

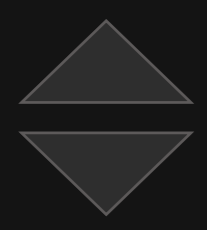


SurgicalAR[®] Mini

Quick Start Guide

Hardware Boot-up

To turn on the laptop, press and hold the power button for 3 seconds (located at the top right).



To raise or lower the cart height, depress the lever located on the right side under the cart top, manually adjust to the desired height, and then release the lever.



Turning on HoloLens 2

Power button

Press for two seconds to turn on device



To power on the HoloLens 2, press and hold the round button located on the back right side for two seconds. Once the device is powered on, position it as if you are wearing a baseball cap. The wheel on the back can be turned to adjust for a comfortable fit.



Troubleshooting

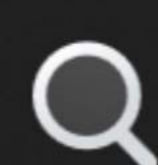
If the HoloLens 2 does not power up, check the status of the battery by looking at the white indicator lights under the power button.

To reset the HoloLens 2, press and hold the power button for 5 seconds, wait another 5 seconds, and then power it back up.

Note: The HoloLens 2 lights will not appear while the system is turned off and charging. To check the battery status, turn on the system.

Launching the Medivis App

Hover your mouse at the bottom of the screen. Once the taskbar appears, select the Medivis app to launch it.



Operation of Workstation/App

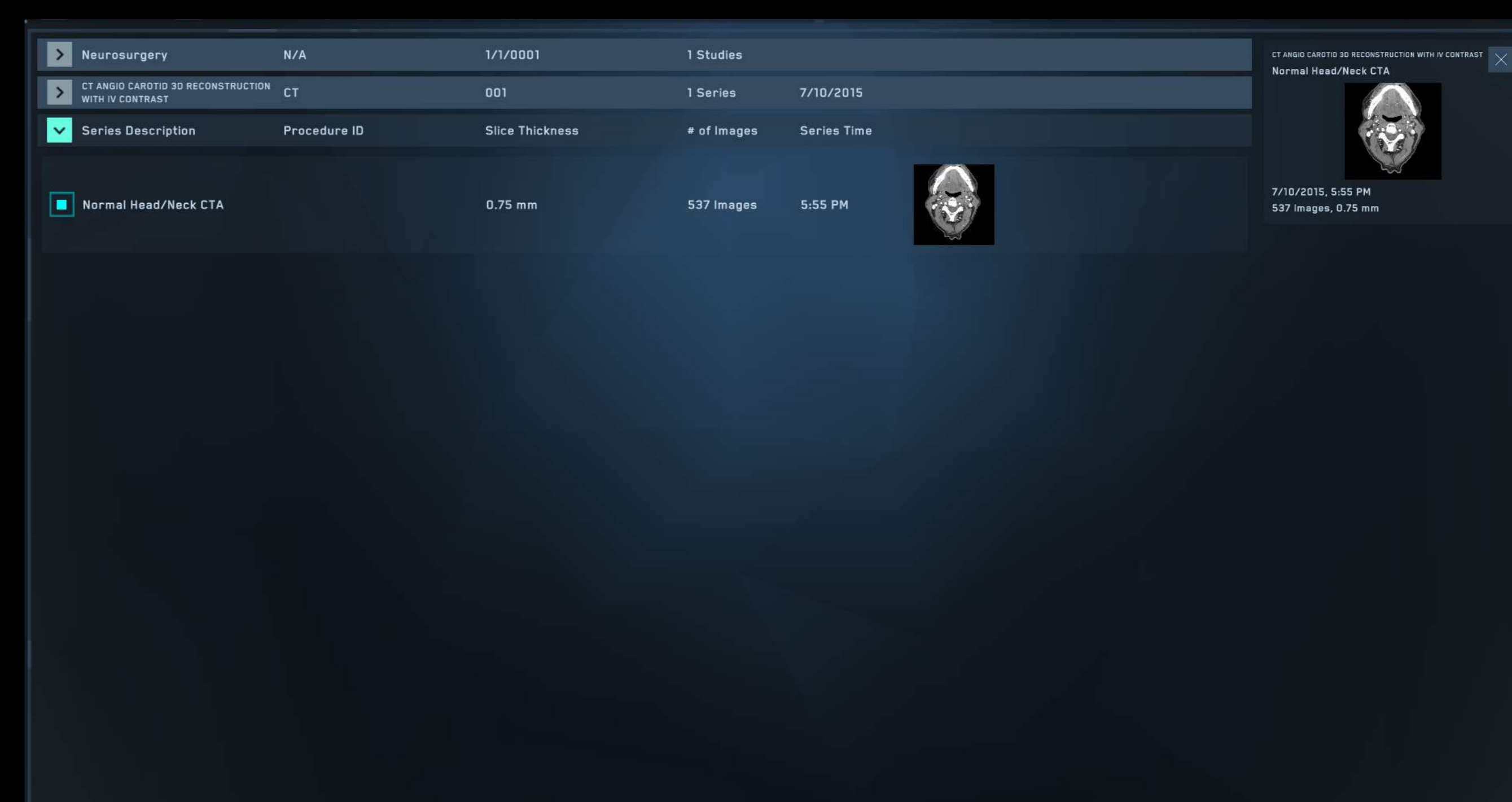
1. Select the appropriate planning feature (i.e. “SurgicalAR”, “EVD” workflow).



Select the appropriate planning feature

2. Launch App.
3. Select “offline mode”.

4. import images via external drive, library, or PACs using MRN.
5. load study by selecting images and pressing load scan at the bottom of the screen.



Loading a study screen

Connecting HoloLens 2

1. Once HoloLens 2 is powered on, you should see a blue menu pop up. If not, hold up left hand and tap the Windows icon on your wrist. Open the Medivis app from the blue menu by pressing through the icon with your finger.

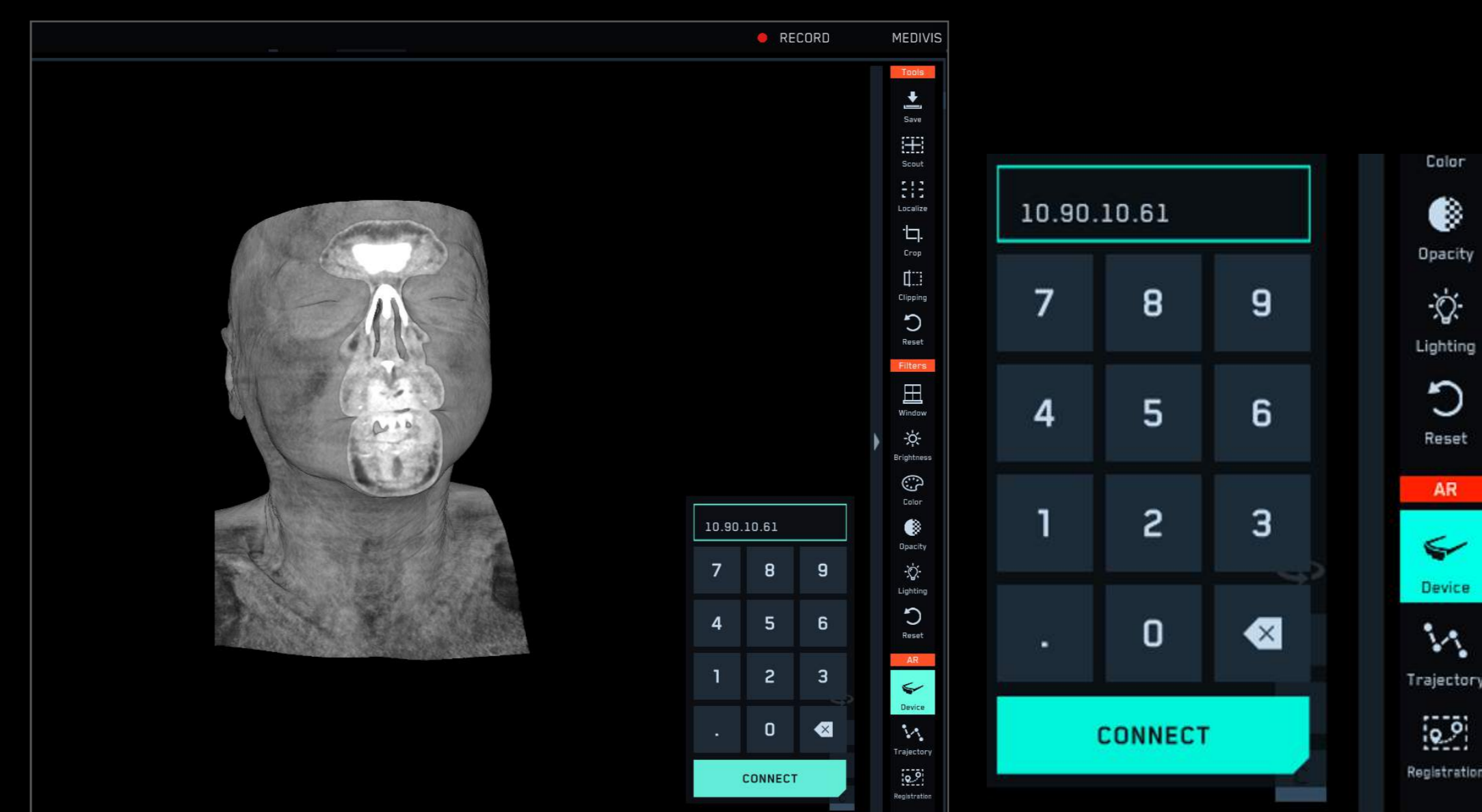


2. When you see the head icon, hold your hand up to reveal a "play" icon in the center of the logo. This will allow you to open the app.



3. Press “play” by taking your pointer finger and push through the play button.

4. At this point, go back to the software, and on the screen select “device” on the bottom right side of the screen.



5. Enter the numbers displayed in your HoloLens 2
6. HoloLens 2 will connect, and when prompted advance your pointer finger through the “tap to place” to see your 3D rendering.

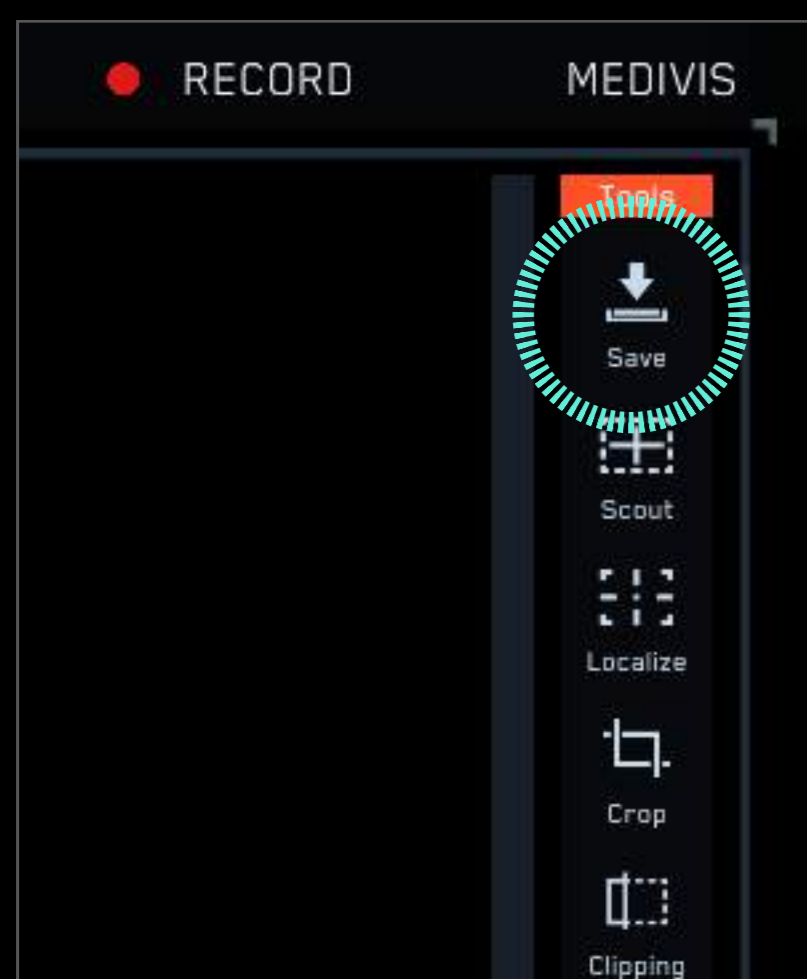
Troubleshooting

If you are unable to connect, check to ensure that your HoloLens 2 and laptop are on the same network. To check network connectivity on your HoloLens 2, tap the Windows icon on the left wrist and select the WiFi logo from the menu.

To check network connectivity on your computer, use the touch screen to drag up from the bottom right side of the screen and select the WiFi logo. Make sure that both your HoloLens 2 and your computer are connected to the same network.

Saving Scans

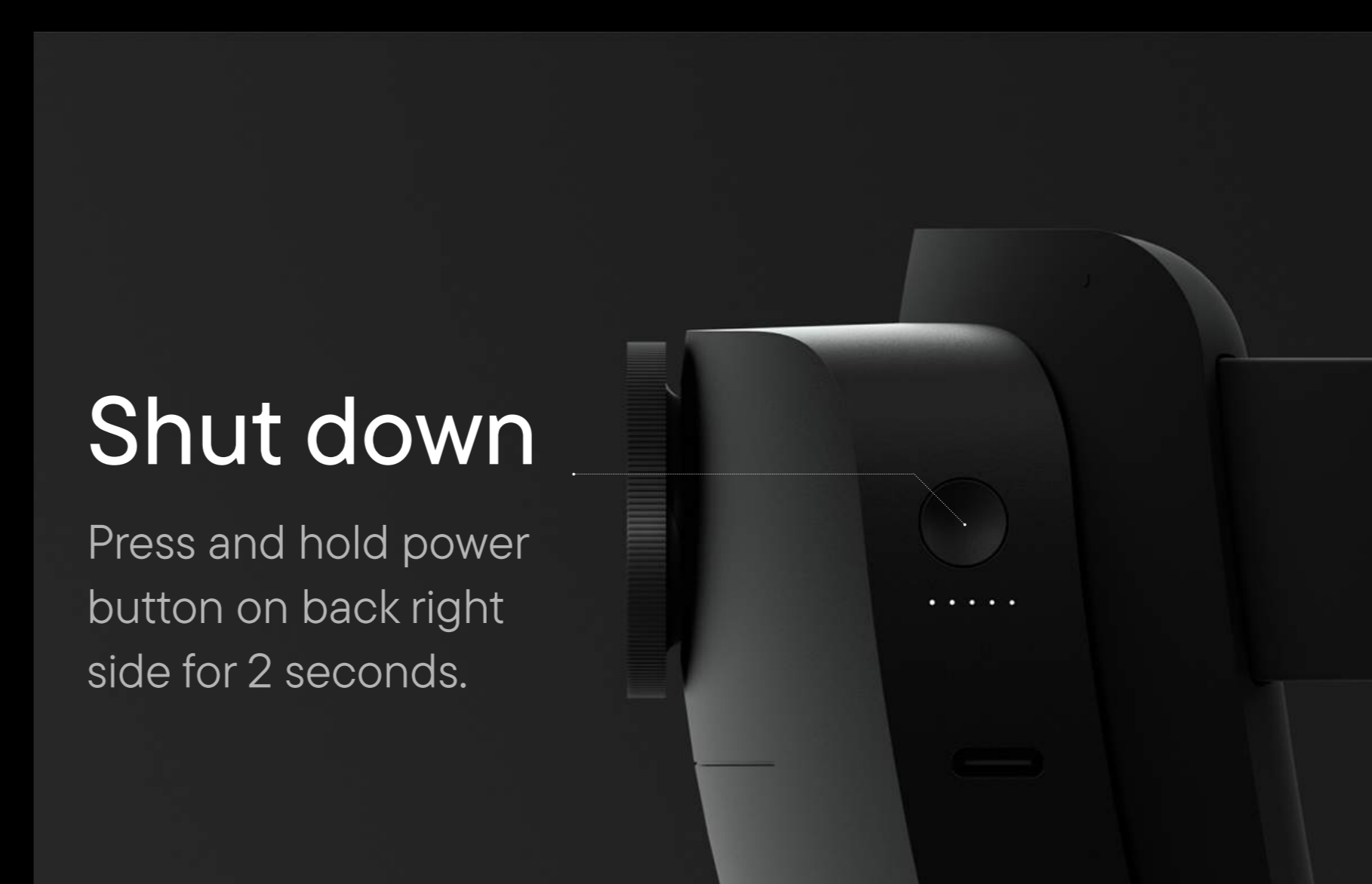
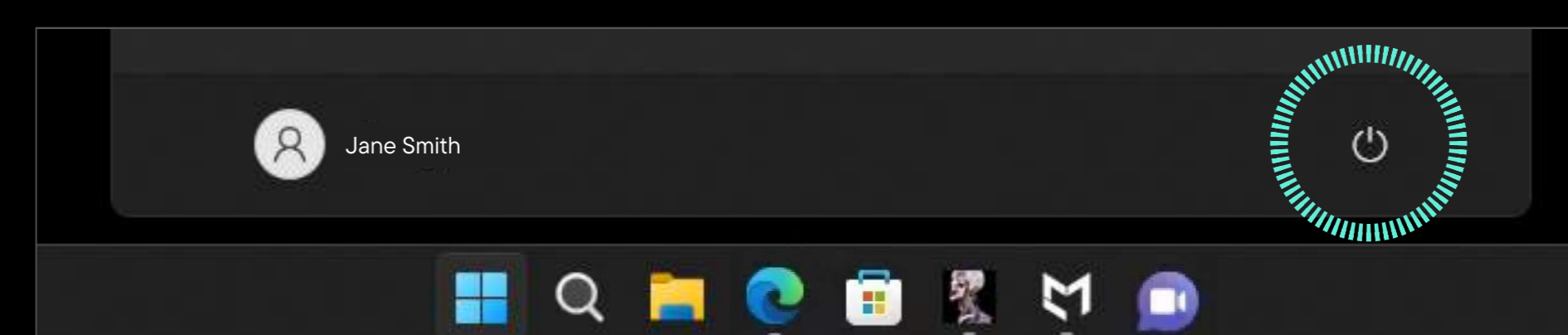
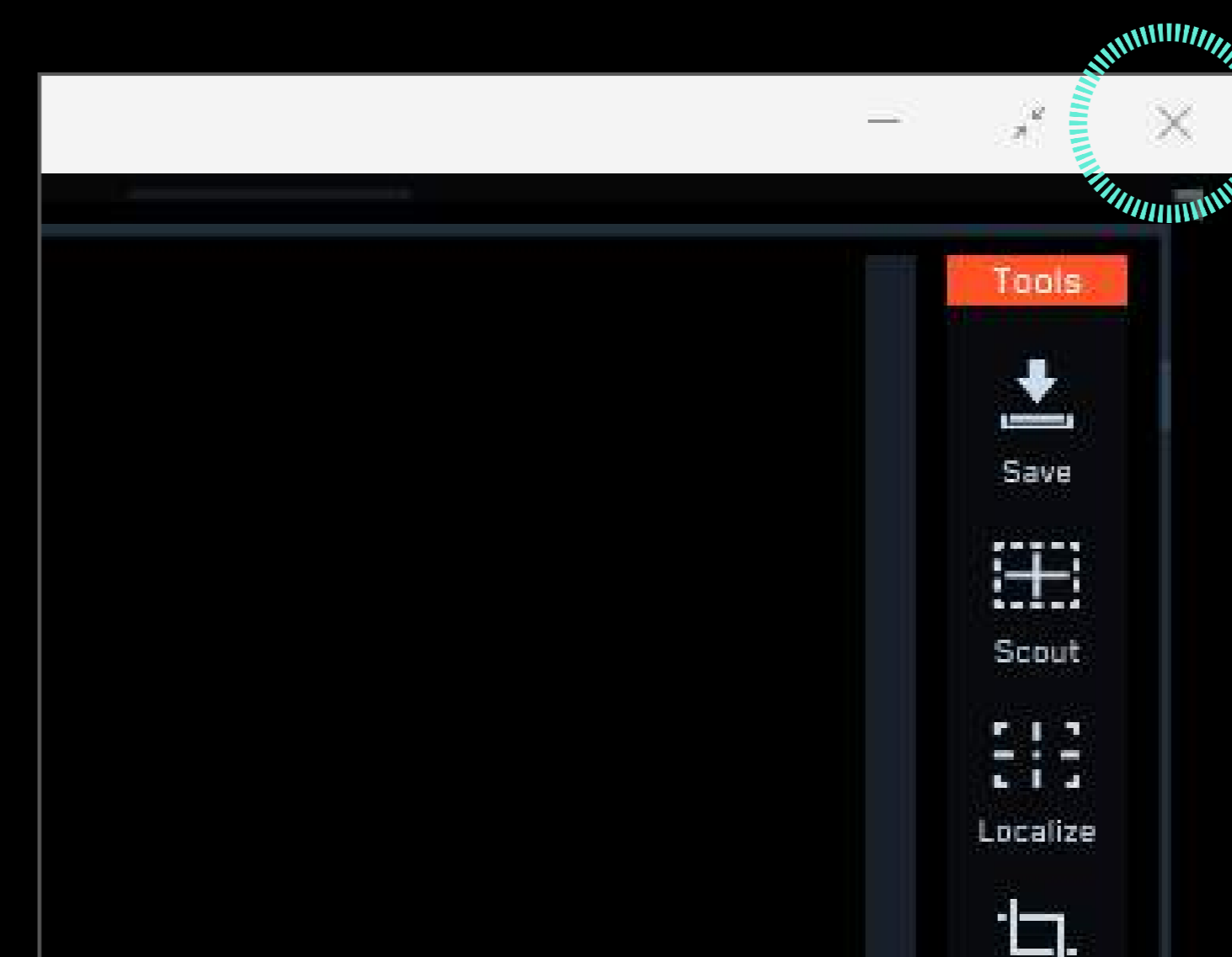
1. To save scans to the library for faster import later, click the Save button located at the top right of the panel on the right side of the screen.
2. Sessions are saved in the library under the patients name. Click the patients name and the saved file can be found there.



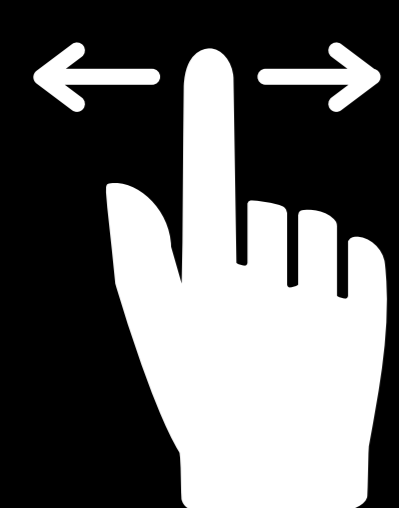
Overview of patients in the library

Hardware Shutdown

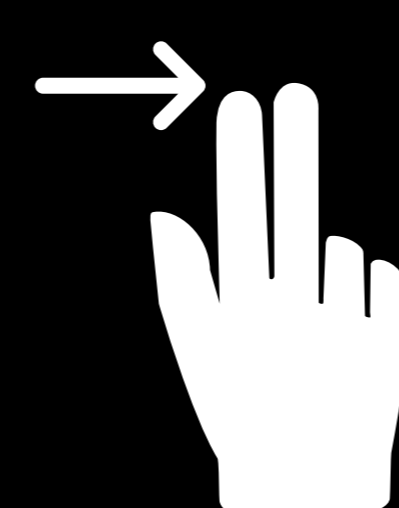
1. To disconnect the Hololens 2, press "disconnect" under the device menu on the software.
2. To shut down software, swipe down from the top of the screen and press the X in the upper right corner of the software.
3. On the computer home screen, click the Windows button at the bottom, then select Power > Shut down.
4. To shut down Hololens 2, press and hold power button on back right side for 2 seconds. The white lights will turn off.
5. To power down the cart, press and hold the power button until it beeps.



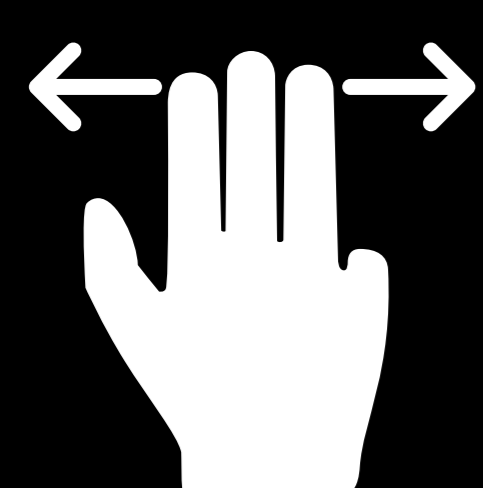
Finger Gestures on touchscreen:



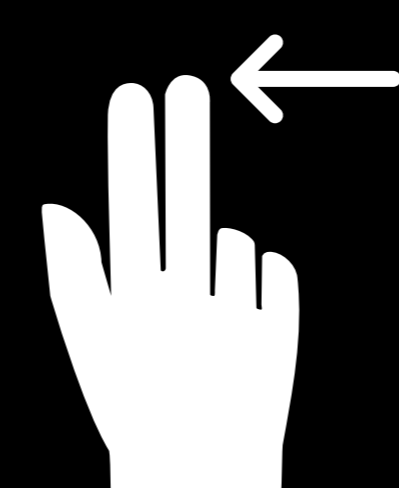
1-finger drag.
Rotates image on axis.



2-Finger drag to the right.
Windows out tissue.



3-Finger drag
Moves entire volume



2-Finger drag to the left
Adds tissue back to volume

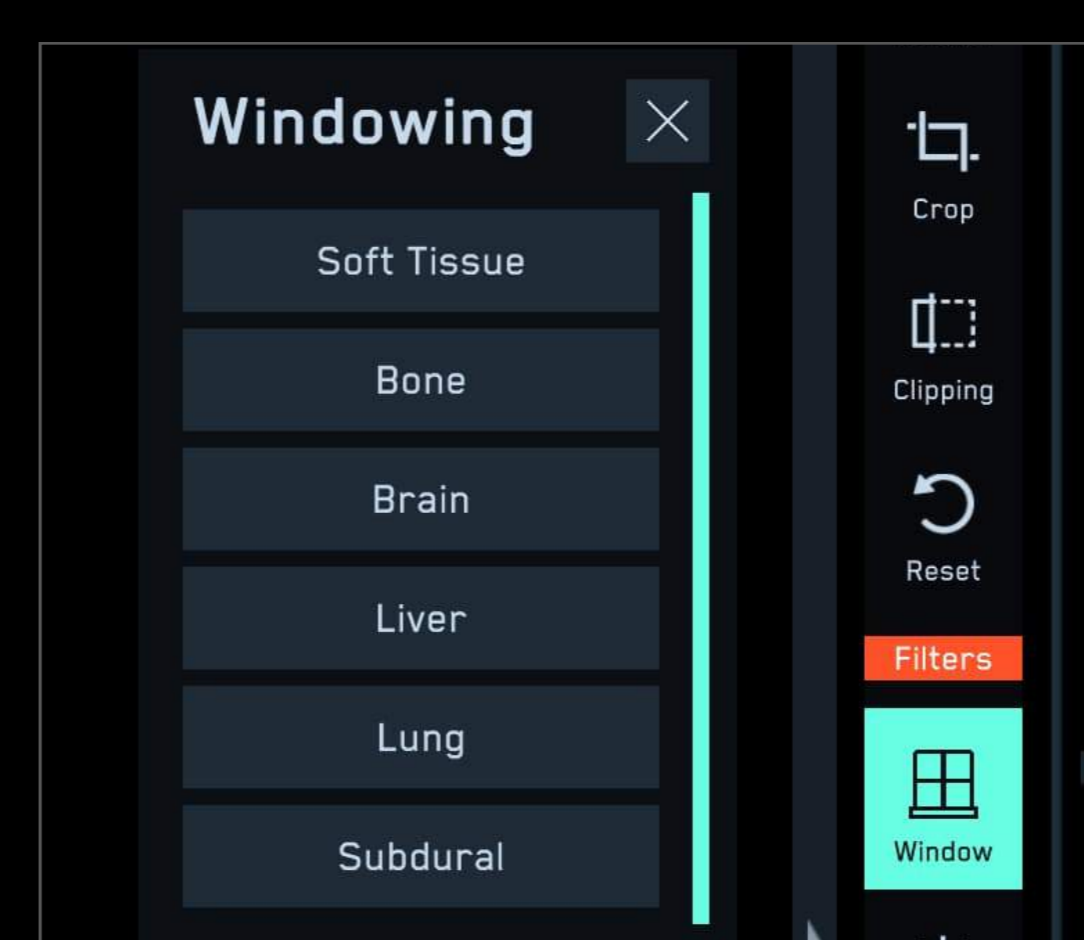
App functions

Clipping: Adjust depth of field into volume. Select the “clipping” button on the right side of the screen. Use the adjustable slide on the screen to slice through volume.

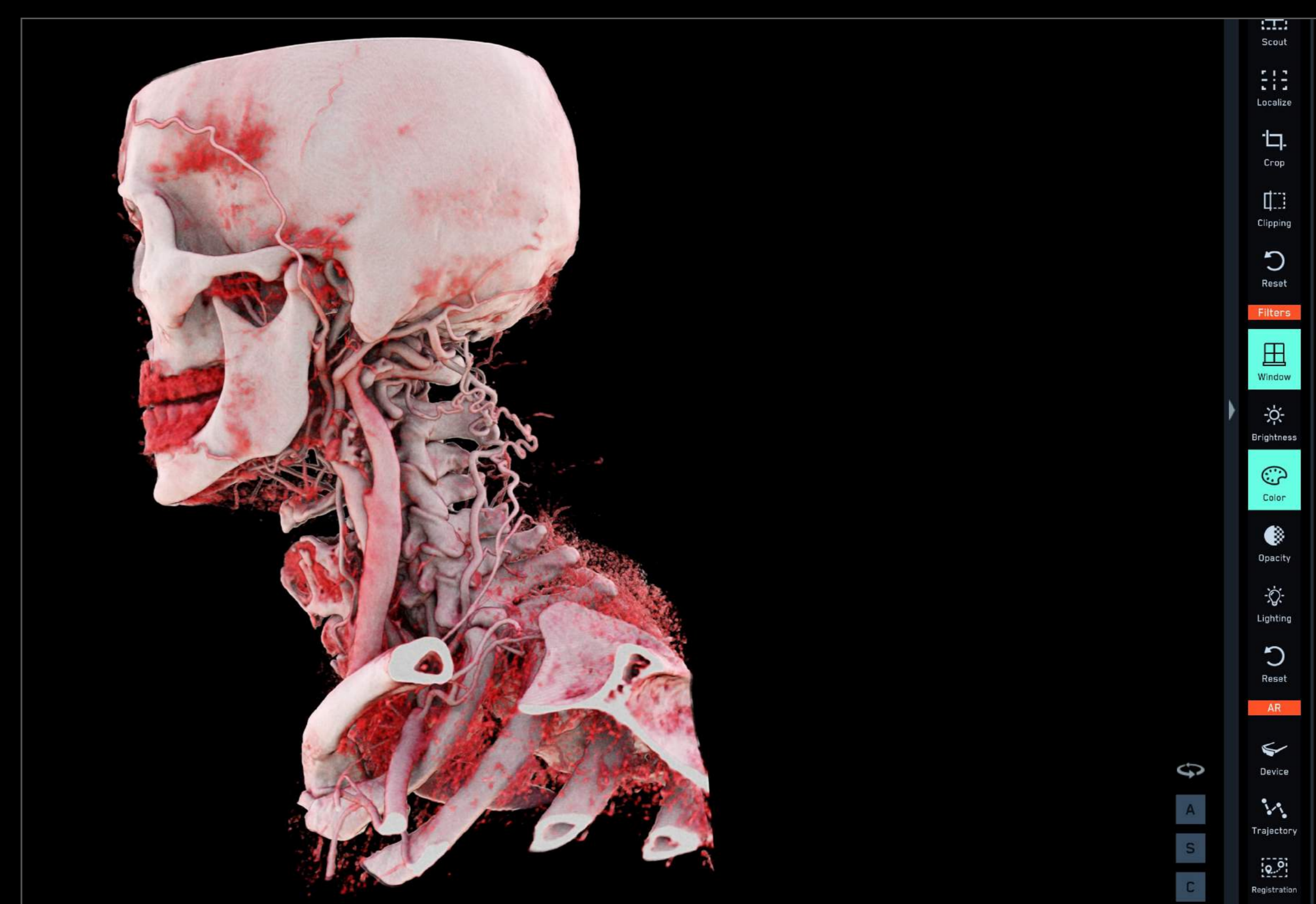


Window: Quick window in order to highlight anatomical structures

*Note: When “windowing box is checked, 1 finger gesture now windows. When it is unchecked finger gestures resume as normal.



Color: Add photo realistic color rendering to volume to enhance anatomical structures



Opacity: Adjust transparency of image for better clarity of objects seen through it. This feature becomes more important once the hologram is overlaid onto the patient for better visualization of the anatomy underneath.

