



IS 3800

User and Installation Guide

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We recommend that you thoroughly familiarize yourself with this Guide in order to make the most effective use of your system.



WARNING: We recommend that you consult the "IS 3800 Family Safety, Regulatory, and Technical Specifications User Guide" before using the IS 3800 systems.

The IS 3800 Family comprises:

- IS 3800W
- IS 3800

All trademarks and registered trademarks are the property of their respective holders.

The IS 3800W and IS 3800 are intended for professional use only.

US Federal law restricts this device to sale by or on the order of a dentist.

Manual Name: *IS* 3800 Family User and Installation Guide Part Number: TA3975 Revision Number: **D** Print Date: **2023** - **09**

The IS 3800W and IS 3800 comply with Medical Device Regulation (EU) 2017/745 and Medical Devices Regulations 2002 (SI618) as subsequently amended by the EU Exit Regulations of 2019 (SI 791) and 2020 (SI 1478).

CE UK

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Conventions in This Guide

Conventions in This Guide

The following special messages emphasize information or indicate potential risks to personnel or equipment:



1



The IS 3800 Family comprises:

- IS 3800W
- IS 3800

The IS 3800 Family is designed to acquire 3D still images in the following modes:

- Lower jaw
- Upper jaw
- Buccal bite registration

IS 3800W Overview





1 Reusable tips

There are three types of tips: Normal, facing downward; Side, facing left; and Posterior, facing downward. **Note:** The posterior tip allows for more comfortable scanning in hard-to-reach areas. The posterior tip is designed for quadrant scanning only and should not be used to scan a complete arch.

See the IS 3800 Family Safety, Regulatory, and Technical Specifications User Guide for information on cleaning and sterilizing the tips.

- 2 Mode indicators
 . Lower jaw scan mode
 . Upper jaw scan mode
 . Buccal bite registration mode
- 3 Mode button
- 4 Power button
- Press the button to switch between different modes.
- Press three seconds to power ON.
- Press three seconds to power OFF.

Power indicator LED:



IS 3800W Scanner General Care

Figure 2 IS 3800W Front Protective Cover





Important: Use the front protective cover when the IS 3800W is not in use.

Figure 3 IS 3800W Posterior Protective Cover





Important: Use the posterior protective cover when the battery is removed.

IS 3800W Scanner Storage

When you are not using the scanner, place it in the charging station either vertically or horizontally to store it.

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Figure 4 IS 3800W Placed Vertically in Charging Station (With Battery Only)
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Figure 5 IS 3800W Placed Horizontally on Charging Station (With Tip Pointing Up)



IS 3800W Handpiece Charging Station Overview

The handpiece charging station is designed to hold the scanner safely and charge it at the same time. Place the scanner in the charging station when you are not using it.

The handpiece charging station has a 12V 2.5A input port and a 5V output port for the backup power cable.

When the scanner is inserted in the charging station, the indicator light of the charging station:

- Blinks in ORANGE when the battery is near empty.
- Blinks in BLUE when the battery is half full.
- Displays a CONSTANT BLUE when the battery is fully charged.
- Displays a CONSTANT ORANGE when a charging error occurs.

The indicator on the scanner is turned off when the scanner is in the charging station.

Figure 6 Handpiece Charging Station



Figure 7 Handpiece Charging Station with Backup Power Cable



Figure 8 IS 3800W in Handpiece Charging Station



Figure 9 Incorrect Use of Charging Station





Important: DO NOT insert the bare battery in the handpiece charging station.

IS 3800W Battery Charging Station (Optional) Overview

The IS 3800W battery charging station (optional) can charge up to two batteries at the same time.

The indicator on the battery charging station:

- Blinks in ORANGE when the battery is near empty.
- Blinks in BLUE when the battery is half full.
- Displays a CONSTANT BLUE when the battery is fully charged.





Figure 11 Batteries in Battery Charging Station



IS 3800 Overview





Reusable tips
 There are three types of tips: Normal, facing downward; Side, facing left; and Posterior, facing downward. Note: The posterior tip allows for more comfortable scanning in hard-to-reach areas. The posterior tip is designed for quadrant scanning only and should not be used to scan a complete arch. See the IS 3800 Family Safety, Regulatory, and Technical Specifications User Guide for information on cleaning and sterilizing the tips.
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- 4 Power button
- Press three seconds to power ON.
- Press three seconds to power OFF.

Power indicator LED:

		Ċ	The scanner is active.
		SLOW	When you turn the scanner off, the indicator blinks in orange before the system shutdown.
			Power is OFF.
5	Rear cover	Contains a USB Type-C port and a socket to which the lock is secured.	
6	Detachable cable	One end of the cable lock, and the other en computer.	is plugged into the scanner and secured with the id is plugged into a USB Type-C port on the

IS 3800 Scanner General Care

Figure 13 IS 3800 Front Protective Cover





Important: Use the front protective cover when the IS 3800 is not in use.

IS 3800 Holder Overview

The holder can be used as a desktop or a wall mount holder. Place the scanner in the holder when you are not using it.

Figure 14 IS 3800 in Desktop Holder



Figure 15 IS 3800 in Wall Mount Holder





IS 3800 Detachable Cable Storage

To avoid damaging the detachable cable of the scanner, you should loosely coil the cable and avoid creating any sharp kinks, especially in the area where the cable connects to the scanner.

Figure 16 Correct IS 3800 Scanner Cable Storage



Do not wrap the cable around the handle of the scanner or create any sharp bends in the cable.

Figure 17 Incorrect IS 3800 Scanner Cable Storage





Note: To extend the life of the Type-C connector inside the scanner, it is recommended that you **do not** unplug the detachable cable for storage after each use.

IS 3800 Family Shade Calibration Unit Overview

After 50 hours of scanning (approximately 13 days), use the shade calibration unit to recalibrate the scanner.

Figure 18 Shade Calibration Unit



Follow these recommendations:

- Keep the cap on the calibration unit until you are ready to use it.
- Always install a cleaned and sterilized tip on the scanner before attaching the shade calibration unit.
 - Attach the shade calibration unit to the normal tip using the Normal opening.
 - Attach the shade calibration unit to the side tip using the Side opening.
 - Push the shade calibration unit to the end when attaching to the tip.

Note: The posterior tip cannot be used for Shade Matching.

- Do not touch the gray card in the shade calibration unit or expose it to liquids.
- Store the calibration unit away from light, heat, and moisture.
- Order a new shade calibration unit if the gray card quality check fails when performing a calibration or if the expiration date on the shade calibration unit is approaching.

See the IS ScanFlow User Guide for more information.



Setting Up the IS 3800W Scanner

To set up the IS 3800W scanner, follow these steps:

- 1 Request the **IS ScanFlow** software from www.dexis.com/en-us/download-center
- 2 Click the link in the email sent to you, and double-click the **InstallationWizard.iso** file to extract the files.
- 3 Double-click autorun.exe. A license agreement window is displayed.
- 4 Acknowledge the license agreement. The System Check window is displayed.
- 5 When the System Check finishes, click . The **Prerequisites** window is displayed.
- 6 When the Prerequisites check finishes, click . The **IS Scan Flow Maintenance Toolkit** window is displayed, and the installation begins.
- 7 When the installation has finished, the **Tutorials** window is displayed. Click on the video for the

type of scanner you are using to view a setup video. When finished, click . The **Finish** window is displayed.

- 8 Click Exit.
- 9 Firmly slide one of the tips onto the end of the scanner. Ensure that the indentation on the base of the tip aligns with the raised notch on the top of the scanner.





Important: Do not cover the air inlet of the battery or backup power cable; otherwise, the system will overheat.

10 Insert the battery into the base of the scanner, and ensure that the contact points of the power connector are aligned with the battery. Gently push until the battery clicks into place. Insert the DC power supply into the jack on the charging station, and insert the power adapter into an outlet. Place the scanner in the charging base.



Important: You must charge each battery before using it for the first time. The battery comes from the factory with approximately 30% of its full capacity.

When using the backup power cable, mount the backup power cable onto the scanner, and then insert the other end of the backup power cable into the output port of the charging station.



11 Press the power button three seconds to power on the scanner. Ensure the power indicator turns blue.



Setting Up the WiFi Adapter

To set up the WiFi adapter, follow these steps:

- 1 Connect the WiFi adapter to the USB port directly or through the dock, depending on the space around the USB port. The installation wizard window is displayed.
- 2 Follow the on-screen instructions to connect the WiFi adapter to your network.

Charging the Batteries in the Battery Charging Station (Optional)

The battery in the handpiece is charged each time you place it in the handpiece charging station. If you have the optional battery charging station, you can charge additional batteries while you use the handpiece.

To charge the batteries, follow these steps:

- 1 Insert the DC power supply into the jack on the battery charging station, and insert the power adapter into an outlet.
- 2 Remove the battery from the handpiece by grasping the battery at the base, depressing the button at the bottom of the battery, and gently sliding the battery out of the handpiece.
- ³ Place a battery in one of the openings of the battery charging station, making sure that the charging contact on the base of the battery is aligned with the contact on the bottom of the charging station. You can charge two batteries at once.



The LED light on the battery charging station:

- Blinks in ORANGE when the battery is near empty.
- Blinks in BLUE when the battery is half full.
- Displays a CONSTANT BLUE when the battery is fully charged.

Preparing the IS 3800W Scanner

The reusable tip attaches to the body of the scanner and provides a sanitary shield for the patient. Always disinfect the body of the scanner, and clean and sterilize the tip after each use.



Important: Scanner tips received from the manufacturer are NOT sterile. You must sterilize the tips before the first use.



Important: If you limit the exposure time at 134°C to not more than 4 minutes, you can autoclave the tip up to 110 cycles. See the IS 3800 Family Safety, Regulatory, and Technical Specifications User Guide for more information.

To prepare the scanner, follow these steps:

- 1 Make sure the lens window at the base of the scanner is clean by wiping it with a moist, lint-free cloth or lens tissue.
- 2 Slide the tip onto the scanner as illustrated, with the lens facing downward (A) or to the side, facing left (B). Ensure that the indentation on the base of the tip aligns with the raised notch on the top of the scanner.





3 Press the power button for three seconds to power on the scanner.



4 On the IS ScanFlow interface, select the Upper Jaw acquisition mode.



OR

On the scanner, press the mode button for one second to select the acquisition mode. The mode indicator LED turns blue.



5 Press the power button for one second to start the projection.

Setting Up the IS 3800 Scanner

To set up the **IS** 3800 scanner, follow these steps:

- 1 Request the **IS ScanFlow** software from www.dexis.com/en-us/download-center
- 2 Click the link in the email sent to you, and double-click the **InstallationWizard.iso** file to extract the files.
- 3 Double-click autorun.exe. A license agreement window is displayed.
- 4 Acknowledge the license agreement. The System Check window is displayed.
- 5 When the System Check finishes, click . The **Prerequisites** window is displayed.
- 6 When the Prerequisites check finishes, click . The **IS ScanFlow Maintenance Toolkit** window is displayed, and the installation begins.
- 7 When the installation has finished, the Tutorials window is displayed. Click on the video for the

type of scanner you are using to view a setup video. When finished, click . The **Finish** window is displayed.

- 8 Click Exit.
- 9 Firmly slide one of the tips onto the end of the scanner. Ensure that the indentation on the base of the tip aligns with the raised notch on the top of the scanner.



10 Insert the end of the detachable cable with the plastic lock into the handpiece. Ensure that the icons on the lock and the scanner's rear cover are aligned.



- 11 Rotate the plastic lock clockwise until it clicks to lock the cable.
- 12 Insert the other end of the detachable cable into the USB Type-C port of your computer.



Important: DO NOT use a USB Type-A to USB Type-C converter on a PC which is not provided by DEXIS . A USB Type-A port may not supply enough current to power the IS 3800.

13 Press the power button three seconds to power on the scanner. Ensure the power indicator turns blue.



Using the Holder

The holder can function as a desktop holder or a wall mount holder.

Installing the Desktop Holder

To use the holder as a desktop holder, follow these steps:

- 1 Select a clean surface area that you can access easily.
- 2 Clean the surface on which you are going to fasten the holder.
- 3 Attach the adhesive tape to the bottom of the holder (A).
- 4 Remove the adhesive tape protection (B).
- 5 Place the taped side of the holder on the clean surface (C) and press firmly several times for correct adherence. The maximum adherence is obtained after two hours.



Important: You must avoid all stress on the holder during the first two hours.



Important: Adhesive tape can lose its adherence capability due to environmental and other factors. Check the adherence regularly to ensure that it is secure.



Important: Dental Imaging Technologies Corporationis not responsible for accidents or damage involving the scanner falling due to loosening of the adhesive tape.

Installing the Wall Mount Holder

To use the holder as a wall mount holder, follow these steps:

- 1 Select an area that you can access easily.
- 2 Insert screws through the appropriate holes in the holder to affix it to a solid surface.





Important: If the holder is not properly installed, there is a risk that the holder can fall off the wall, resulting in damage to the scanner.

Preparing the IS 3800 Scanner

The reusable tip attaches to the body of the scanner and provides a sanitary shield for the patient. Always disinfect the body of the scanner, and clean and sterilize the tip after each use.



Important: Scanner tips received from the manufacturer are NOT sterile. You must sterilize the tips before the first use.



Important: If you limit the exposure time at 134°C to not more than 4 minutes, you can autoclave the tip up to 110 cycles. See the **IS** 3800 Family Safety, Regulatory, and Technical Specifications User Guide for more information.

To prepare the scanner, follow these steps:

- 1 Make sure the lens window at the base of the scanner is clean by wiping it with a moist, lint-free cloth or lens tissue.
- 2 Slide the tip onto the scanner as illustrated, with the lens facing downward (A) or to the side, facing left (B). Ensure that the indentation on the base of the tip aligns with the raised notch on the top of the scanner.





Important: Use the posterior tip in hard-to-reach areas and for quadrant scanning only. Use the normal tip or the side-facing tip when scanning a full arch. 3 Press the power button for three seconds to power on the scanner.



4 On the IS ScanFlow interface, select the Upper Jaw acquisition mode.



OR

On the scanner, press the mode button for one second to select the acquisition mode. The mode indicator LED turns blue.



5 Press the power button for one second to start the projection.



Cleaning, Disinfecting, and Sterilizing

You must clean, disinfect, and sterilize the scanner and accessories regularly.

If you limit the holding time at 134°C to not more than 4 minutes, you can autoclave the tip up to 110 cycles. See the **IS 3800 Family Safety, Regulatory, and Technical Specifications User Guide** for more information.



Important: For information on cleaning, disinfecting, and sterilizing, see the IS 3800 Family Safety, Regulatory, and Technical Specifications User Guide.

IS 3800 Family Troubleshooting Instructions

Problem Description	Action	
Precision degradation is observed, or images are not well-stitched during acquisition.	Ensure that the lens window at the base of the scanner is clean by wiping it with a moist, lint-free cloth or lens tissue. Use a lens tissue or lint-free cloth to remove any dust or water stains from the mirror in the tip. Make sure the tip is firmly installed and there are no dark edges on the live video.	
The tip is installed, but not detected. No live video is displayed, and the Scanner Tip Loose icon is displayed at the lower-right of the IS ScanFlow interface.	Ensure that you attach the tip to the scanner firmly and in the correct direction.	
The Overheating icon is displayed at the lower-right of the IS ScanFlow interface.	Place the scanner in the charging station for 5 to 10 minutes. The scanner will become inactive and cool down.	
Hardware error code ERR-00030AXX from the IS ScanFlow interface.	A component might be failing. Contact your local service provider for assistance.	



Manufacturer's Address



Dental Imaging Technologies Corporation 450 Commerce Drive Quakertown, PA USA 18951

Authorized Representatives

Authorized Representative in the European Community

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PaloDEx Group Oy Nahkelantie 160 04300 Tuusula, FINLAND

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List of Importers for European Union According to the MDR 2017/745

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For more information, visit: dexis.com