

DC-Air™ Set Up Guide

Introduction

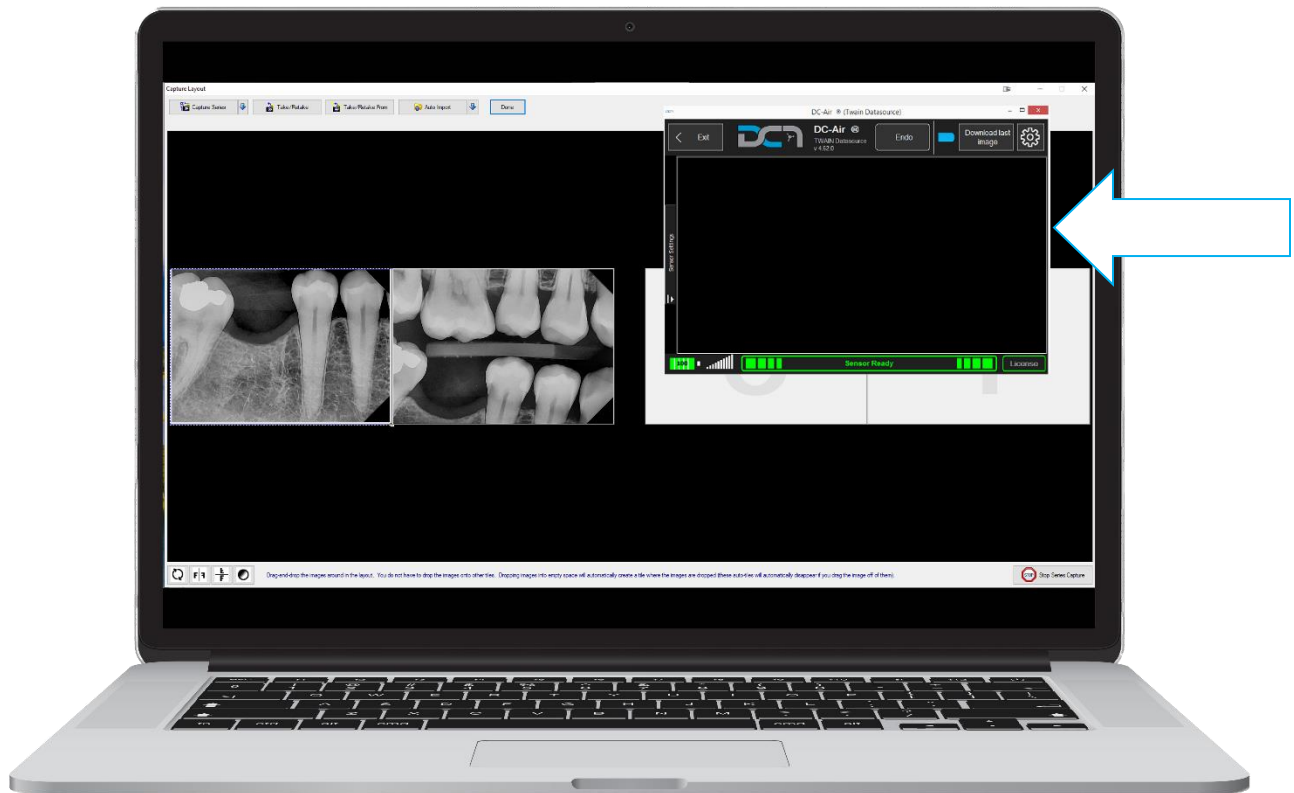
The DC-Air™ *TWAIN* Software is required to use and capture intraoral x-ray images.

It will interface with the existing Image Management Software (IMS). For some Image Management Software, additional modules or components may be required to allow the Image Management Software to interface with TWAIN applications. Please ensure your IMS is configured to interface with TWAIN applications.

Expanded instructions for use of the TWAIN interface can be found at:

<https://www.ftgimaging.com/support>

In this guide we will discuss all steps for integrating DC-Air™ for use on the acquisition PC (PC not included).



Instructions to Follow

- Verify Computer Requirements
- Assembly of the DC-Air™ Docking Station
- Placement of the DC-Air™ Docking Station
- Install DC-Air™ *TWAIN* Software
 - Download at <https://www.ftgimaging.com/support>
- Opening the software for the first time & verify settings
- Review Training Video(s) on Use
- Troubleshooting Guide

Computer Requirements

The required client PC specifications should meet or exceed:

- Microsoft Windows 10 Professional (32-bit or 64-bit)
- Intel i5 processor, 6th Generation or newer
- 4 GB of RAM
- 100 GB hard drive space
- 1 (one) USB 2.0 ports.
- An active Internet connection
- A monitor display resolution of 1920x1080 pixels 24bit RGB Full High Definition.
- Image Management database software
 - The respective Office software must be installed to be able to bridge via *TWAIN* with

Assembly of the DC-Air™ Docking Station

Locate the DC-Air™ Docking Station. If not done so already, plug in the USB-C connector on the backside, and screw in the antenna firmly. Then plug in the DC-Air™ Docking Station into the computer. It is recommended to plug in to the back of the computer similar to a mouse/keyboard. Using the “Set it, and forget it.” concept. If plugged into the front of the PC, it is more likely considered to be accidentally unplugged with other devices.

[Important] Each DC-Air™ Docking Station should not move around and stay with its respective computer. Shuffling them between different computers can cause software connection issues



The DC-Air™ Docking Station will flash blue two or three times before going dark. When a DC-Air™ Wireless Sensor is docked, it will then start to **pulse blue** indicating a charging status.

[Note] If a DC-Air™ Wireless Sensor is placed onto the DC-Air™ Docking Station before getting plugged into the computer, it will not start to **pulse** until the sensor is removed and then placed back on.



[Recommended] The DC-Air™ Wireless Sensor should be docked for a continuous 1-hour to allow charging before first use.

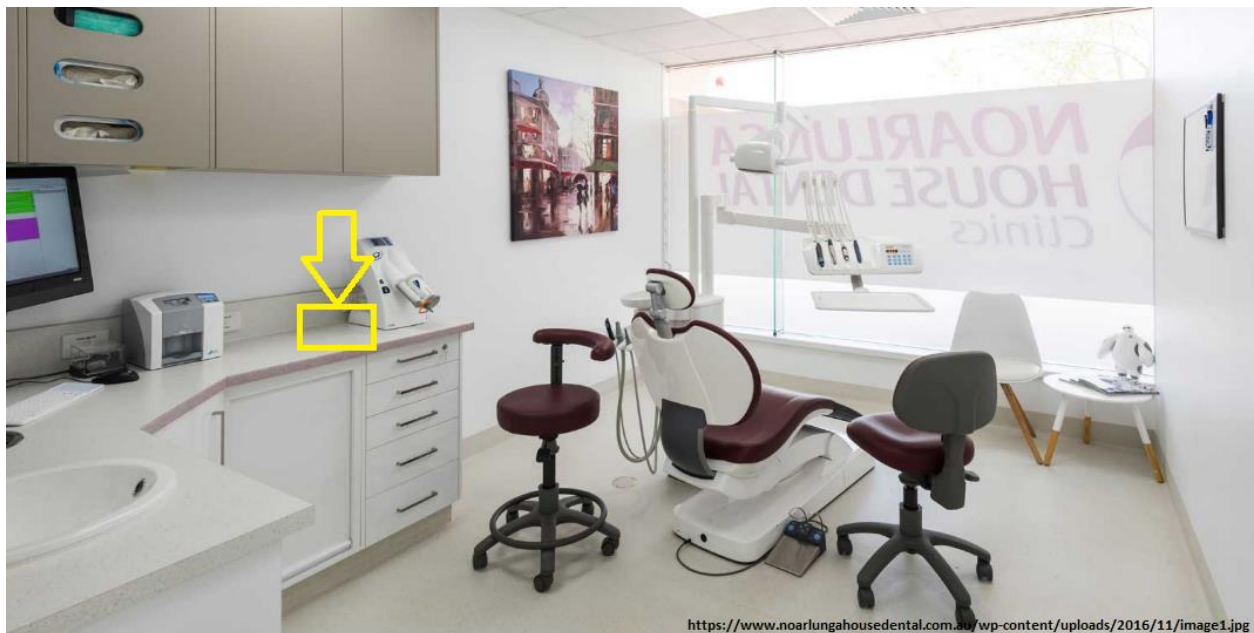
Placement of the DC-Air™ Docking Station

The signal strength between the DC-Air™ Wireless Sensor and the DC-Air™ Docking Station uses Bluetooth. It does not use the Wi-Fi network; however, it does use the same frequency (2.4 GHz). There are variables that can be controlled (or avoided) to reduce interference and help maintain the signal strength.

The Docking station should be placed on the countertop (if at all possible) in front of or to the side of the patient chair within 6-9 feet of the patient's head. The strength of the connection will be taxed if the Docking station is directly behind the patient's head. If behind is the only position available, entertain placement on the outmost part of the countertop furthest from directly behind the patient's head.

Having other wireless devices can also deter the signal. In the event there are other devices (wireless keyboards, mouse, etc.), it is encouraged that the respective receivers are placed on the opposite side of the desk whenever possible.

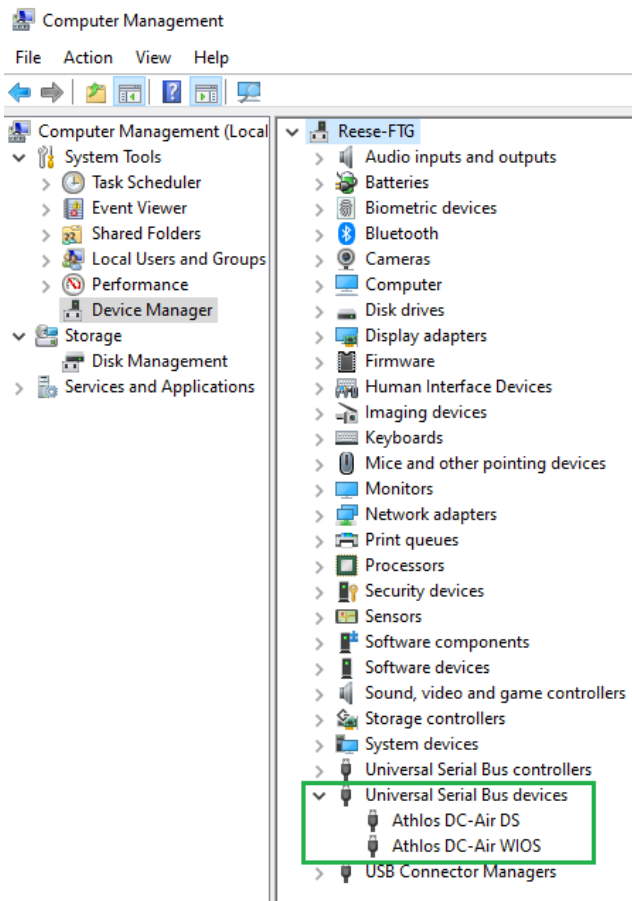
The docking station should also not be placed next to a sink or where it could get splashed.



Install DC-Air™ TWAIN Software

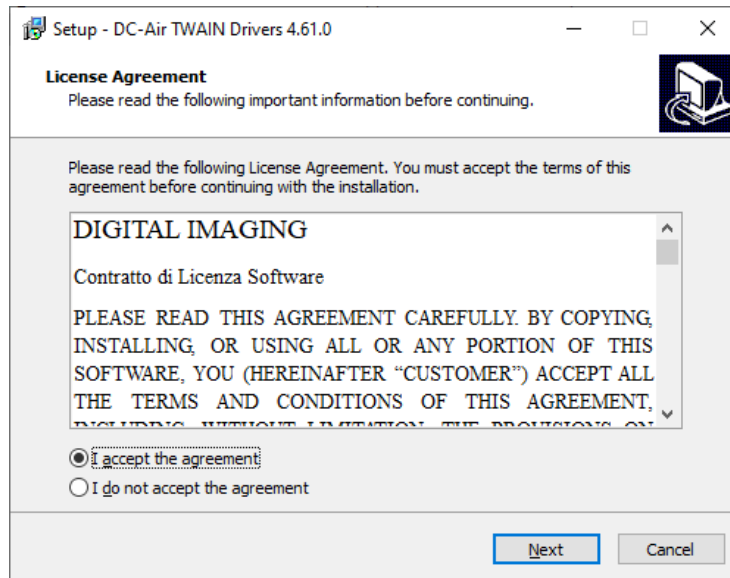
The DC-Air™ Docking Station, and the DC-Air™ Wireless Sensor (when docked) can both be seen in the Local Device Manger. It is not required to have the DC-Air™ Docking Station plugged in before the software installation, but it is required to open the software. The screenshot below is how the devices will show up in the device manager after the software & device drivers are installed. If the devices are not seen in the Device Manger list, follow the Troubleshooting Guide at the end of this document.

Report any problems to FTG's support team by phone (855) 664-1953 or by emailing support@ftgimaging.com

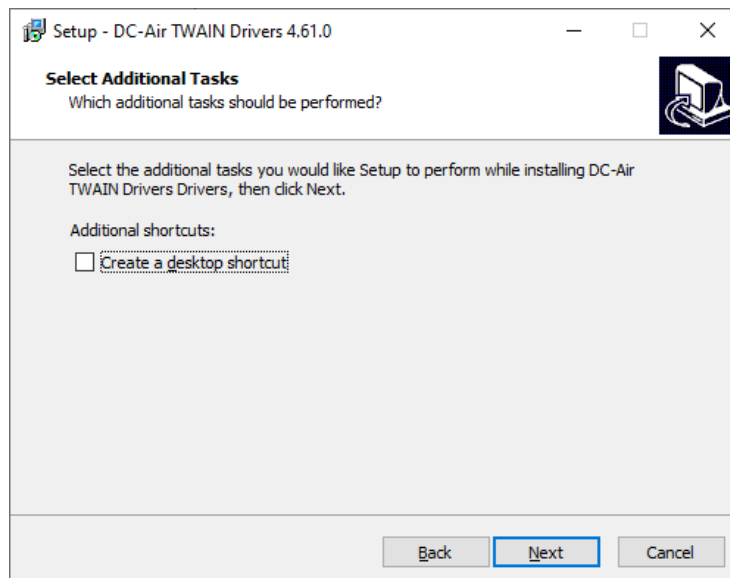


Next run the Application Installation for the *DC-Air™ TWAIN*.

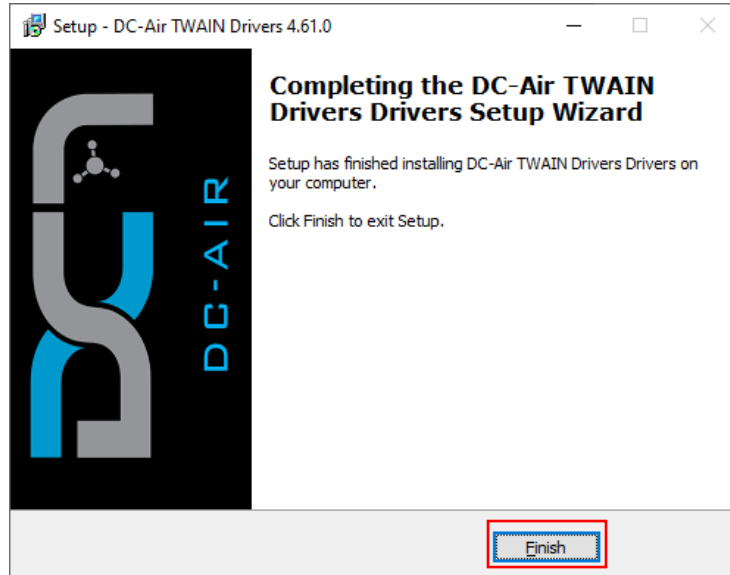
After reading the License Agreement, click the accept radio button, and then click Next



Desktop shortcuts are not recommended and may cause confusion on workflow. Click Next.



Allow the software to finish installing the files, and then click Finish.



Advanced Tips:

Directories to exclude from Anti-Virus protection software:

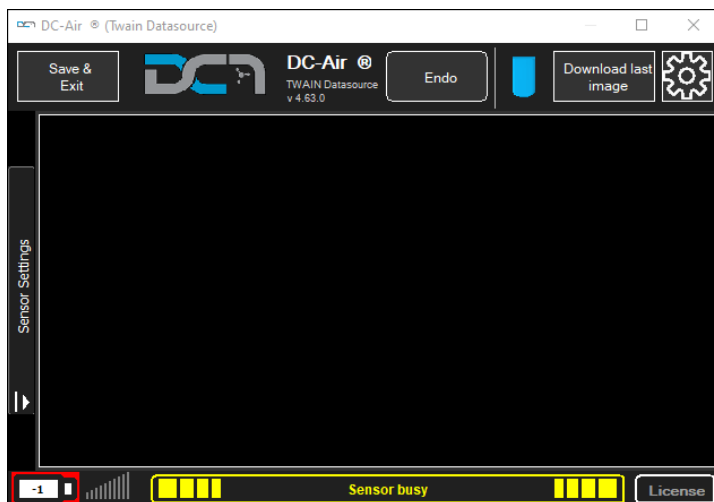
C:\ProgramData\DC-Air\

[Note] To bridge the DC-Air™ *TWAIN* with your Image Management Software, refer to their directions on how to complete this task. As an alternative source, instructions and tutorial videos might be available under the FTG Imaging Support website.

<https://www.ftgimaging.com/support>

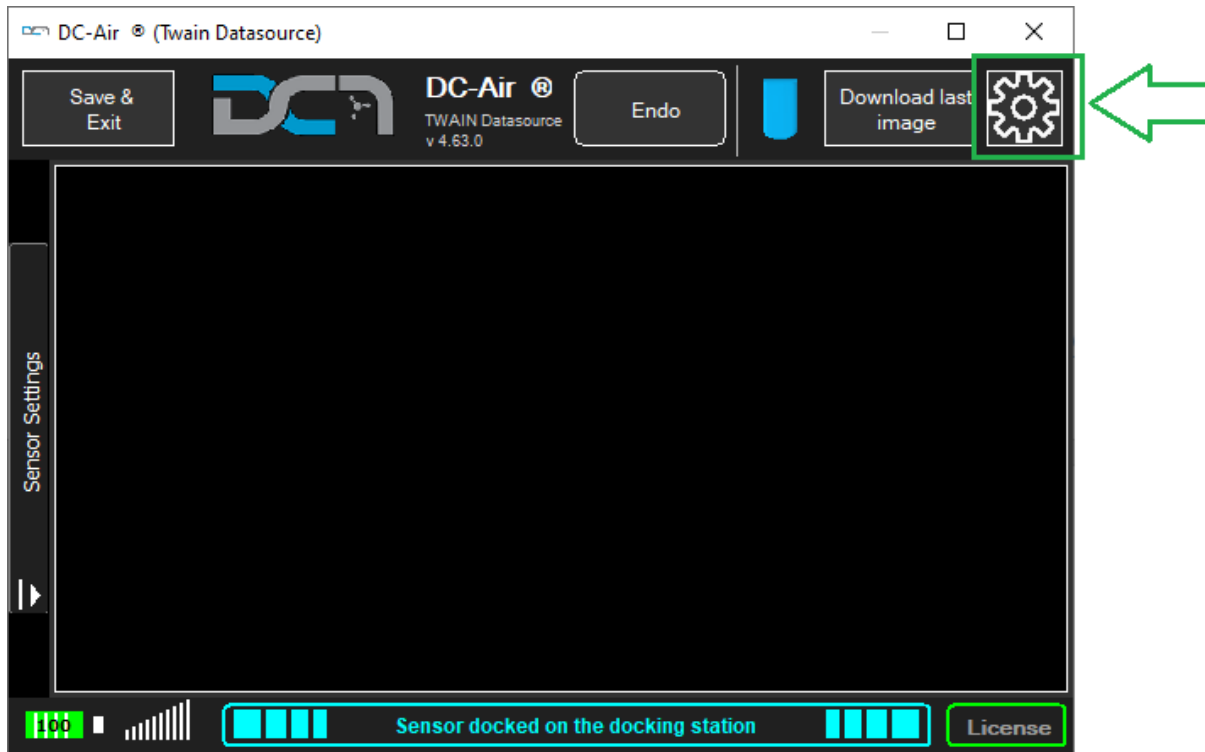
Opening the software for the first time

When the *TWAIN* software is opened for the first time through your office's image management program, it will start an automatic process of downloading a software license and calibration files for the sensor that is currently docked (estimated 10-30 seconds). When changing to a different wireless sensor, allow 30 seconds docked with the *TWAIN* software opened to allow the program to download calibration files associated for the different sensor before undocking to use. This will need to be done on each computer workstation used with the DC-Air™ docking station. Here are screenshots of that process.

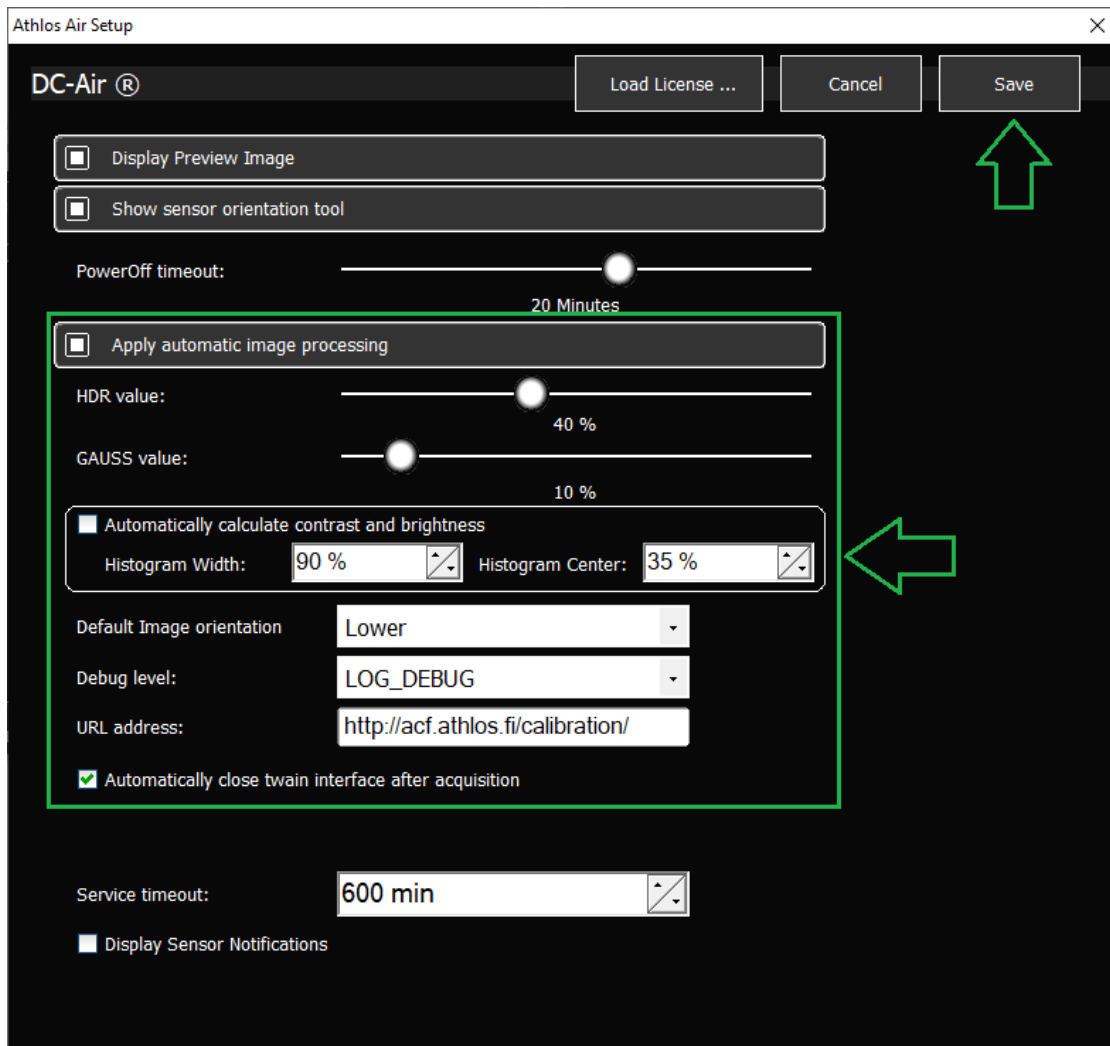


Next verify the default settings

To open the settings, click the gear in the top right corner of the *TWAIN* window.



- Apply automatic image processing should be checked (matching the below screenshot)
- HDR should be at 40%, GAUSS should be at 10%
- Automatically calculate contrast and brightness should be UNCHECKED
- Histogram Width should be at 90%, Histogram Center should be at 35%
- The Default Image orientation should be Lower
 - Change this orientation based on what the Image Management Software is expecting)
 - Taking some test images with different Layouts can verify this
- Debug level should be set to LOG_DEBUG
- Automatically close twain interface after acquisition should be checked
 - Mostly helpful with capturing multiple images one after another with series/layouts

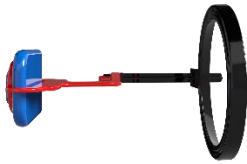


When done, use the Save button in the top right to close, then the Save & Exit button on the left on the main interface.

Review Training Videos on Use

To help familiarize yourself with the use of DC-Air™ and the Zero Profile™ holder system, please review the training video(s) we have available on our website:

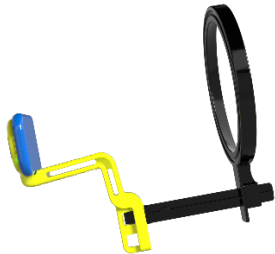
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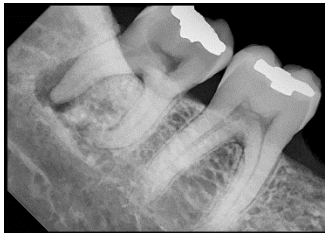
1: DC-Air™ in Bitewing Holder



2: DC-Air™ in Anterior Holder



3: DC-Air™ in Posterior Holder



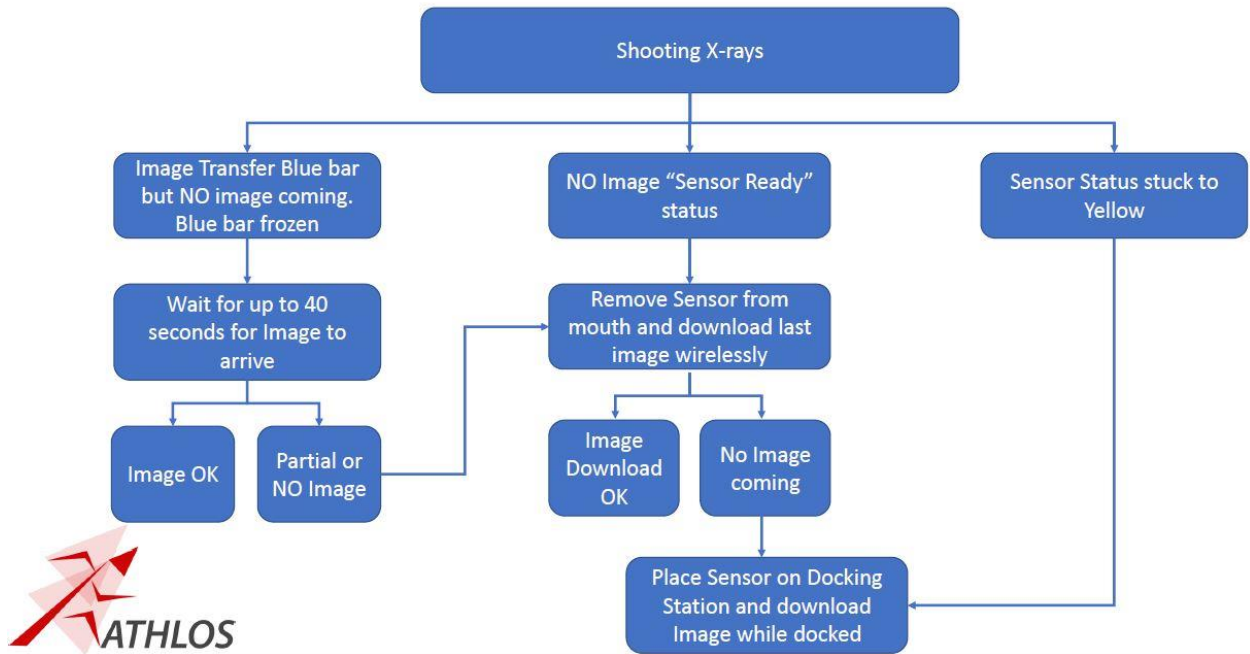
4: DC-Air™ in Endodontic Holder

Troubleshooting Guide

An Image was not returned when x-rays were emitted.

- Follow the flow chart on how to retrieve the image that was taken

DC-Air™ Workflow Instructions in Scenarios Where an Image is Not Returned



The DC-Air™ Docking station does not show up in the Device Manager.

- Unplug and plug back in the device to ensure both ends of the cable are firmly placed.
- Try another USB plug/port, in the event one of them is not working.
- Within the Device Manager, right-click the USB Hub, and disable any power options, and click OK.
For these settings to take effect, unplug the device and plug it back in.

