

# USER GUIDE



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### **Chapter 1: Overview**

### **iTero Optical Impression Device**

The iTero Optical Impression Device is a mobile office unit that contains all of the necessary hardware and software components for performing case scanning. Once a case has been scanned and viewed, it may be uploaded to the Cadent Center for further processing.

### **Main Features**

- $\Rightarrow$  PC-based system
- $\Rightarrow$  LCD monitor with built-in speakers
- $\Rightarrow$  Optical scanner with flexible cable
- $\Rightarrow$  Integrated keyboard
- $\Rightarrow$  Wireless mouse
- $\Rightarrow$  Wireless foot pedals
- $\Rightarrow$  Four lockable wheels
- $\Rightarrow$  Two ventilation fans (inside grids)
- ⇒ Wireless internet connection
- $\Rightarrow$  Internal UPS

**NOTE:** For detailed hardware specifications, see the *Operation Manual*.

### **Booting the System**

To turn the system on/off, press the blue "POWER" button above the keyboard. For further operation details, refer to the *Operation Manual*.





### **About This User Guide**

This User Guide describes how to use the iTero Scanner application to scan cases, and how to use the Case Manager application to monitor case status. From within each application, you may press F1 to access context-sensitive help.

Refer to the *Operation Manual* for hardware specifications and for detailed descriptions regarding booting, shutdown, cart relocation, UPS usage, safety, disinfection, sleeve swapping and maintenance.

### Moving the Cart

Since the system is equipped with an internal UPS, the system may be left running during short moves within the office. Before relocating the cart, unplug the power cable from the wall and properly secure all cords and cables on the cart.

**NOTE:** The system will not allow scanning while operating on UPS backup power.

When fully charged, the internal UPS provides about 5 minutes of power. As soon as the cart reaches its destination, it should be plugged in immediately. If the system is left unplugged, warning messages begin to appear on the screen and the status of the internal UPS battery will be displayed. When the internal UPS battery is nearly empty, the system will automatically shut down in a safe manner.

For further details regarding the UPS and moving of the cart, refer to the Operation Manual.

### **iTero Scanner Sleeves**

The system uses disposable <u>white</u> plastic Scanner Sleeves (imaging shields) to ensure maximum infection control. A special <u>red</u> protective sleeve is used to protect the scanner head during shipping and between patient sessions.

- $\Rightarrow$  At the <u>start</u> of each scanning session, remove the red protective sleeve and attach a new white sleeve.
- ⇒ At the <u>end</u> of each scanning session, discard the dirty sleeve according to standard procedures. Then use disinfectant wipes to clean the scanner wand, scanner cradle, keyboard and mouse. Finally, attach the red protective sleeve for protection.

**WARNING:** For a detailed description of changing scanner sleeves between patients, refer to the *Operation Manual*.



### **Mouse & Foot Pedal Batteries**

The system notifies the user when batteries need to be replaced in the mouse or foot pedals. See the *Operation Manual* for battery specifications and for instructions on changing batteries.

### Entering the iTero Desktop

To enter the iTero desktop, the password is "cadent" (all lowercase).



### **Desktop Icons**

The following icons should appear on your desktop.

<b>رکم</b> iTero	The iTero Scanner application provides an intuitive user interface for performing digital scanning. The doctor is guided through the scanning sequence by means of visual, text and voice assistance. The foot pedals and mouse are used to respond to screen instructions and perform scanning.
Case Manager	The Case Manager works interactively with iTero Scanner and handles file communications between the doctor's office, partnered labs, and the Cadent Center. The Case Manager allows doctors to view the current status of all cases.
Cadent Support App	In general, the Cadent Support icon should not be used. If you contact Cadent Support for assistance, you may be requested to double-click this icon to enable the support engineer to view & control your system from a remote station.

### **Opening the iTero Scanner Application**

Double-click the iTero icon to open the iTero Scanner application.

You will be requested to Login:

Login									
New Logi	in System								
iTero, iOC & Case Manager are now authenticated by MyCadent.com. A MyCadent account ensures enhanced security and authorized access to patient scans. Scanners that are utilized by multiple doctors require a separate login for each doctor account.									
MyCadent account owners: Enter your existing login email and password in the provided fields.	User Name: Email: Password:	John Doe							
If you do not have a MyCadent account: 1. Click "Don't Have MyCadent Account"	Sign In Eorgot Your Password? Don't Have MyCader	n <u>t Account</u>							

### **Chapter 2: User Interface**

### **Getting Started Dialog**

When the iTero Scanner application is opened, the system checks for "unsent" cases on your local system. If such cases exist, the Getting Started dialog appears with a list of unsent cases. (Cases which have already been sent, may be opened using the Case Manager.)

Getting Started				$\otimes$
There are cases that ha If there is a problem, co	ven't been ntact Tech	sent. Support for assistan	ice.	New Case
Patient Name	Chart #	Creation Date	ID	
Smith,John		5/8/2011 3:04 PM		View
				Continue Scanning
				Delete

### Main Toolbar

The main toolbar of the iTero Scanner application contains the following icons.



**NOTE:** The system saves the case automatically on a regular basis and saves the case before closing it. In addition, you may use the **Save** command manually whenever desired.

### **View Control**

The View Control can be used to manipulate the 3D image in the graphic window.



### **Visibility Control**

The Visibility Control can be used to Show/Hide elements in the 3D model and to activate measurement and analysis tools.



### **Center-of-Rotation**

To move the center-of-rotation symbol to a different place on the 3D image, press Alt and then click somewhere on the image. The 3D image will then rotate around that point.

You can choose to hide or display the center-of-rotation symbol using the General options.



Options. General
General System Scanner Preferences Speech Language
Startup
✓ Restore window size
To oth ID Sustam
Ouadrant (UR8-LR8)
● ADA (#1-#32)
● FDI (1.8-4.8)
✓ View center of rotation
OK Cancel Defaults

### **Multilingual Support**

To change languages in the iTero Scanner application, use the Language Options. **NOTE:** The change will take affect only after restarting the application.



### Keyboard & Mouse Shortcuts

Functions	Cursor Icon	Sequence	Description
Zoom	Q	Shift + left-mouse	Zoom an area of the 3D image.
Pan	ŶĴŶ	Alt + Shift + left-mouse OR Mouse-wheel + right-mouse	Move 3D image within graphic window.
Rotate Freely	Ų	Alt + left-mouse OR Mouse-wheel	Rotate 3D image in any direction.
Swivel	‡ø	Mouse-wheel (at edges)	Move cursor close to left or right edge of graphic window, press mouse wheel, and move mouse <b>up/down</b> .
Swivel	Ø	Ctrl + Mouse-wheel	Press Ctrl key and mouse-wheel and move mouse in <b>circular</b> motion.
Rotate with Arrows		$\uparrow\downarrow\leftarrow\rightarrow$	Click in graphic window and then press arrow keys. Press up/down arrows to rotate vertically. Press left/right arrows to rotate horizontally. Hold down arrow for continuous rotation.
Move the Center-of-Rotation		Alt + click left-mouse OR Click mouse-wheel	To move the center-of-rotation symbol to a different spot on the 3D image.
Scan Explorer		Ctrl + E	Hide/display the Scan Explorer dialog.
Context-sensitive help		F1	Click in any dialog or window and then press the F1 key to display context-sensitive help.

### **Chapter 3: Treatment Information (Rx form)**

### **Opening a New Case**

To register a new patient, click on the "New" icon in the main toolbar. Or click on "New Case" in the Getting Started dialog.

### Treatment Information (the digital Rx form)

The "Treatment Information" window is the digital prescription form used by partnered labs to fabricate the requested restoration (eliminating the need for a paper form).

- $\Rightarrow$  Required fields are marked with an asterisk (\*).
- $\Rightarrow$  Click a tooth in the tooth diagram to select preparation and bridge types.
- $\Rightarrow$  The "Number of Scans" field shows the total number of scans required for the case (based on preparation and bridges selections).
- $\Rightarrow$  For more details, press F1 to open the help system.

Treatment Information			
Case * Patient First Name: John * Patient Last Name: Doe Chart #: * Case Type: RTM Dates * Due Date: 6/ Scanning Order * Scanning Order: Prep	2uadrant 💌 /2011 💌 /2011 16:02:45 aw First 👻 Arches First 👻	Dentist * Name: demo_dentist * License #: I_n_123 Signature: Ship To * Lab: demo_lab	
* Click a tooth to assign its type:			]
	88888		
WNN			
	V V V V V		
Same design for all teeth (copied from top line)		Shade System: Vita Lumin 🔽	
ID (FDI): * Material Type	* Preparation Design Buccal / Lingual	* Margin Design Shade Shade Buccal / Lingual Gingival * Body Incisal	Stumpt Shade
36: Crown Composite: Lab Preferer	Y Shoulder Y Shoulder M	Metal Porcelain Junction 🔽 🛛 A1 💌 A1 💌 A1	
Notes:			
Attachment: 🕕 🔀 💿	Scan Now Ca	ancel Scan Later	

### **Pre-Entering Patients**

You may pre-enter patients in the system in order to save time during the actual patient sessions. To pre-enter a patient, fill in the Rx and then click **Scan Later**. The patient name will then appear in the Getting Started dialog each time you open the iTero Scanner application.

### **On-Screen Keyboard (for Rx)**

Information may be entered into the Rx form using the built-in keyboard on your workstation. Alternatively, you may type using the virtual **On-Screen Keyboard**.



= (	Dn-S	icre	еел	i Ke	ybo	aro	d																				X
<u>F</u> ile	<u>K</u> eγ	/boa	ard	<u>S</u> et	ting:	5 I	<u>H</u> elp																				
esc		l	F1	F2	F:	3	F4		F5	F	6	F7	F	8		F9	F	10	F11	F12	psc	slk	brk				
•	1	Τ	2	3	4	Ī	5	6	Τ	7	8		9	0	١I	-	[ -	•	Ы	ksp	ins	hm	pup	nlk	7	-	-
ta	Ь	q	Ŀ	w	е	r		t I	y	L	١I	i		D	р	Γ	[	]	Т	Λ.	del	end	pdn	7	8	9	
lo	ock		a	s	d		f	g	Τ	h	i	Γ	k	I	Τ	;	Ŀ	Ι	е	nt				4	5	6	+
	shft		z	I	×	С	١	٠I	Ь	n	Ι	m		Ι		Ŀ	/		shf	t		1		1	2	3	
ctr	1	*	I	alt										ā	alt		7	E		etrl	+	L	→	(	)		ent

### **Digital Signature**

Each doctor may enter a digital signature in the system. Once entered, the digital signature will be displayed in the **Signature** field of the Rx form at the doctor's office and at any partnered lab.

- $\Rightarrow$  For multi-user systems where each doctor enters the system with a unique password, each doctor is required to scan in his/her own signature.
- ⇒ Signatures are stored in an encrypted format that cannot be used outside of the iTero software (protecting users from unauthorized use).
- ⇒ To create your digital signature, open the Preferences options and click "Print Instructions". The instructions sheet includes a calibration box and a signature box.
- $\Rightarrow$  It is essential to use an **ORIGINAL PRINTOUT** of the "Signature Scanning Instructions". Do not use a copy or faxed version of the sheet.

Options. Preferences	
General System Scanner Preferences Speech Language	
Case Type	] ,
Scanning Order	
· · · · · · · · · · · · · · · · · · ·	
License	
Hole Filling Mode	
Arches Normal 🗸	
Preps Colored ~	
Signature	
Print and sign instruction sheet, then start scan.	
Print Instructions	
Scan Signature Delete Signature	
Dr. John Smith	
Clear License	
OK Cancel Defaults	



### **Chapter 4: Scan Tool**

The Scan Tool consists of the following elements:



#### Guidance

For each individual scan, the system provides three types of instructions:

- $\Rightarrow$  Text command (Guidance, above the Viewfinder)
- $\Rightarrow$  Visual command (Guidance, in the top right corner of the 3D preview)
- $\Rightarrow$  Voice command (thru built-in speakers)

#### Viewfinder

The Viewfinder helps you to position the scanner head correctly.

- $\Rightarrow$  Use the crosshairs to align the scanner on the tooth indicated by the **Guidance**.
- $\Rightarrow$  The entire area displayed within the **Viewfinder** will be scanned.
- ⇒ The Viewfinder is for positioning purposes only. In some instances, the target area may appear slightly out of focus and you should attempt to improve the focus. Even if the focus remains poor in the Viewfinder, the actual scan resolution will be fine.

#### Preview

After performing a scan in the **Viewfinder**, the results are displayed in the **Preview** for immediate review. Press the **Menu** pedal and select **Undo** if you wish to retake the scan for any reason.

### **Performing a Scan**

In general, the scanning process is controlled using the two foot pedals. You can also use the mouse to click commands in the Pedals dialog.

- ⇒ To take a scan, first stabilize the image. Then press and release the right foot pedal to Scan. The right pedal in the pedal dialog will become pressed to indicate that a scan has been initiated. Once the image becomes steady, an audible beep indicates that the scan is in progress.
- $\Rightarrow$  If the patient or doctor moves during the scan, the system may request a rescan.
- ⇒ You may also decide on your own (for any reason) that you wish to redo the scan. Press the left pedal (Menu) to open the menu. Pressing the left pedal again moved the menu selection. After the menu selection is on Undo, press the right pedal (OK).



Pedals Dialog – ready to scan:



Pedals Dialog – menu open:



### **Scanning Tips & Techniques**

#### Scanning Basics

- $\Rightarrow$  Each scan should have crosshairs following the natural shape of the arch (tangential).
- $\Rightarrow$  Buccal and lingual scans should include occlusal information (scan at 45 degree angle).
- $\Rightarrow$  We recommend the use of cheek retractors to avoid excessive tissue from being scanned (especially for scanning anterior teeth).

#### Slow Scanner Response after Pressing Pedals

- $\Rightarrow$  Ensure that an overhead light is not shining directly on the area being scanned.
- $\Rightarrow$  Verify that patient and scanner are not moving during scan.
- $\Rightarrow$  Check that saliva is not blocking the field of vision. Dry the area in question.
- $\Rightarrow$  Ensure that interference is not occurring (tissue, lips, tongue, etc.)
- $\Rightarrow$  Check that patient is holding tongue still.
- $\Rightarrow$  If necessary, ask the patient to position tongue on the opposite side of the mouth.

#### Viewfinder Displays Blurred Image

- $\Rightarrow$  Try cleaning the external scanner sleeve window with clean cotton or paper.
- $\Rightarrow$  If cleaning does not help, try replacing the scanner sleeve with a new sleeve.
- $\Rightarrow$  If the new sleeve doesn't help, contact Cadent support for assistance.

#### **Jaw Relation Scans**

- $\Rightarrow$  Center reference line should follow the occlusal plane.
- $\Rightarrow$  The jaw relation scan should contain teeth data from both jaws, for a better registration.

### **Scanning Samples**

Occlusal View (prep)



#### Buccal View (prep)



Lingual View (prep)



#### Buccal View (non-prep)



Lingual View (non-prep)







### **Opposite Jaw First Finished**

If user chose scanning order of "Opposite Jaw First", at the end of scanning the opposite jaw, the system announces that "Segment Finished":



<u></u>	2
Add Scans	View
ridd Coaris	, ien

Press "View" to pause the scanning and go to the View Tool to review the scanned jaw. In the View Tool, press the "Scan" pedal to return to the Scanning Tool and scan the prep jaw.

Press "Add Scans" to add scans to the opposite jaw.

### **Scanning Finished**

At the end of the scanning process, the system announces that "Scanning Finished":



Press "View" to go to the View Tool to review the scanned jaw. Press "Add Scans" to add scans to the last scanned jaw.

### Chapter 5: View Tool (for Case Review)

### Merge of Scan Images

After the scanning is complete, the system merges all scans into a single graphic image and displays the resulting image for review. Progress bars are displayed during the merge process.

Cleaning and merging	scans	
Processing tooth ADA 2	)	
		35 %
	Stop	

### **Case Review with Patient Present**

It is important to review the case with the patient still present, since rescanning may be required. Be sure to check that proper retraction was obtained for a clear margin and that the tooth reduction was adequate.

### **Checking Occlusal Clearance**

Use the Show command in the Analyze tab to show/hide occlusal clearance colors along with the Clearance Legend (showing mm distances). If you perform further reduction on the preparation tooth, you will need to do rescanning afterwards.



### Rescanning

To perform rescanning, click the "Rescan..." command in the Scan tab.

Choose the desired rescan area(s) and press "Rescan".

The system will automatically begin the rescanning sequence. When complete, the system indicates that the "Scanning is Done" and the updated scans are remerged for final review in the View Tool.

Rescan
Select segments to rescan. All scans in selected (and dependant) segments will be deleted.
Lower Left Arch
Upper Left Arch
ADA 19
Rescan Cancel

### **Adding Scans**

After reviewing the case in the View Tool, user may want to add scans to the model – to capture missing areas or other additional data.

To add scans, click the "Add Scans..." command in the Scan tab

Choose the area in which scans should be added and press "Add Scans".

The system will automatically go to scanning mode and continue from a segment according to user selection. When complete, user should move back to the View Tool to review the new merged model.

Add Scans	
Start from:	
Upper Left Arch Lower Left Arch Bite ADA 19	
Scan Cancel	

### **Chapter 6: Sending Case**

Once you have finished scanning and reviewing the case, click on the "Send" icon in the main toolbar to send the case to the Cadent Center.

The iTero Scanner application will automatically close, and the file transfer process will be handled by the Case Manager application. First the file data will be processed, and then the case will be sent to the Cadent Center. To confirm that the file has been sent (or is queued for sending), open the Case Manager.

### Chapter 7: Case Manager

### **Overview of Case Manager**

The Case Manager application works interactively with the main iTero Scanner application to provide the following capabilities.

- $\Rightarrow$  Displays case essentials (case ID, patient, dentist, lab, etc.)
- $\Rightarrow$  Shows current status of all cases.
- $\Rightarrow$  Opens cases in the iTero Scanner application (for viewing & editing).
- $\Rightarrow$  Uploads new cases from your office to the Cadent Center.
- $\Rightarrow$  Downloads the latest version of a case from the Cadent Center to your office for viewing purposes. (OPTIONAL)

### **Entering Case Manager**

Double-click the Case Manager icon to start the application.

The Case Manager application contains two tables, as described below. Your selections in the top three fields (Case ID, Patient Name, Lab Name) serve as a filter for determining which cases are displayed in the two tables. Click **Clear** to empty the three fields and display all cases.



S Case Manager								
File Tools Help								
: 🗾 🏸								
Case ID	Patient Name	Lab Name	- Clear					
Cases to Work On:								
Case ID	Patient Name	Due Date	State Time (Local)	Dentist Name	Lab Name	Local State		
8294	Jones, Mary	2009-09-02	2009-08-19 18:02:28	Dr. Dds1QA, Dds1QA	Lab1	Waiting for Send		
	Brooks,Patty	2009-09-10	2009-08-19 17:01:52	Dr. Dds1QA, Dds1QA	Lab1	New File		
Cases:	le contra		0.01					
Case ID 9290	Patient Name SpacSleaveTwo Blackholatest		Due Date 2009-09-02		State Cadent Modeling	<b>^</b>		
8281	SpecSleeveThree Blackholetest		2009-09-02		Cadent Modeling			
8282	SpecSleeveFour Blackholetest		2003-03-02		Cadent Modeling			
8283	SpecSleeveFive Blackholetest		2009-09-02		Cadent Modeling			
8284	SpecSleeveSix.Blackholetest		2009-09-02		Cadent Modeling			
8285	SpecSleeveSeven,Blackholetest		2009-09-02		Cadent Modeling			
8286	SpecSleeveEight,Blackholetest		2009-09-02		Cadent Modeling			
8287	SpecSleeveNine,Blackholetest		2009-09-02		Cadent Modeling			
8288	SpecSleeveTen,Blackholetest		2009-09-02		Cadent Modeling			
8289	SpecSleeveA,Blackholetest		2009-09-02		Cadent Modeling			
8290	SpecSleeveB,Blackholetest		2009-09-02		Cadent Modeling			
8291	SpecSleeveC,Blackholetest		2009-09-02		Cadent Modeling			
8292	SpecSleeveD_Blackholetest		2009-09-02		Cadent Modeling			
8293	SpecSleeveE,Blackholetest		2009-09-02		Cadent Modeling			
8294	Jones,Mary		2009-09-02					
	Brooks,Patty		2009-09-10					
						•		
Sending\Receiving There are 3 cases to work on.								

### Cases to Work On (top table)

The top table lists cases that have not yet been sent to the Cadent Center. These cases are also displayed within the Getting Started dialog when opening the iTero Scanner application. Double-click a case to open it. Or right-click on a case and select the desired action. The case are color-coded as follows.

#### **Blue Cases**

#### New Case (not yet sent)

Case information has been entered but case has not yet been "sent" to the Cadent Center (the case may or may not be scanned.) **These cases require action by the user.** 

#### **Red Cases**

#### Waiting for Send

Case has been scanned and sent. The case file is queued for upload transmission in the next communication session with the Cadent Center. No action is required by the user.

### All Cases (bottom table)

The bottom table displays all cases from the past sixty days.

- $\Rightarrow$  This list includes all cases that appear in the top table (colored **blue** and **red**).
- ⇒ This list also shows cases that have been sent (colored **black bold**). Viewing of these cases is not required. If you do wish to view a case, simply double-click the case and it will be opened for viewing. Once viewed, the case remains black (but not bold).

### **Refresh Case Manager Display (F5)**

To refresh the table display, use the "Refresh" command in the Tools Menu (or press F5).

In general, the Case Manager tables are updated automatically and the Refresh command is not needed. However, there is one particular situation where the Refresh command can be of assistance. After sending out a number of cases, it may take a few minutes for the communication session to complete. During this time, the Case Manager will not update the display until all cases are processed. However, if you issue the Refresh command, the Case Manager tables will be updated immediately based on the current state of communications.

For example, if six cases were sent but only two were actually transferred at this point in time, pressing Refresh would update the tables accordingly.

### **Files Remain Red in Tables**

If files remain red in the Case Manager tables for an extended period of time, there may be a problem.

- ⇒ Ensure that the Internet is operational in your office. If not, you may need to contact your Internet service provider or local technician
- $\Rightarrow$  If the Internet is accessible in the office but not on the cart, contact Cadent Support.
- $\Rightarrow$  If the Internet is accessible on the cart but cases still remain red, try pressing Send/Receive button in the Case Manager.

## USER GUIDE



creating the perfect byte.

