

3DISC

Quick Guide

VOIOS



Version 4.0

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The Scan&Tell communication-hub

Introducing the OVO™ IOS	6
1.1 Introduction	6
1.2 OVO IOS Quick Guide	6
1.3 What's new in this version.....	7
1.4 Indications supported.....	7
1.5 Certification and compliance.....	7
1.6 Regulatory	8
1.7 Intended Use	8
1.8 Classifications	8
1.9 3DISC Privacy Policy and GDPR Privacy Statement.....	8
2. Components Overview	9
2.1 Hardware Components.....	9
2.2 3DISC Scan&Tell™ Hardware Accessories ¶].....	9
2.3 Software Components	10
2.4 System Requirements and Specifications.....	10
2.5 Minimum Computer Requirements.....	12
2.6 Environment Conditions	14
2.7 Power Input	15
2.8 Reusable Tips.....	15
2.9 Scanner Base and Handpiece.....	15
2.10 Calibration	15
3. Installing and connecting the OVO™ IOS.....	16
3.1 Connecting the OVO™ IOS.....	16
4. Getting Started With 3DiscClinic™	19
4.1 Launching 3DiscClinic™	19
Registration & Activation	19
Accessing the Admin User Account.....	20
4.2 Setting Up A 3DiscClinic™ User Account.....	21
Customizing the Admin User Account.....	21
4.3 Adding a New User Account	22
Password Protecting a User Account	22
4.4 Linking a User Account to the 3DiscCloud™	23
4.5 Accessing the 3DiscClinic™ Start Screen	25
4.6 Overview of the 3DiscClinic™ Start Screen	26
5. Using 3DISC Scan&Tell™	28
5.1 Download & Launch 3DISC Scan&Tell™	28
5.2 Connecting 3DISC Scan&Tell™ to 3DiscClinic™	29

5.3 Accessing Preliminary Examinations using Scan&Tell™	30
6. Configuring Settings & Preferences	32
6.1 3DiscClinic™ Settings	32
7. Managing Patients & Cases.....	33
7.1 Patients & Cases options	33
7.2 Creating a Patient Profile ¶	34
7.3 Creating a Case	35
7.4 Using the Image Acquisition tool.....	36
8. Scanning with the 3DISC OVO™	39
8.1 Accessing the 3DiscClinic™ Scan Workflow	39
8.2 Scanning Arches.....	40
8.3 Using Scan Tools	41
8.4 Carrying Out A Bite Alignment.....	41
8.5 3D Settings Scan Options ¶.....	42
9. Finalizing a Case.....	43
9.1 Finalizing an Order.....	43
9.2 Carrying out a Preliminary Examination	45
9.3 Using Case Review Tools.....	49
10. Communicating With Labs.....	50
10.1 Linking a 3DiscClinic™ account to 3DiscCloud™	50
10.2 Creating A 3DiscCloud™ User Account (Clinic).....	51
10.3 Overview of the 3DiscCloud™ Dashboard.....	52
10.4 Managing Case Status in 3DiscCloud™.....	53
10.5 Contacting 3DISC Support in 3DiscCloud™.....	54

Introducing the OVO™ IOS



1.1 Introduction

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.
- to Android tablet via [Google Play](#).



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 following:

- [3DISC Online Help](https://docs.3disc.com/) (https://docs.3disc.com/)
- 3DISC IOS Solutions - Safety, Regulatory & Technical Specifications User Guide [IOS-FPMSG-1]

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

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™ 4.0 software release.

For more information consult: [3DiscClinic 4.0 Release Notes](#).



1.4 Indications supported

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

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

* 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](#)

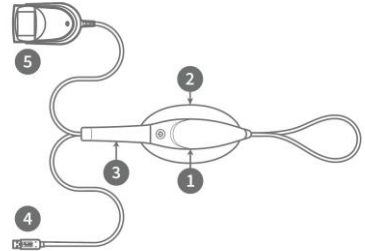
2. Components Overview

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.
- to Android tablet via [Google Play](#)

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. Note: 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. IMPORTANT: 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 Nvidia GPU is the only GPU activated on the PC and that <u>any Intel integrated GPU is disabled</u> . (This is usually achieved using high level configuration tools or BIOS commands). Warning: 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	Full HD (1920 x 1080) with DPI 100% NOTE: 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 <u>high performance mode only</u> , with <u>no battery saving option</u> .

Minimum Hardware Requirements

CPU Type	Intel i7 or i9 with 12 - 13 - 14 generation. Processors that do not have a minimum of 24 MB Intel® Smart Cache should be avoided. Click here to ► SEE THE AMOUNT OF CACHE FOR EVERY CPU
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	List of GList of GPU* recommended by 3DISC: <ul style="list-style-type: none"> • Quadro RTX3000, RTX4000 and above for laptop and desktop • RTX 20XX: Geforce RTX 2070, RTX 2080, RTX 2080TI (desktop), ... • RTX 30XX: RTX 3070, RTX 3080, RTX 3090 (desktop), ... • RTX 40XX: RTX 4060, RTX 4070, RTX 4080, RTX 4090, ... • RTX A-series: RTX A3000, RTX A4000, ... <p>*Laptop & desktop unless indicated otherwise.</p>

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 device.

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 Error! Reference source not found. Error! Reference source not found..**

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

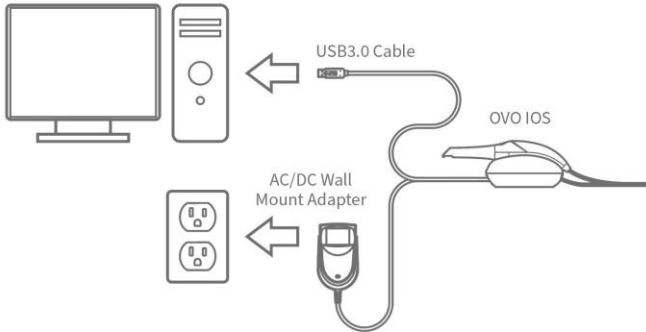
The OVO™ IOS™ is factory calibrated.

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 in 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.

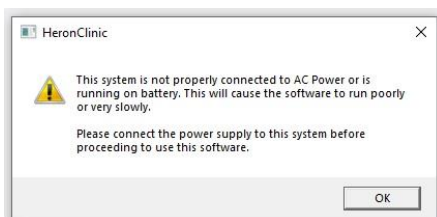
DO NOT plug the USB cable into an intermediate hub.

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.

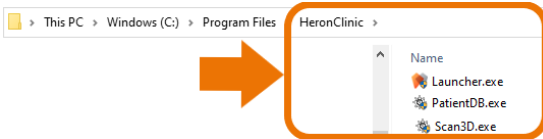
Configuring Windows High Performance Graphics Mode

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 10436

Installation Date 5/23/2022

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

The scanner has been successfully activated on your PC.

OK

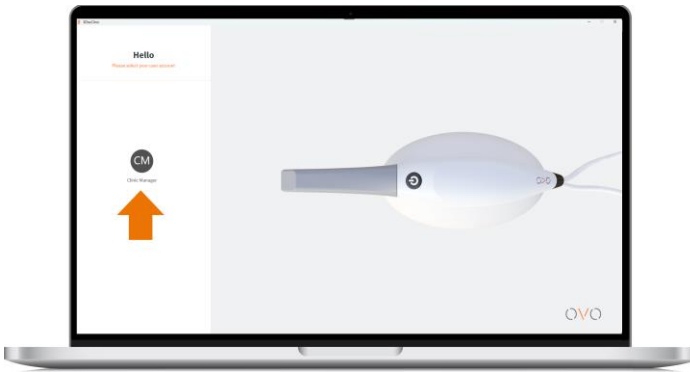


IMPORTANT: It will not be possible to perform new scans or export existing scans if the device has not been registered on the PC.

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



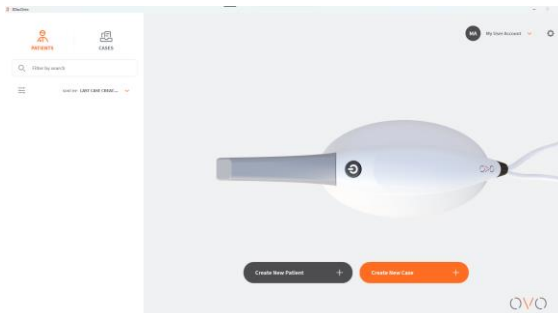
To access the Admin user account:

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

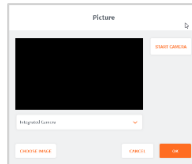
Customizing the Admin User Account

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

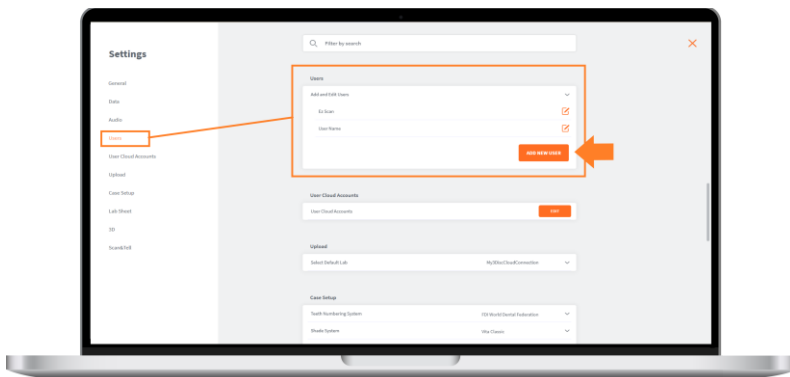
- Step 3.** Click the System icon located in the top right-hand corner of the User Start Screen, to access the **Settings** interface.
- Step 4.** Select **Users** in the left-hand **Settings** menu, and click on **Add and Edit Users**.
- Step 5.** Select the default **“OVO Clinic” User profile**, and 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

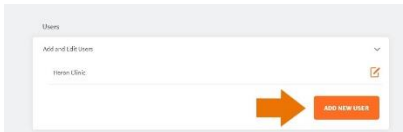
Only the **3DiscClinic™** Admin User profile (HC) can add new User Accounts.



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).

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.

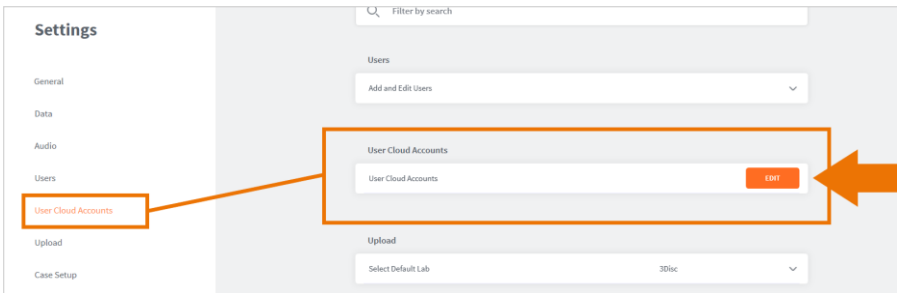
4.4 Linking a User Account to the 3DiscCloud™

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.



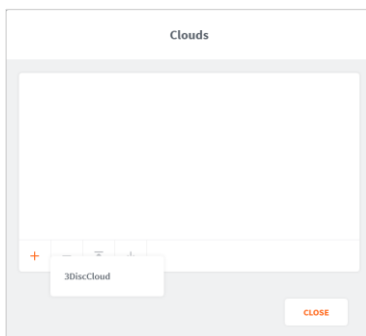
Note: The OVO IOS **3DiscCloud™** platform is designed to facilitate file sharing and manage connections with laboratories. **It is not intended as a cloud storage service.**

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



Step 1. Select User Cloud Accounts in the left-hand Settings menu and click EDIT.

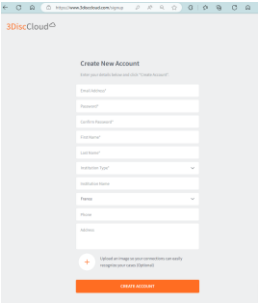
Step 2. This opens the **User Cloud Accounts** dialog box:



Step 3. Click the + icon, and select the 3DiscCloud™ platform from the list.

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

For more information, see below:

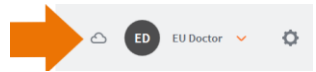


Communicating With Labs:

- 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

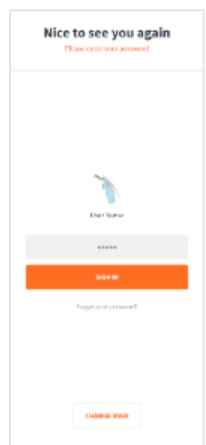
User accounts are displayed in the left-hand menu of the 3DiscClinic™ Home Page.

To access the User **Start Screen**:

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

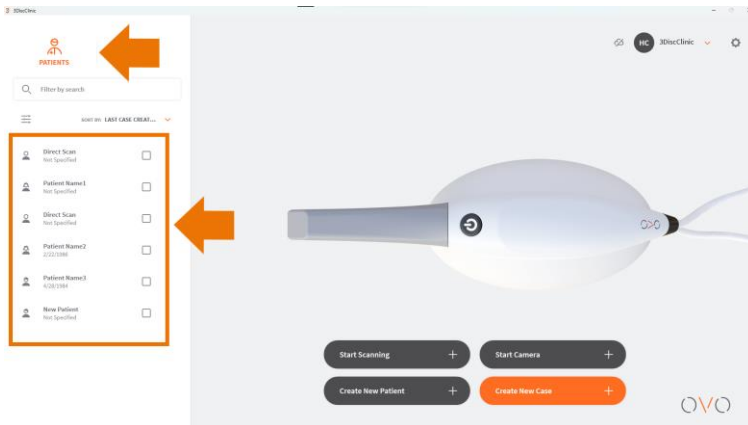
The **3DiscClinic™ Login** window will open automatically, inviting you to **Login** or to **Create a New Account**.

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:



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 the 3DISC OVOTM](#)

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:

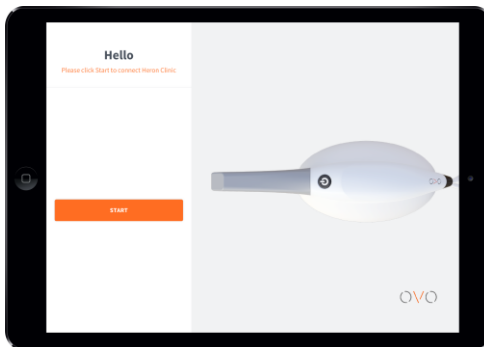
- On your iPad®, click on the App Store and go to the **3DISC Scan&Tell™** application.
- Click to download the **3DISC Scan&Tell™** application.
- To launch **3DISC Scan&Tell™** , click OPEN



3DISC-Scan&Tell
Dental Communication app

OPEN

3DISC Scan&Tell™ Start Page

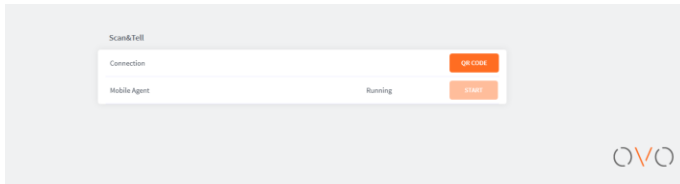


But wait... before you click **START** , go to **3DiscClinic™ Scan&Tell™ Settings...**

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.

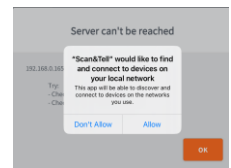
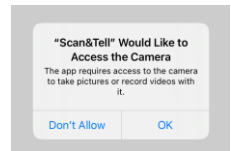
You are now ready to connect the Scan&Tell™ application installed on your iPad®

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.

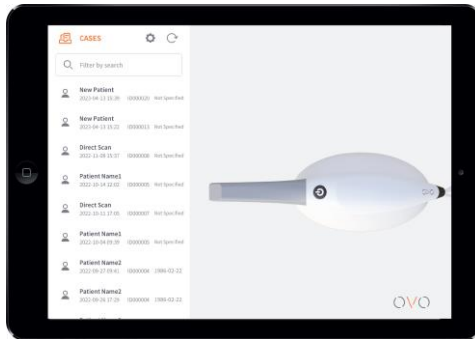


You will be invited to Scan the **3DISC Scan&Tell™ QR Code**:

- 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:

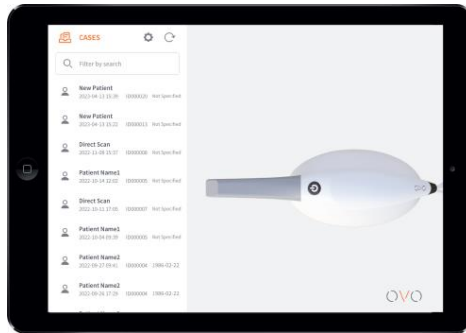
- Build patient files with 3D data, 2D images and Video
- Perform preliminary examinations & build treatment plans
- Easily dialogue with patients and present treatment options via **3DISC Scan&Tell™**



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:

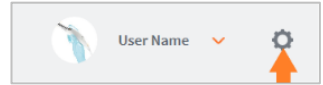
[Using the Image Acquisition tool](#)

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](#)
- [User Cloud Accounts](#)
- [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

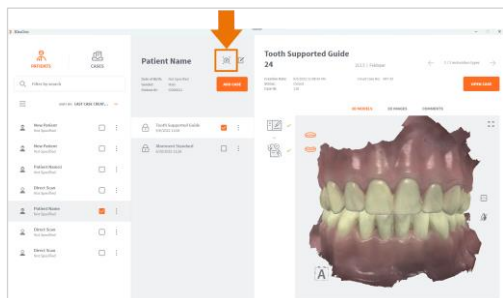
- [Managing Patients](#)
- [The 3DISC™ IOS Workflow](#)
- [Creating a Case](#)
- [Case Setup Options](#)
- [Case Setup Settings](#)

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.



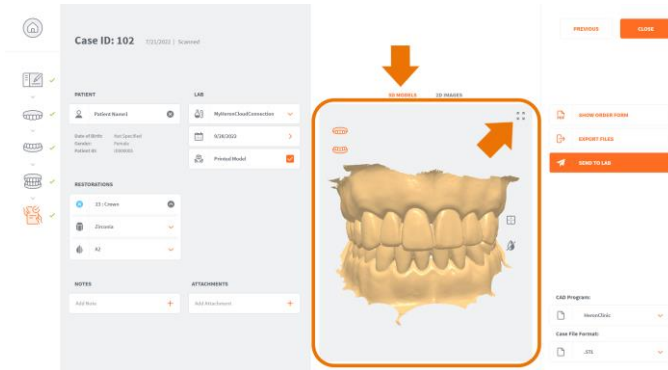
Opening a Case

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](#)

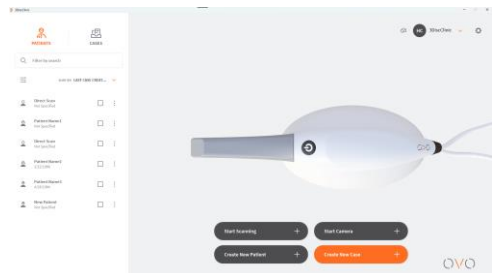
7.2 Creating a Patient Profile ¶

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**:

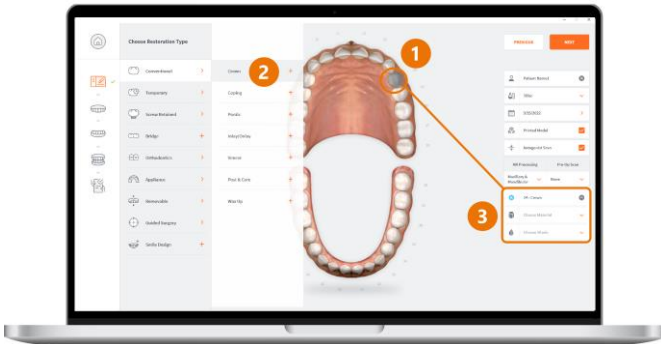
Step 2. Enter **Order Form** details & options

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:

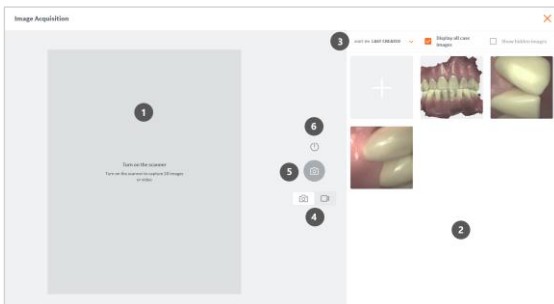


Image Acquisition features ¶

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&TELL™](#)

Next Steps

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

- [Chapter 8 -](#)

- Scanning with the 3DISC OVOTM

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. Note: This option is available in the 3D viewer after Finalization , and in the Case Preview page. It is not available while scanning.
Enable Colored ROI Overlay During Bite Alignment	Select to display colored ROI overlay during Bite Alignment . 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 High-Resolution (HR) finalization of scans.
Enable Scan Optimization While Scanning	When activated, carries out scan optimization in the background during the scan.
Adapt Live View	Adapt Live View window to either Scan From Behind or Scan From Front .
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 4.0</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 :

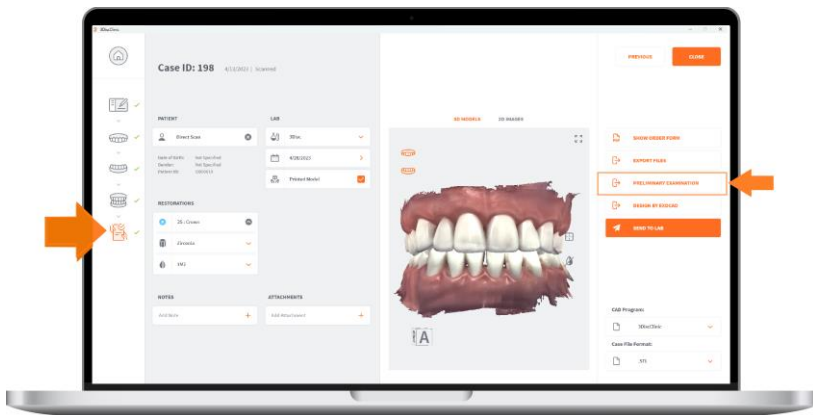
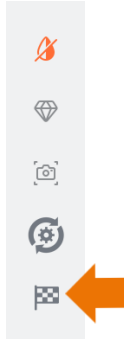
Step 1. Click on the **Finalization** icon in the right-hand Scan Tools menu:

This will launch the **Finalization process** .

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

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

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



Case Review Options ¶

The following Case Review Options are available:

No.	Review Option	Description
1	Patient Details	Patient Name, Date of Birth, Gender, Patient ID. For Patient Details options go to: Error! Reference source not found.
	Lab Details	Lab connection, Requested Delivery Date, Printed Model. For details of Lab options go to: Error! Reference source not found.
2	Order Form & Export	Order Form PDF, Local Export configuration, Send to Lab. For more details go to: Error! Reference source not found.
3	Restorations	For details of available Restorations options, go to: Error! Reference source not found.
4	3D Models & 2D Images	Preview of 3D Model and Live View Screenshots , providing access to Case Review Tools : - For information on Live View Screenshots taken during the scanning process, go to: Taking Live View Screenshots - For information on Case Review Tools , go to: Using Case Review Tools
5	File Export & Format	CAD Program and Case File Format options: CAD Program Options Case File Format Options
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:

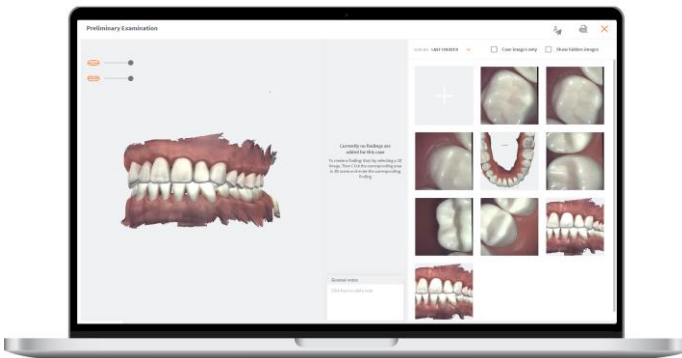
Step 1. Select a Patient Case in the Case Preview page.

1. Click Open Case.

This opens the **Case Review** page.

2. In the Case Review 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**

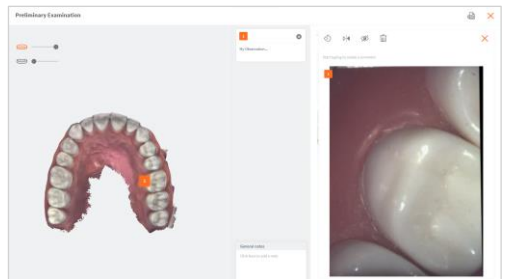
Images that have been added in the image acquisition page can be hidden. To display images you have hidden:

- Select **Show Hidden Images**

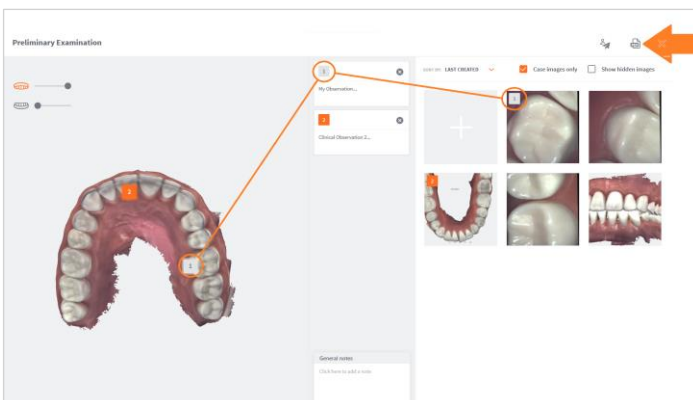
Adding Findings for a Case

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:



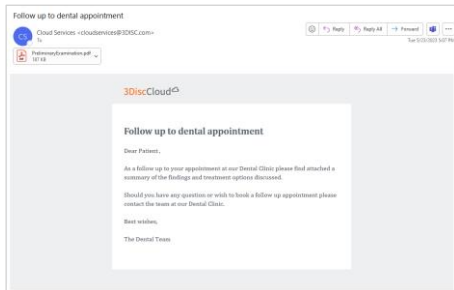
- Click on the Send Report icon in the Preliminary Examination task bar:

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:



Using 3DISC Scan&Tell™

9.3 Using Case Review Tools



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

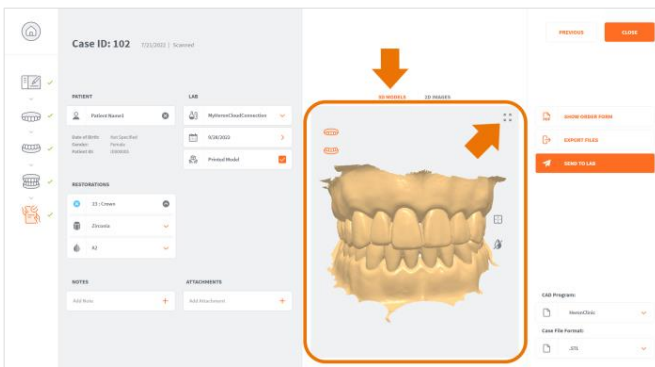
Case Review Tools

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

To access **3D Model Case Review 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 Review Tools** in **3DiscClinic™** visit the [3DISC Online Help](#):

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

Next Steps

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

See below: [Section 10.1 - Linking a 3DiscClinic™ account to 3DiscCloudTM](#)

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:

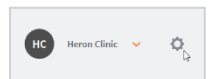
- Step 1.** Link your 3DiscClinic™ account to the 3DiscCloud™ platform.
- Step 2.** Create a 3DiscCloud™ User Account
- Step 3.** Configure a connection with a lab in 3DiscCloud™.



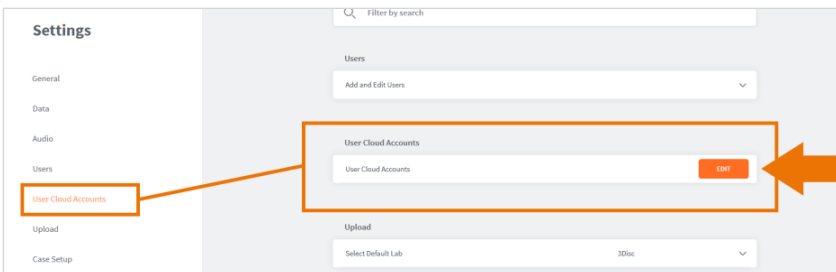
IMPORTANT: The 3DiscCloud™ platform is designed to facilitate file sharing and manage connections with laboratories. It is **NOT** intended as a cloud storage service.

10.1 Linking a 3DiscClinic™ account to 3DiscCloud™

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



- Step 1.** Select User Cloud Accounts in the left-hand Settings menu and click EDIT.

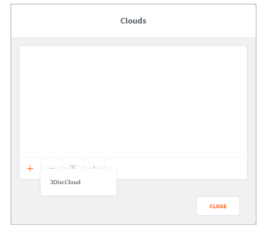


- Step 2.** This opens the **User Cloud Accounts** dialog box:

Step 3. Click the + icon and select the 3DiscCloud™ platform from the list.

Step 4. Click **Save**.

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

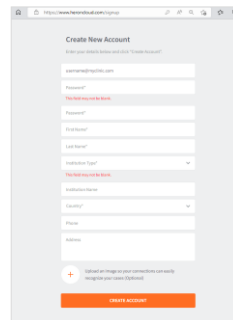
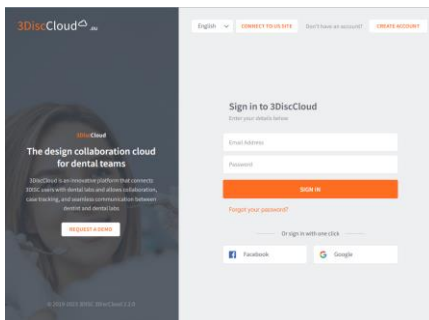


10.2 Creating A 3DiscCloud™ User Account (Clinic)

To create a user account in 3DiscCloud™:



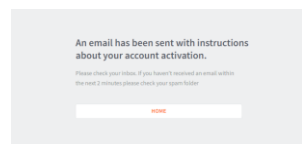
Step 1. Click **Create New Account**.



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](#)

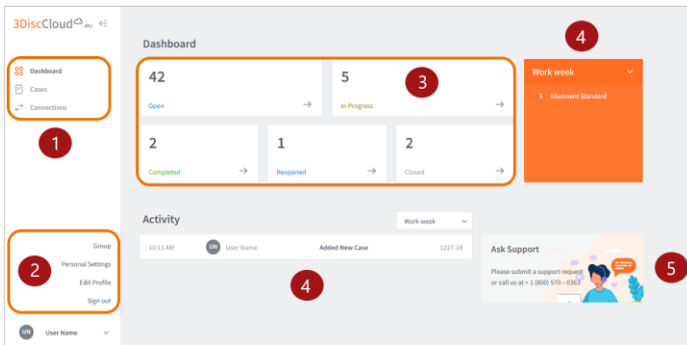
Info ✕

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**.

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

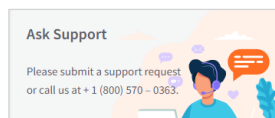
The following case status are available in 3DiscCloud™:

CASE STATUS

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™

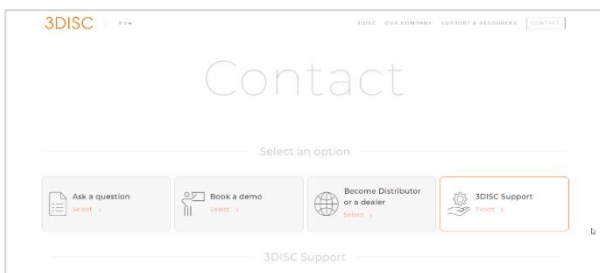
To contact **3DISC Online Support** via the **3DiscCloud™ Dashboard**:



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.



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.

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

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