal is airtight. Each tip should be packaged individually.



**Step 4.** Sterilize the wrapped tip in a steam autoclave at the following parameters:

- 132°C (270°F) at 4 minutes, or
- 134°C (273°F) at 4 minutes, or
- 121°C (250°F) at 45 minutes



**Step 5.** Ensure the dry cycle is complete prior to removing the tip from the autoclave. If the pouch is damp with moisture, proper sterilization cannot be guaranteed.



**WARNING:** Always autoclave the tip wrapped in a sealed sterilization pouch; failure to do so will result in permanent stains on the mirror.



**NOTE:** Tips should not be placed in an ultrasonic cleaner or any cold sterile solutions. The sterilant solutions will leave a sticky residue or film on the mirror when drying.



**WARNING:** Do not autoclave the handpiece of the device.



**WARNING:** Do not remove the pouch before the sterilizer completes its full dry cycle. If the pouch is wet or has any signs of moisture, this can potentially leave water spots on the mirror which can affect image quality during scanning.

## 11.3 Disposal

The OVO is an electrical device with electronical components inside and should be disposed of in accordance with local environmental laws and regulations.

## 11.4 Calibration

The OVO™ IOS is calibrated in the factory and therefore does not require calibration when installed.



**WARNING:** General prohibition indication. The functionality of the system can be destroyed in the case of incorrect use. If unauthorized changes have been made to the delivered system and accessories, the warranty by 3DISC becomes void. 3DISC will not accept any responsibility or liability for the improper functioning of the product in such a case.



**WARNING:** Use extreme caution when cleaning the mirror as it is very delicate and is prone to scratching.

If the **OVO™ IOS** begins to have problems scanning and recognizing teeth models, contact your dealer or **3DISC Support** technician.

If the scanner cannot be recalibrated remotely, this may result in the system being returned for repair/ calibration.

For more information, see below:

- [Chapter 12 - Support, Warranty and Repair Service.](#)

## 12. Safety Guidelines and Warnings

### 12.1 Warnings and Symbols



**NOTE:** Notes represent information that is important to know but which do not affect the functionality of the system.



**WARNING:** The functionality of the system will be limited in the case of incorrect use.

### 12.2 General Guidelines

- Do not spill liquids on the body of the device
- Never operate the device in a wet environment.
- Keep the device away from radiators and heat sources.
- Use the device only with the accessories supplied.
- Do not alter the device or open enclosures.



**WARNING:** General prohibition indication. The functionality of the system can be destroyed in the case of incorrect use. If unauthorized changes have been made to the delivered system and accessories, the warranty by 3DISC becomes void. 3DISC will not accept any responsibility or liability for the improper functioning of the product in such a case.

If any of the following conditions occur, unplug the device from the electrical outlet and contact authorized service personnel:

- The power cord or power adapter is damaged.
- The device has been exposed to water.
- The device has been damaged.
- The device does not operate correctly when the operating instructions are followed.



## 12.3 General Warnings

### System Modification



**WARNING:** Modifying the system may result in physical injury to the patient and operator, and damage to the system.

### Approved Software

The OVO™ IOS device is designed to operate with the 3DiscClinic™ software.



**WARNING:** The OVO™ IOS scanner should only be used with approved, compatible software.

### Equipment Failure



**WARNING:** In case of **system** malfunction or failure, you should:

- Prevent any contact between the system and the patient.
- Unplug the system from the power outlet and the computer.
- Store the system away so it cannot be used by someone else.
- Contact service personnel.

## 12.4 Mechanical Hazards

### Moving Parts



**NOTE:** All moving parts are inside handheld scanner so do not open the unit.

### Dropped Equipment



**WARNING:** If the scanner tip is dropped, ensure that the mirror is not damaged and that it is not detached; if the tip is damaged it should be disposed of immediately. If the scanner handpiece is dropped or bumped, ensure that no part of the system is damaged as it could affect performance.

## Base



**NOTE:** When not in use, always rest the handpiece on the Base. The Base may be mounted on the wall per provided instructions. Do not place the Base on a slanted surface. Place the cables (power cable and USB cable) where people cannot accidentally get caught in them and potentially damage the system.

## 12.5 Electrical Safety

### Electrical Shock



**WARNING:** There is a risk of electrical shock when opening or attempting to open any part of the system; only qualified service personal should open parts of the system.

### Stress on Cables



**WARNING:** Care should be taken not to apply unnecessary stress on the cables of the system, whether it is the power cable, the USB cable or the cable between the handpiece and the Base.



**WARNING:** Only use the power adapter supplied as a part of the system.

## 12.6 Eye Safety



**WARNING:** During operation, the system emits a bright, flashing light from its tip. Although the system complies with standard IEC 62471 (Photobiological safety of lamps and lamp systems), prolonged exposure to flashing light may result in discomfort, seizure or eye irritation.

## 12.7 Hygiene



**WARNING:** In order to maintain safety for the patient, wear surgical gloves when handling any parts of the system. Always ensure that the tip is mounted on the handpiece before inserting it into the mouth of the patient. Before using the system with a new patient, ensure that the system is disinfected, and the tip is sterilized.

## 12.8 Precautions During Systems Operation



**WARNING:** The OVO™ IOS system contains delicate optical and mechanical elements and therefore should be handled carefully. Do not drop, bump, or shake the handpiece or the tip. Always place the handpiece on the Base when not in use. Do not put stress on the cable connecting the handpiece to the Base. Do not submerge the handpiece or the Base in any liquid. Do not place the handpiece or the Base on wet or heated surfaces. Hold the handpiece with a firm grip when handling it.



**WARNING:** In order to prevent over-heating of the system, the ventilation opening at the bottom of the handpiece should never be obstructed.



**NOTE:** During operation of the system, the handpiece and the tip may get slightly warm; this is normal.

## 12.9 OVO™ IOS Performance



**WARNING:** Portable RF communication equipment (including peripherals such as antenna cables and external antennas) should not be used within 30 cm of any part of the OVO™ IOS, including cables specified by the MANUFACTURER. Otherwise, performance degradation of this equipment may occur.

Under normal use, the OVO™ IOS should transmit images to the laptop/workstation with the installed image manipulation software and the video stream is visible in the bottom left corner of the screen. If not used properly, there may be loss of transmission of image information or slow transmission temporarily.

## 12.10 Accessories

Accessory	3DISC Part Number
USB 3.0 Cable	IOS-CP-00-043
AC/DC Power Adapter	IOS-CP-00-088

## 12.11 EMC Guidance and Declaration

OVO™ IOS is intended for use in a professional healthcare setting with electromagnetic environment specified below.

### Electromagnetic Emissions




**WARNING:** Use of this equipment adjacent to or on other equipment must be avoided as it may result in improper operation. If this use is necessary, it is advisable that this and the other equipment be observed to verify that they are operating normally.

Emissions Test	Compliance	Electromagnetic Environment Guidance
RF Emissions CISPR 11	Group 1, Class A	OVO™ IOS uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage Fluctuations/Flicker Emissions IEC 61000-3-3	Complies	OVO™ IOS is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

### Electromagnetic Immunity

Immunity Test	Test Level	Compliance Level	Electromagnetic Environment Guidance
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Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV /Contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV /air	± 8 kV /Contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV /air	Surface should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/ burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	± 2 kV for power supply lines ± 1 kV for input/output lines	Mains power quality should be that of a typical professional healthcare facility environment.
Surge IEC 61000-4-5	± 0.5 kV, ± 1 kV line(s) to line(s) ± 0.5 kV, ± 1 kV, ± 2 kV line(s) to earth	± 0.5 kV, ± 1 kV line(s) to line(s) ± 0.5 kV, ± 1 kV, ± 2 kV line(s) to earth	Mains power quality should be that of a typical professional healthcare facility environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5% UT (>95% dip in UT) for 0,5 cycle 40% UT (60% dip in UT) for 5 cycles 70 % UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 s	<5% UT (>95% dip in UT) for 0,5 cycle 40% UT (60% dip in UT) for 5 cycles 70 % UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5 s	Mains power quality should be that of a typical professional healthcare facility environment.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a location in a typical professional healthcare facility environment.
Radiated RF IEC 61000-4-3	Table 9 in IEC-60601-1-2:2014	Table 9 in IEC-60601-1-2:2014	<p>Portable and mobile RF communications equipment should be used no closer to any part of the OVO™ IOS system, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance:</p> $d = \left[ \frac{3.5}{V1} \right] \sqrt{P} \quad 150 \text{ kHz to } 80 \text{ MHz}$ $d = \left[ \frac{3.5}{E1} \right] \sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = \left[ \frac{7}{E1} \right] \sqrt{P} \quad 800 \text{ MHz to } 2.5 \text{ GHz}$ <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined</p>
Conducted RF IEC 61000-4-6	3V 0.15-80MHz 6V in ISM bands between 0.15 MHz and 80 MHz 80% AM at 1KHz	3V 0.15-80MHz 6V in ISM bands between 0.15 MHz and 80 MHz 80% AM at 1KHz	

			<p>by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
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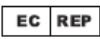











*NOTE: UT is the A.C. mains voltage prior to application of the test level.*

**Recommended Separation Distances Between Portable and Mobile RF Communications Equipment and the OVO™ IOS System that is not Life-Supporting**

OVO™ IOS System is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The customer can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the OVO™ IOS system as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = \left[\frac{3.5}{V1}\right]\sqrt{P}$	80 MHz to 800 MHz $d = \left[\frac{3.5}{E1}\right]\sqrt{P}$	800 MHz to 2.5 GHz $d = \left[\frac{7}{E1}\right]\sqrt{P}$
0,01	0.12	0.12	0.23
0,01	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
<p>For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.</p> <p>NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.</p> <p>NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			

## 12.12 Symbols on the OVO IOS and Transport Case

Symbol	Description
	Manufacturer's trade name and address (ISO 15223-1)
	Date of manufacture (ISO 15223-1)
	Equipment Power On/Off (push/push)
	USB 3.0 plug
	Warning, Consult Accompanying Documents
	General mandatory action manual
	General prohibition indication
	User Manual Reference
	Directive on Waste Electrical and Electronic Equipment
	Authorized Representative in the European Community
	Warning label for LED
	Non-ionizing electromagnetic radiation
	Direct Current
	Type(B) Level of protection against electric shock
	European Conformity mark
	Consult operating instruction for use.
	Prescription symbol
	Non-sterile (Scanner-Tips) (IOS-FPL-71-001)
	User manuals are available electronically at the link provided <a href="https://3disc.com/support-resources/OVO-ios-user-manuals/">(3disc.com/support-resources/OVO-ios-user-manuals/)</a>
	INMETRO Certification Mark
	Ukraine Conformity Mark

# 13. Support, Warranty and Repair Service

## 13.1 Support

If you have questions about the software, please consult the manual and Help menu in the software. If you are experiencing issues with your software, please check the list of common issues provided below prior to contacting a dealer. It could be simply a question of a minor issue that can be fixed quickly. However, if you’re still experiencing problems after following the recommendations in this section, then please contact the dealer where you bought the equipment.

### Operating Issues Checklist

Issue	Recommendation
There’s a memory full error message that pops up when the software is open.	Clear some space on the C Drive
The status in the Live view window is “Disconnected”.	Check that you have external power to the OVO and that the USB cable is connected to a USB 3 Port.
Scanning is very slow.	Check that the Laptop is connected to an external power source.
The corners are cut in the live view window.	Check that the Tip is correctly mounted and when rotating it is locking in place with a click.
There is a red square in the scan window	Go back to a tooth that is scanned and start from there again
No images appear when scanned but everything else (e.g. live window image, sounds, FPS) works fine.	The scanner might need to be recalibrated. Please contact your local dealer for support.
There are spots on the Live view window.	Check and clean the mirror of the tip.
Where can I get the OVO™ IOS software and manuals?	Software and manuals can be downloaded in the Support section of the 3DISC website.

## 13.2 Standard Warranty

3DISC warrants its non-consumable hardware products to be free from defects in materials and workmanship. The warranty covers the cost of parts and labor to repair the product.

Please keep the shipping container for future use. Products returned to the factory for repair should be properly packaged. To obtain warranty service, follow the procedure described in the Repair Service section. Failure to do so will cause delays and additional expense to the customer.



The warranty is valid when the product is used for its intended purpose and does not cover products which have been modified without written permission from 3D Imaging and Simulation Corp. Americas, or which have been damaged by abuse, accident or connection to incompatible equipment.

This warranty is in lieu of all other warranties, expressed or implied.

### 13.3 Repair Service

The OVO™ IOS cannot be serviced locally. In the event of a hardware malfunction, contact your dealer to arrange for a swap unit (same model or newer) so your unit can be replaced, and work can continue. Some testing might be needed in order to verify the Hardware/Software error or malfunction.

The company reserves the right to cease providing repair, maintenance, parts and technical support for its non-consumable hardware products five years after a product is discontinued.

### 13.4 Out of Warranty Repair Service

Out of warranty repair service is available in selected geographical locations. Contact the supplier for current terms and rates.

We hope this User Manual was helpful to you.  
For additional material and user information go to:

<https://docs.3disc.com>

OVO™ IOS User Manuals

OVO™ IOS How-to Videos

OVO™ IOS Training Videos

# 3DISC

# OVOIOS



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