3D Organon XR
User Manual   Ultrasound
for Standalone & PC VR Headsets

Available for:
Standalone VR headset: Meta Quest 2 | Meta Quest 3/3s | Meta Quest Pro | Pico Neo 3 Pro | Pico 4E | Pico 4 Ultra E | HTC Vive Focus 3 | HTC XR Elite | Apple Vision Pro

PC VR Headsets: HTC Vive Pro/Pro 2/Pro Eye | HTC Vive Cosmos and Windows MR headsets
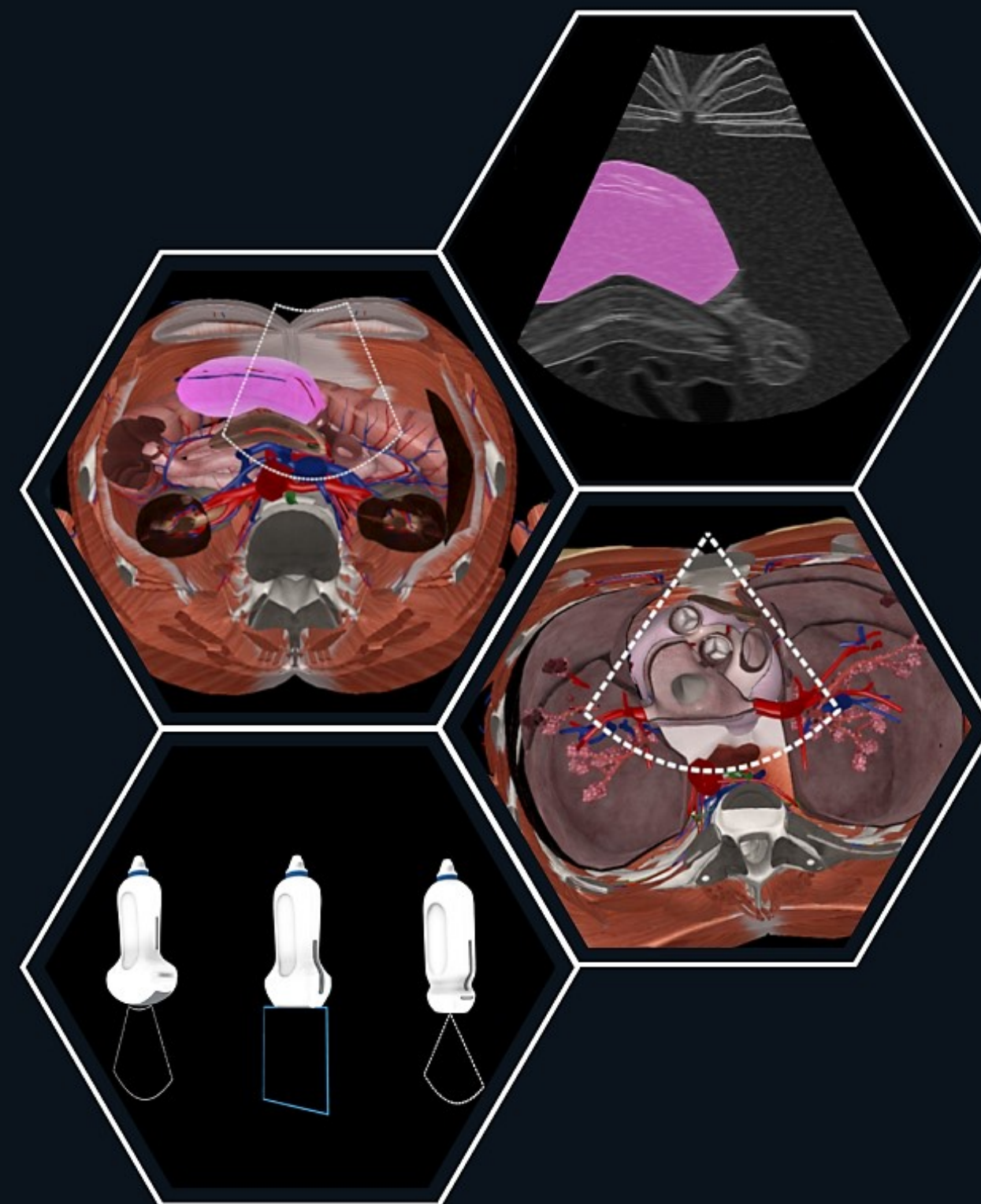
Table of Contents

3Organon

Kindly continue reading, or click on a link to get directly to a specific section.

Setup

3Organon

1 Requirements

- For Hardware Requirements & Installation Instructions

  PC VR headsets: click here

  Standalone VR headsets: click here

- To log in, you must have an active **Subscription** which is provided to you with a License Key.

  If you **already have a Subscription** then:

  - ❑ Activate your 3D Organon account from the **Welcome to 3D Organon** email you received.
  - ❑ Get your License key from the **Order confirmation | 3D Organon License key(s)** email you received.
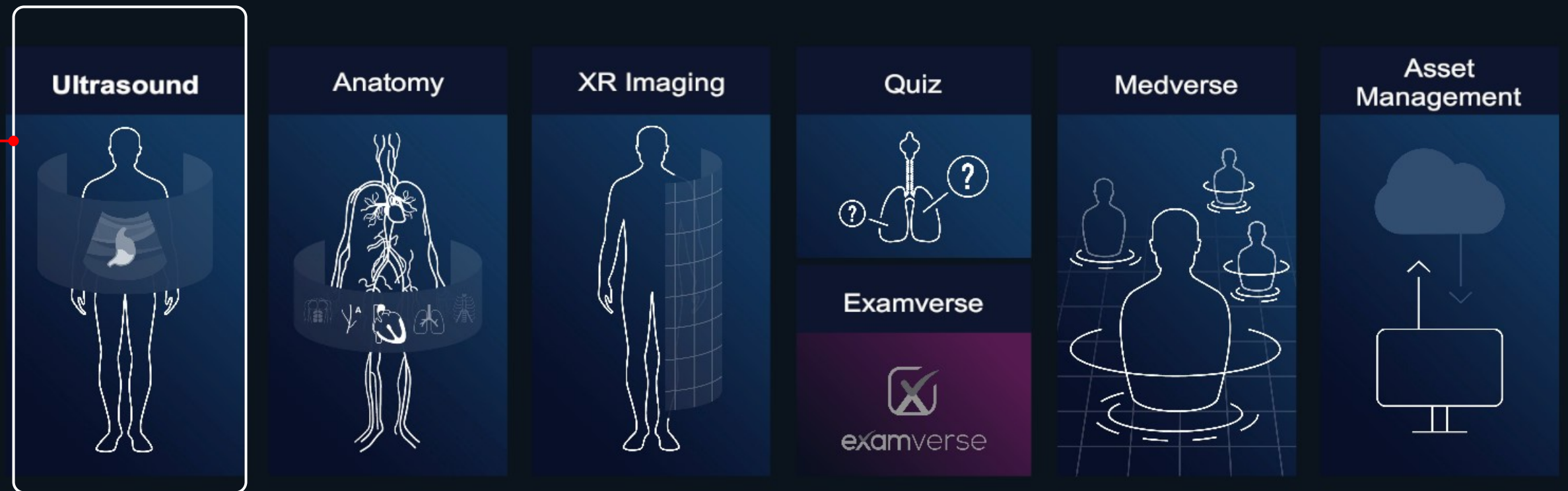
  If you **do not have a Subscription**:

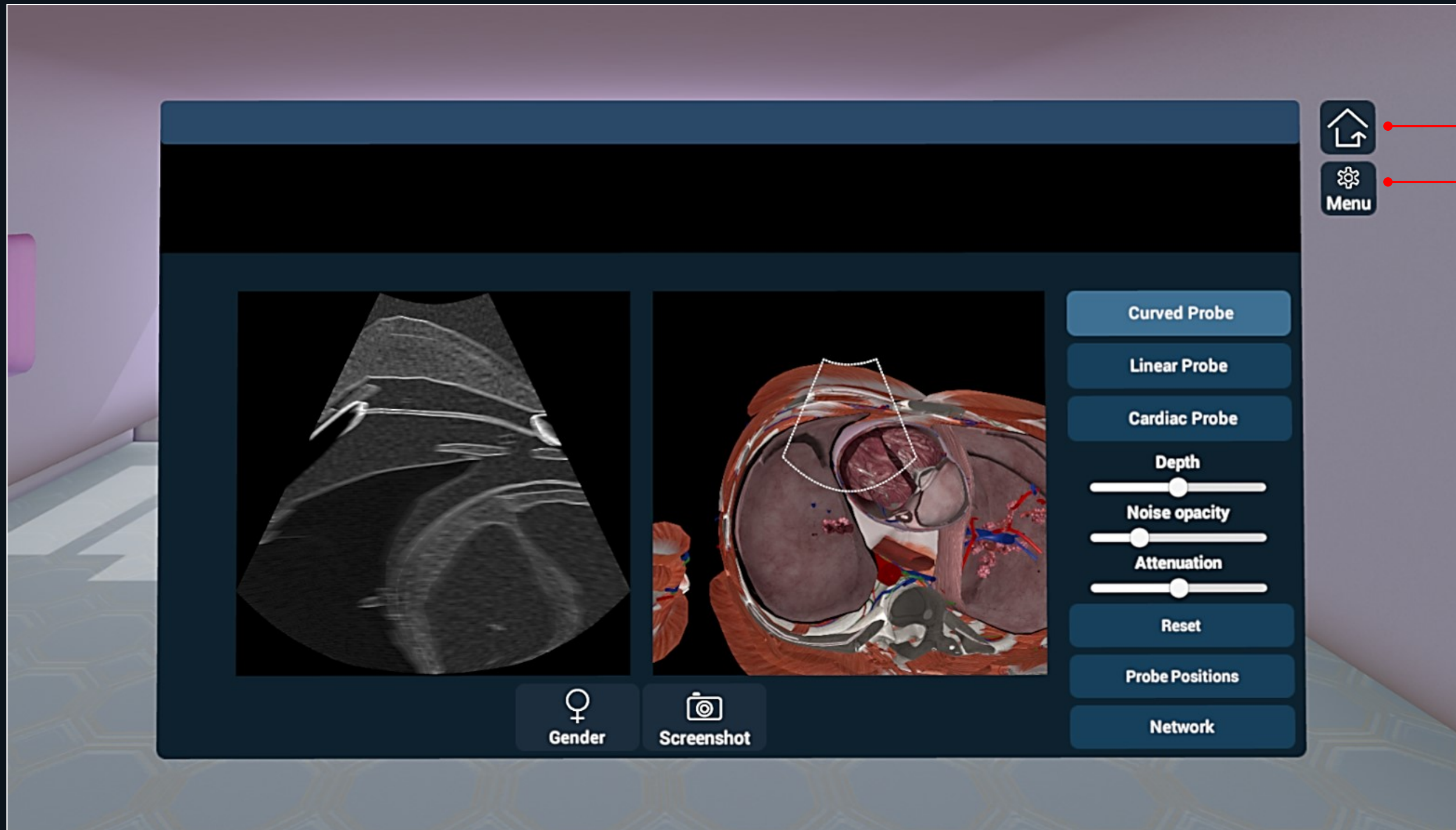 - ❑ Contact our Customer Development Team at prosupport@3dorganon.com

The Lobby

2 **The Lobby features**

Select from the following modules:

- **Ultrasound**

Ultrasound | Anatomy | XR Imaging | Quiz | Examverse | Medverse | Asset Management

Menu

3　**How to exit the Ultrasound module**

Click here to go
back to the Lobby

Settings

Menu

4 Settings

Themes Blue (default), Black, Green, White

Users can download additional languages.

Options
You can also access our user manuals and FAQs for more information by clicking on the '**Help**' button.

Logout
Press the '**Logout**' button to shut down the app and remove your access credentials from autologin (recommended for public computers and libraries to avoid credentials from being stored in the device).

Quit
Press the '**Quit**' button to turn off the app (your credentials are stored locally. You do not have to insert them again when you log in the same device). Internet access at login is still required.

Once a language has been downloaded, you can uninstall it by clicking on the Bin icon.
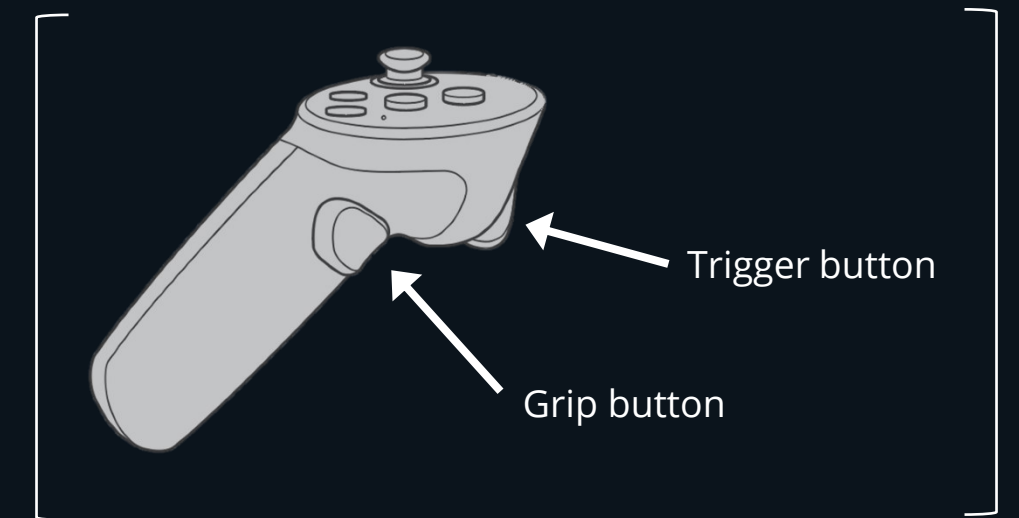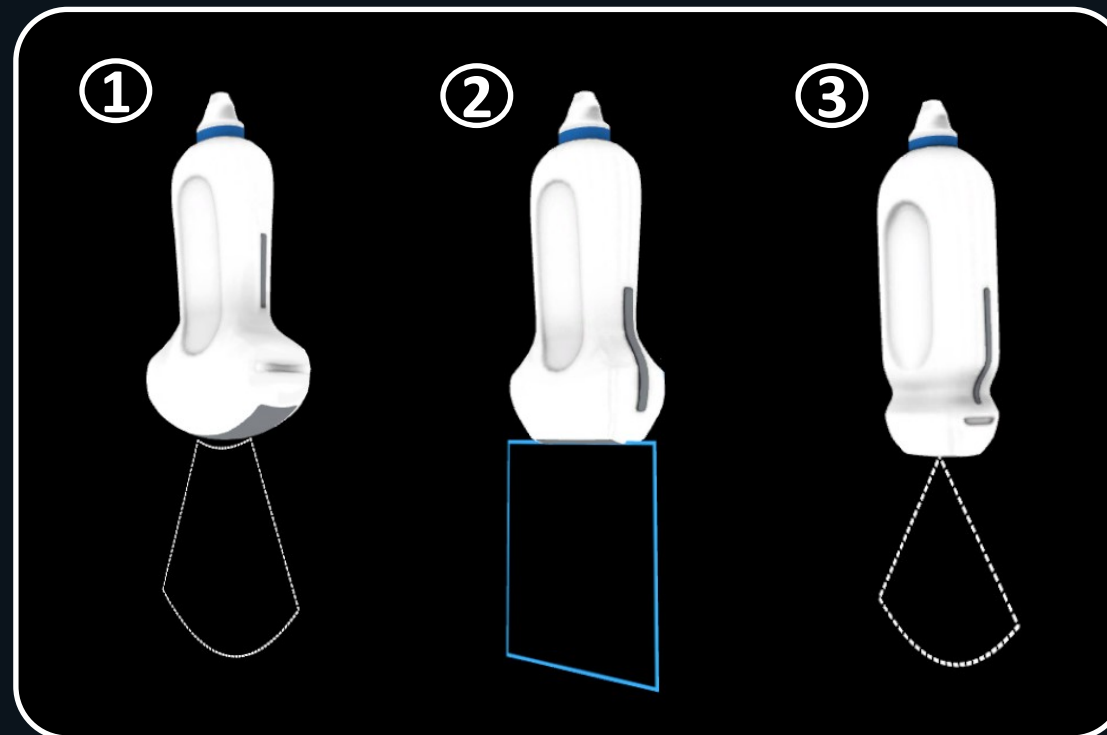
Get Started

5 **Ultrasound Probes**

- Use the **Trigger button** to press virtual buttons and move scrollbars. It is also used for Labelling and Color Mapping.

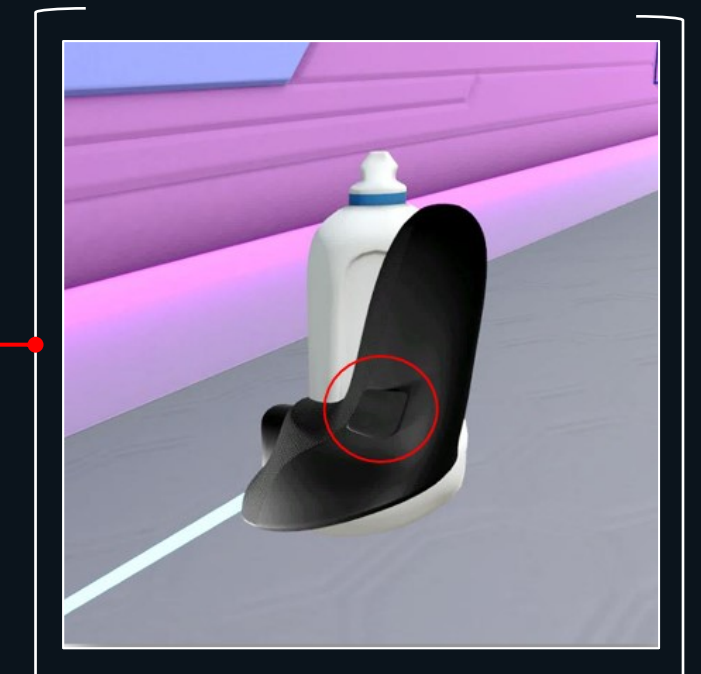 The **Grip button** is used to grab and move the Probe.

- There are three different Probes available:
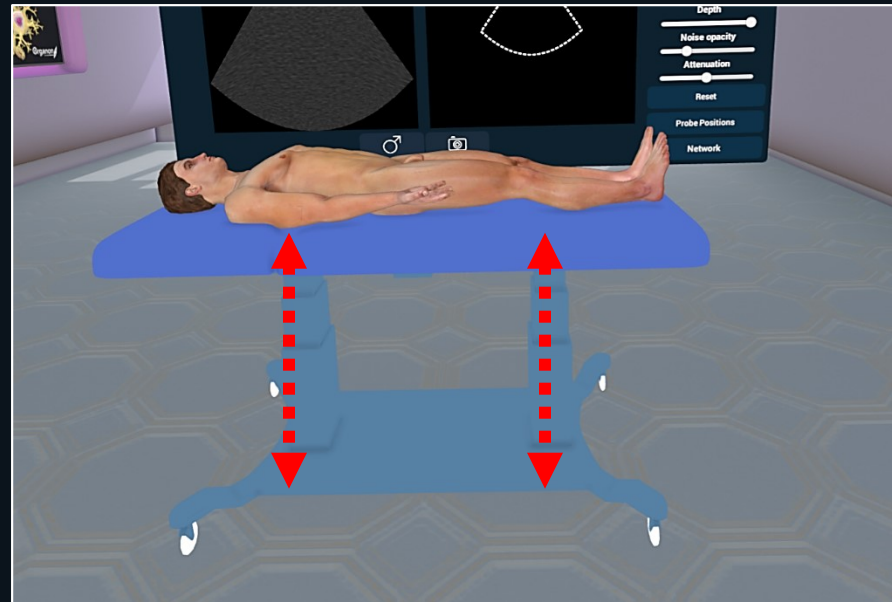
  1. Curved
  2. Linear
  3. Cardiac

① ② ③

Trigger button

Grip button

6 **How to use the Ultrasound Probe**

- Turn your controller facing downwards, click and hold the **Grip button** to simulate the way the probe is held and moved in real life.
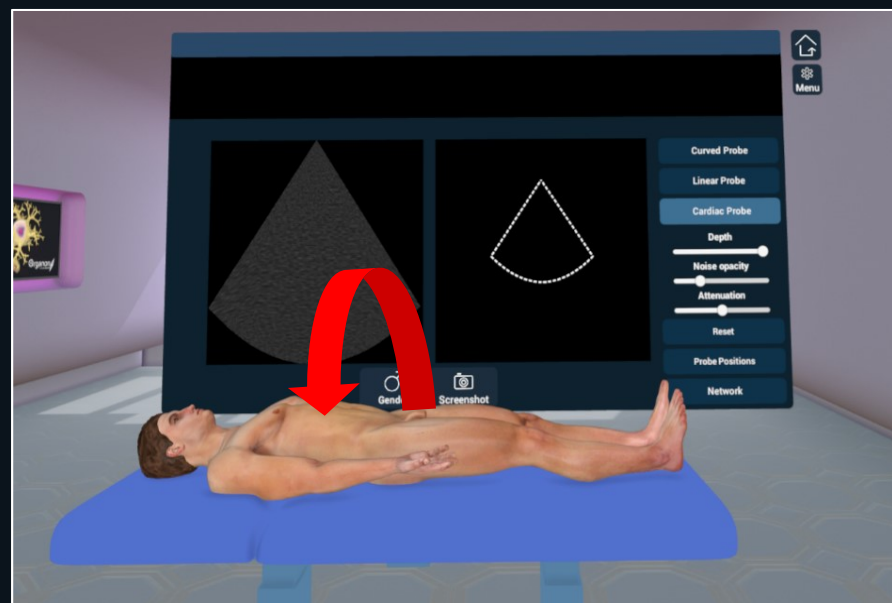
Get Started

3Drganon

- To adjust the bed height, press the top or bottom side of the touchpad or thumbstick of the left controller.
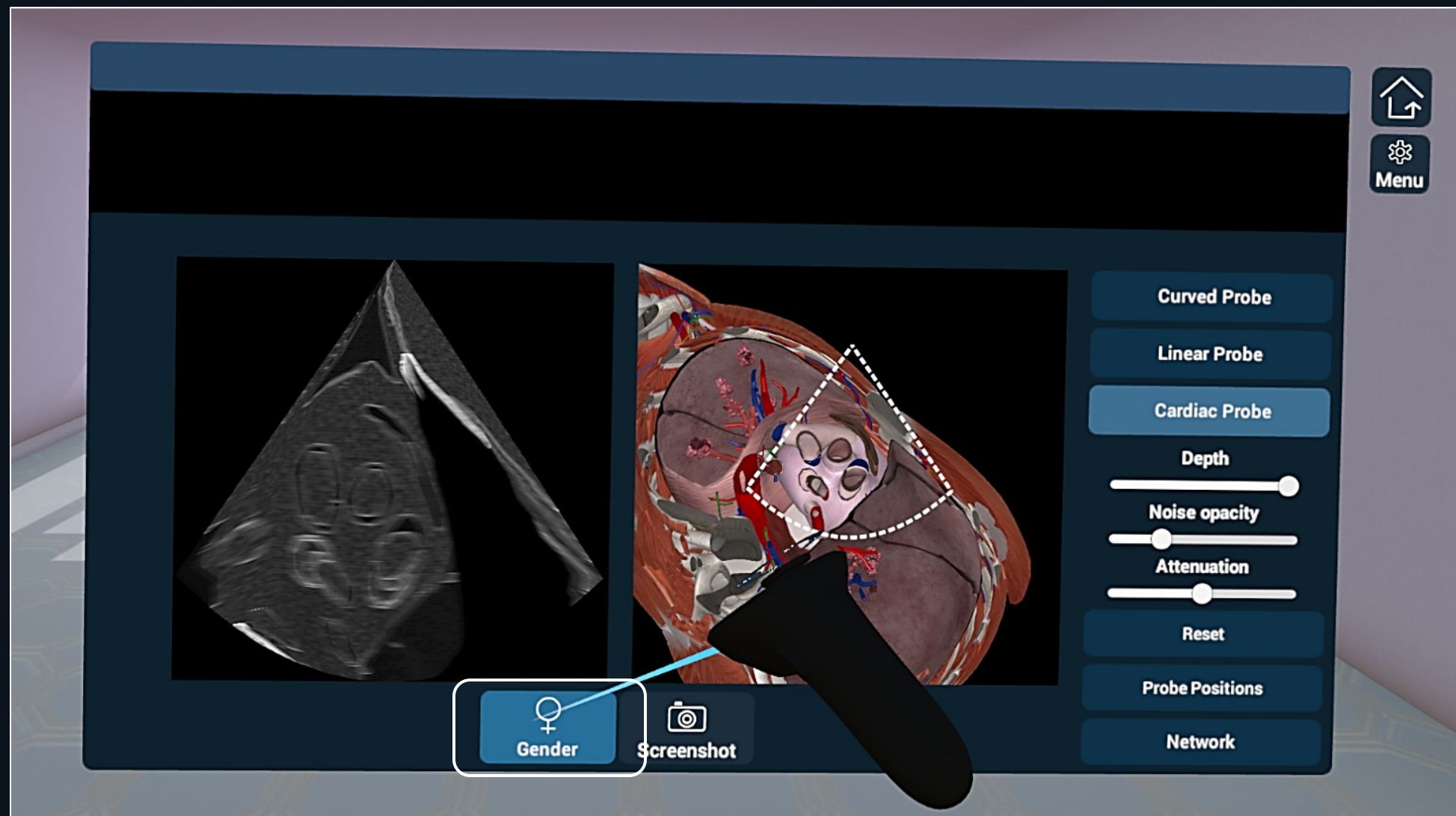

8 **Adjusting the Model Position**

- To adjust the scanning position (Sagittal and Coronal), press the top or bottom side of the touchpad or thumbstick of the right controller.

Get Started

9 Gender Selection

- By pressing the 'Gender' icon with the trigger button, you can switch between male and female models.

Get Started

10   Ultrasound Settings

- Slide the scrollbar left or right with the trigger button, to change the Depth, Noise Opacity and Attenuation settings.

- Click on '**Reset**' to bring them back to the default settings.
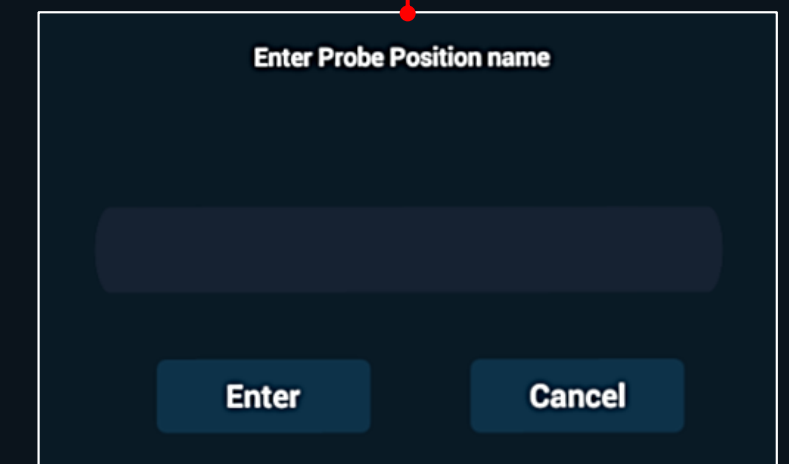
Get Started

11   Saving your Probe positions

- By pressing the '**Probe Positions**' icon with the trigger button, you can save your probe positions so that you can easily find it when you re-enter the ultrasound module.

Click on '**Save**' and then enter a probe position name.
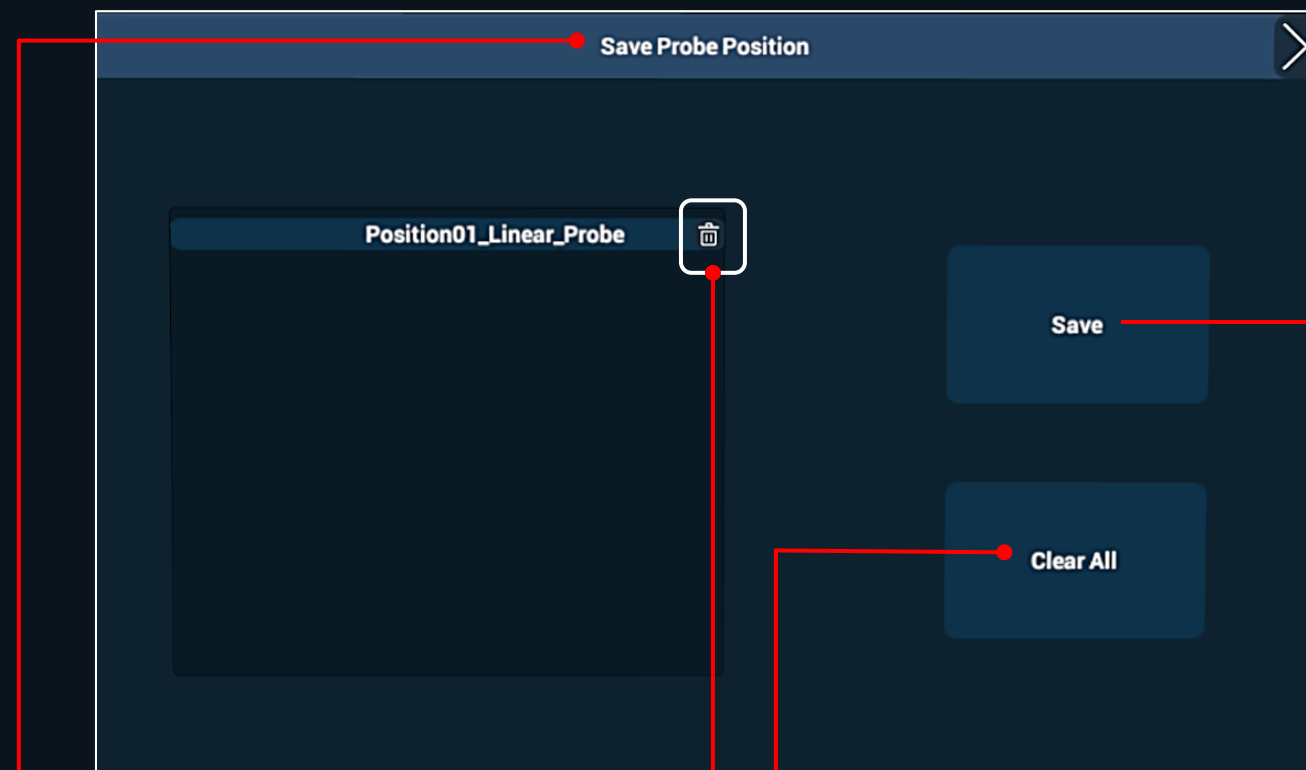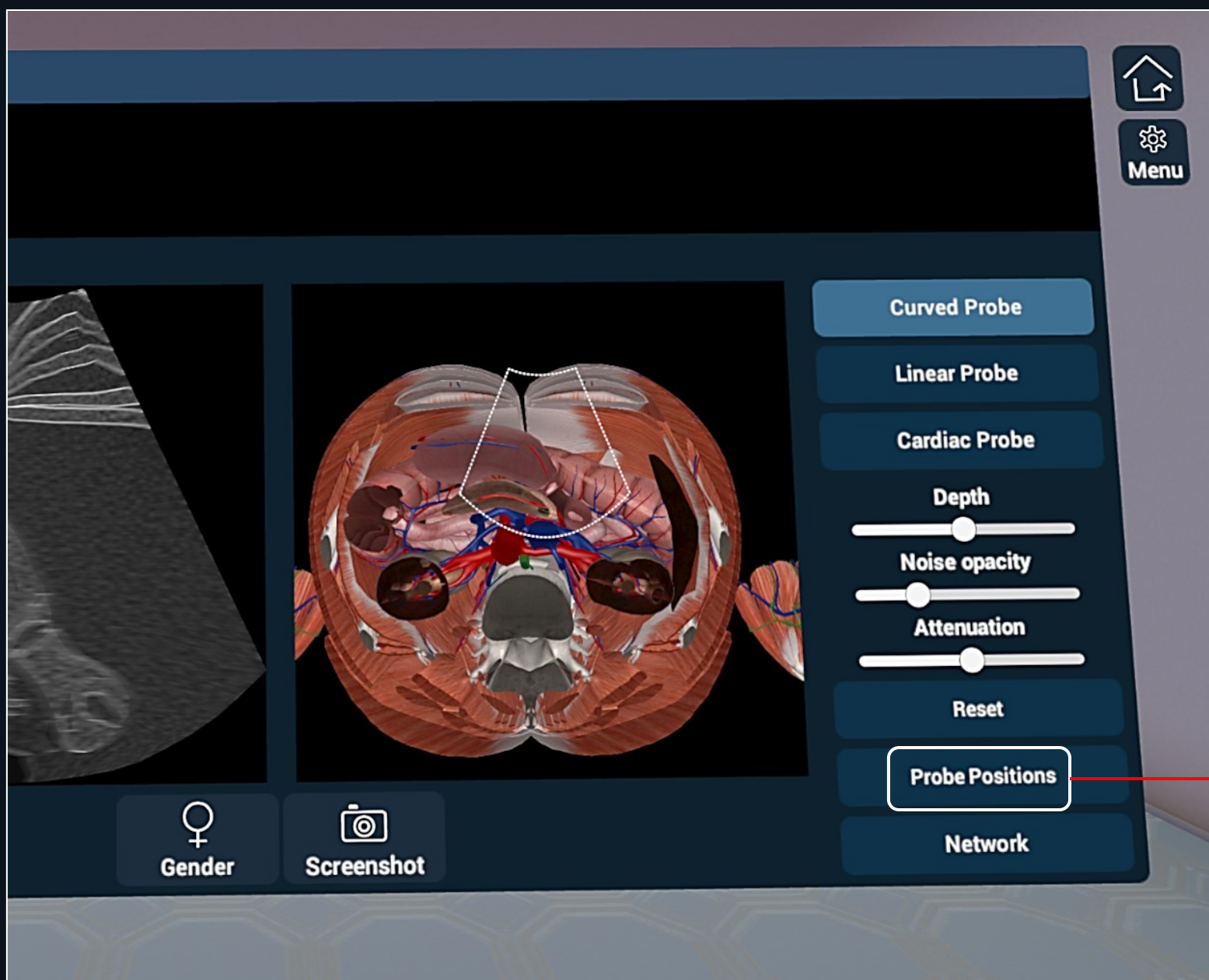
You can erase a saved probe position by clicking on the '**Delete**' icon.

Click on '**Clear All**' if you need to delete all of your previously saved probe positions.

Get Started

12 Labelling and Color Mapping

- Select and Color Map an organ or structure in the 3D Model (Window 2) to view the corresponding color mapped organ in the Sonogram (Window 1), and vice versa.

- The name of the Organ is displayed in the title window at the top. For example, the image below depicts the Colon (large intestine).

Get Started
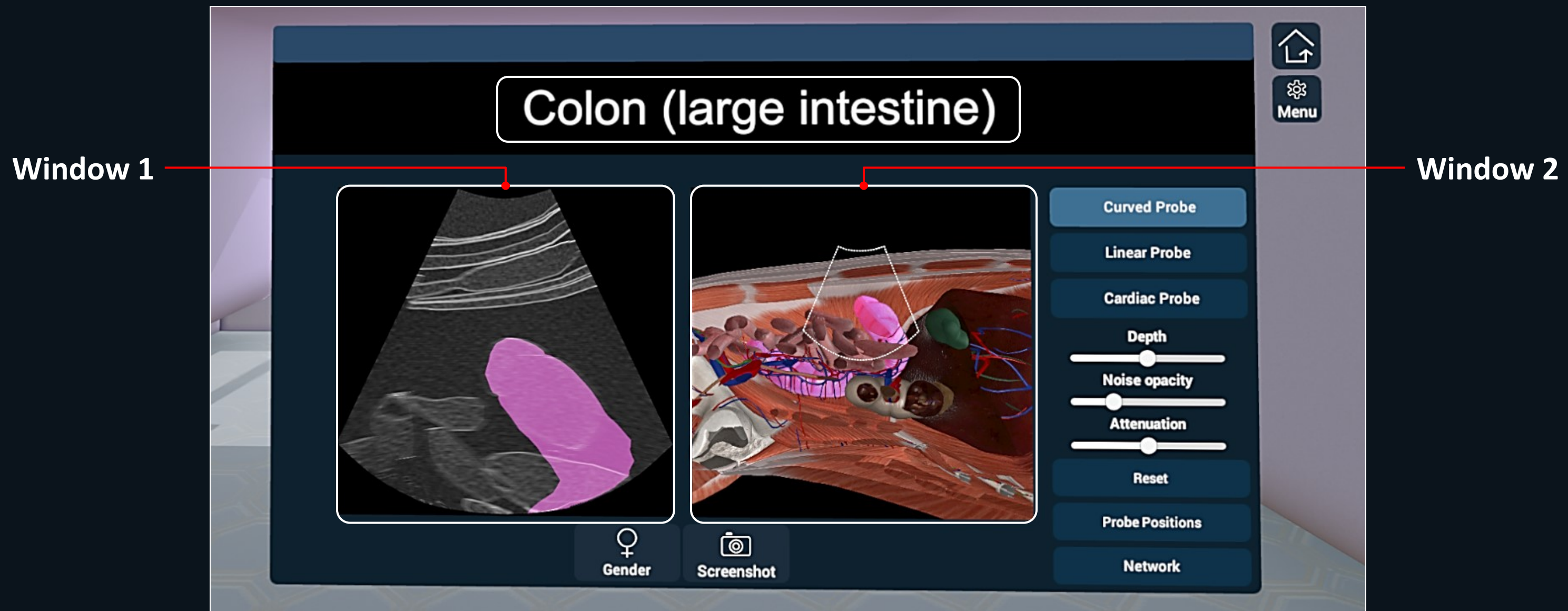
13 Drawing Tool

- Click on the '**Screenshot**' icon to make the window appear.

- Select a color from the color palette and choose the size of your brush to begin drawing.

It is possible to adjust the thickness and color of the line.

Clear everything by clicking '**Clear All**'.

PC VR: To take a screenshot, click the '**Save Screenshot**' icon. Then, navigate to the Pictures folder in File Explorer on your PC to locate it.
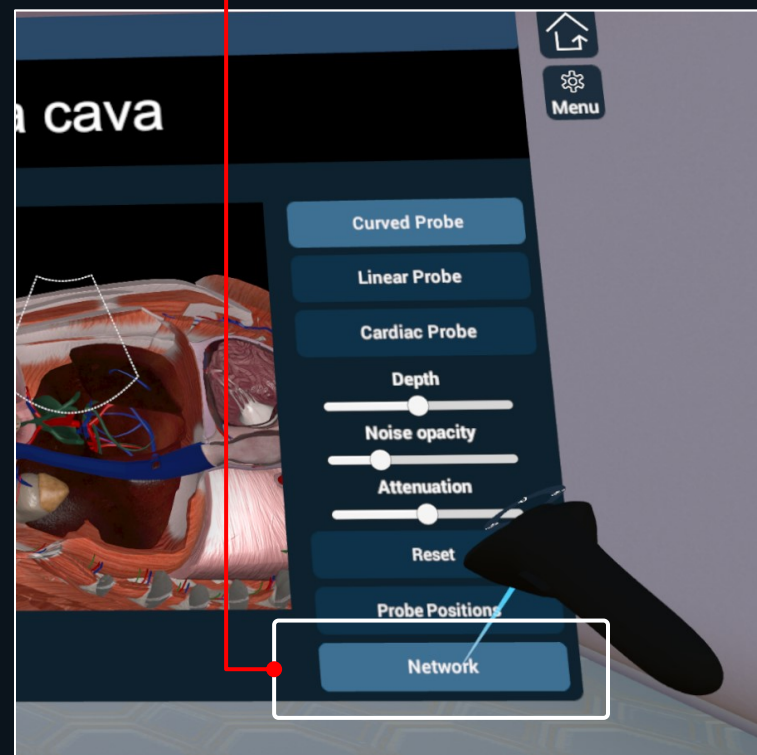
Close the window

Remote Delivery / Medverse

3Organon

14 Join a session

- Owners of 3D Organon apps can join a multi-user training session, deployed by an owner of a Premium license or Institution. You can also join a multi-user session in Guest mode.
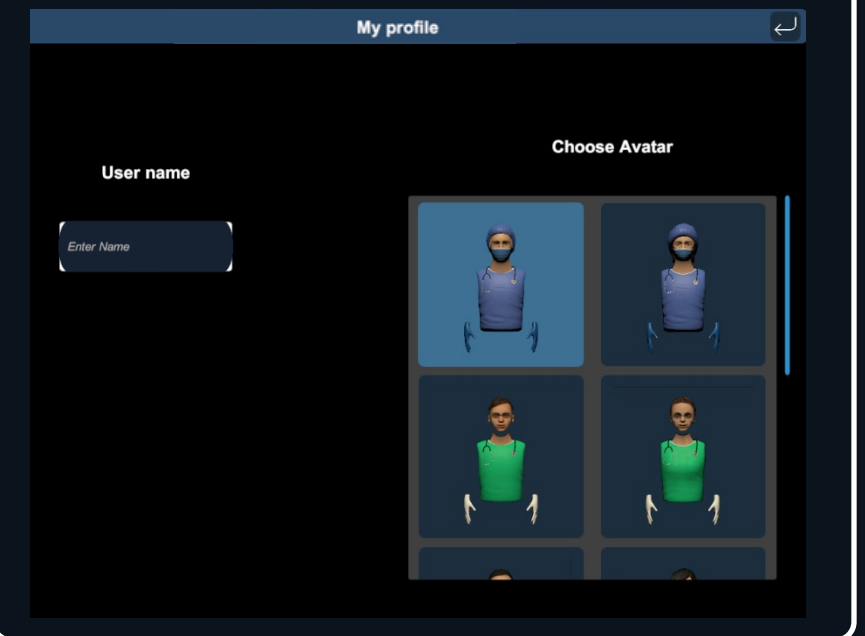
Click on the 'Profile' icon if you want to change your Username and Avatar.

Click on the '**Network**' icon.

Select from the list of the available rooms and press '**JOIN**'.
You can follow the session as presented by the tutor and communicate using text chat functions.

If a password is required to join a particular room, please contact your institution/instructor.
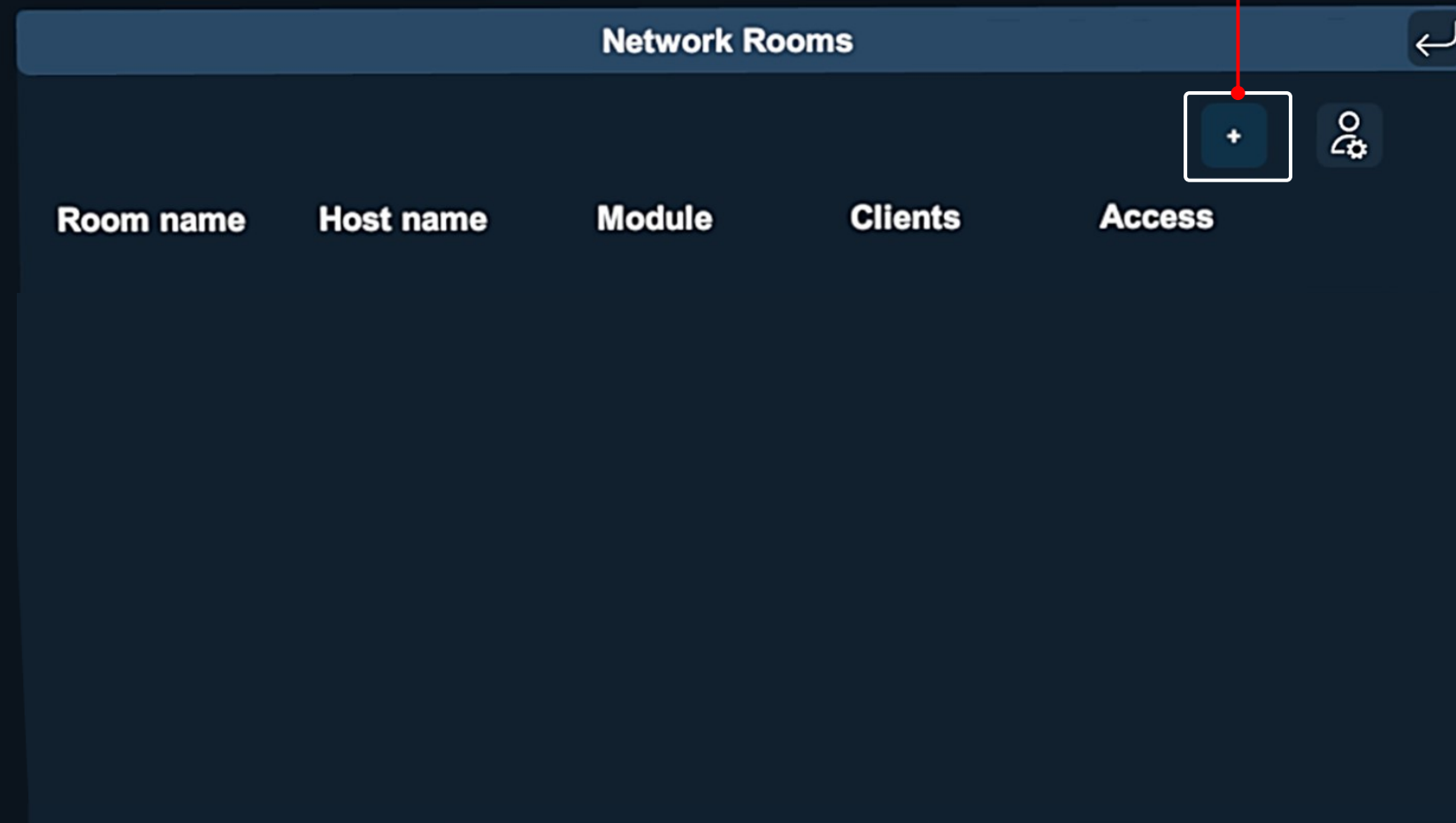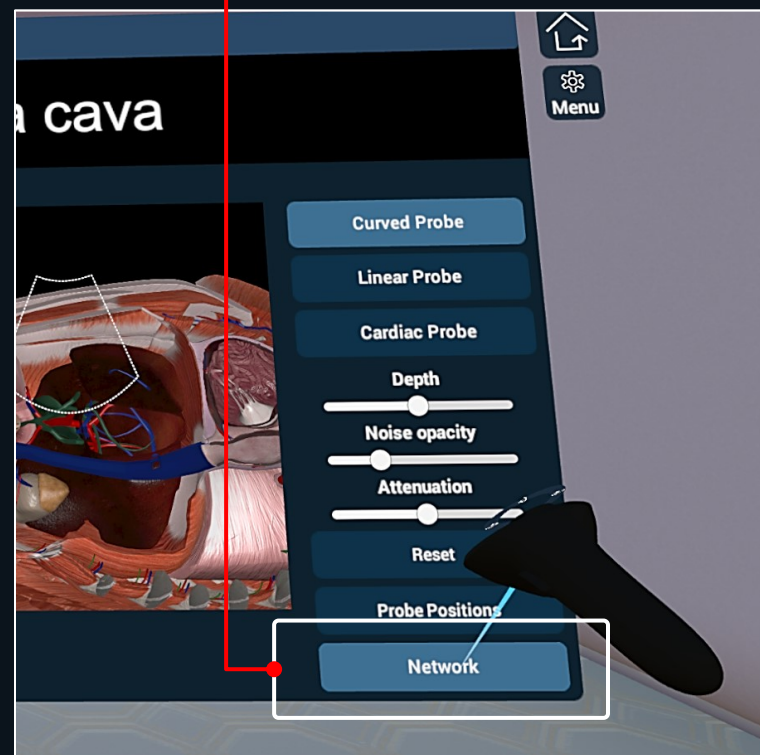
Remote Delivery / Medverse

15 Create a session

- Owners of the **Premium edition** are also able to create virtual rooms and host remote delivery training sessions. Other users with access to the internet can join a session from anywhere in the world.

  Click on the '**Network**' icon.

  Then, to create a room, click on the '**+**' button.

Enter the desired Room name, number of supported Clients, room visibility (Private/Public), and an optional Password.
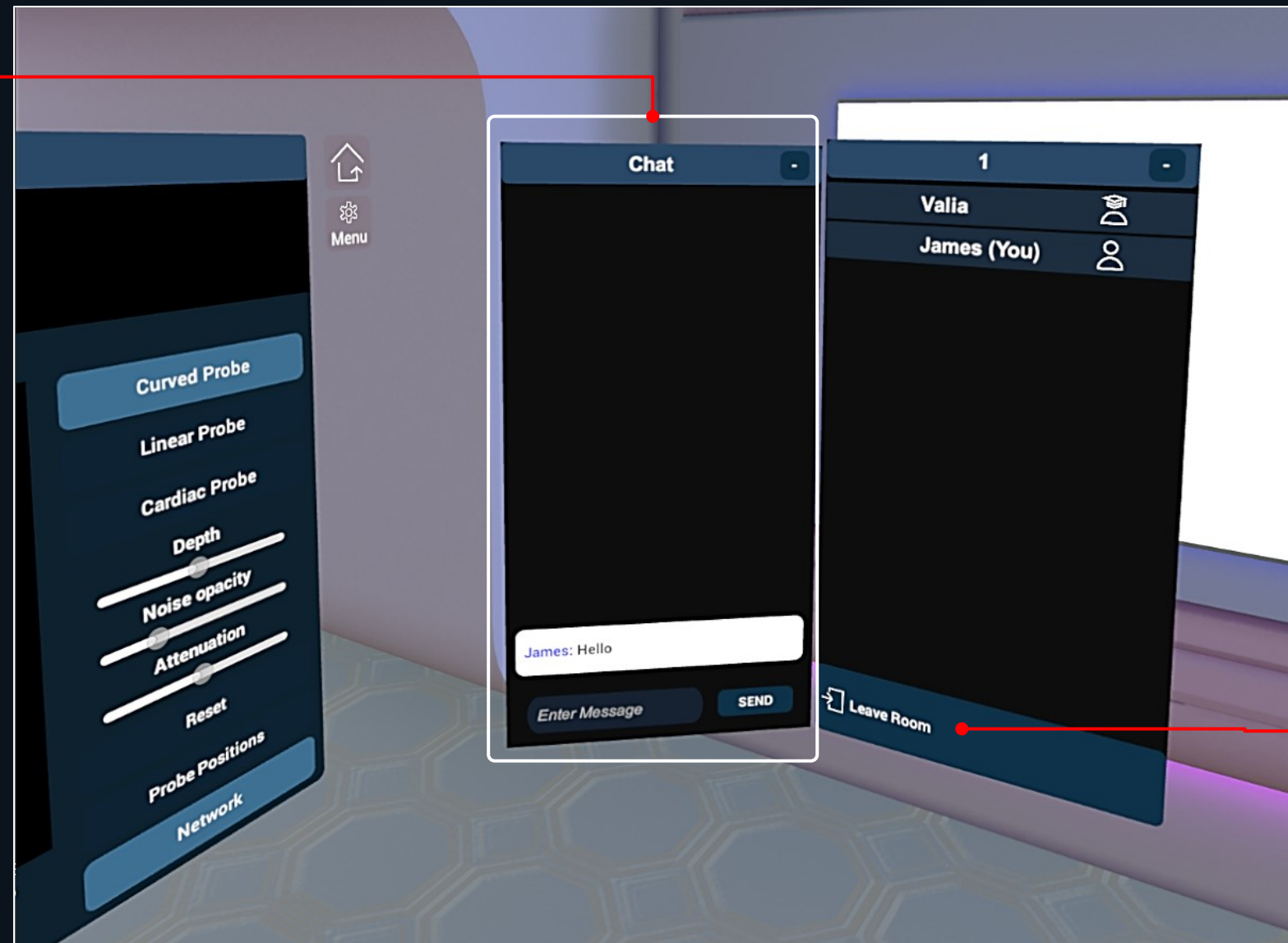Press the '**CREATE SESSION**' button to initiate your session.

Remote Delivery / Medverse

16 Inside the virtual room

Users can type messages and ask questions in the chat room.

To **exit the room** and return to the Lobby, press the '**Leave Room**' button.

17 Network Services Documentation

By default, the multi-user function in 3D Organon XR uses three essential services. These services include 3D models, voice chat, and text chat synchronization across users and educators in a virtual anatomy training session.

Ensure you allow the following ports and protocols for full access to 3D Organon networking services:
TCP: 843, 943, 4520, 4530-4532, 4540, 9090-9092
UDP: 5055-5058

Please ensure you allow traffic to and from the following domains:
**license.3dorganon.com**
def.3dorganon.com
download.3dorganon.com

Chinese clients need to white-list the following domain on their local network:
license-cn.3dorganon.com

Please ensure these ports are open in your router/firewall AND the firewall in your operating system (e.g., Windows firewall).
In case you are experiencing problems with either of these services, please contact the IT helpdesk in your institution. They will know your network infrastructure requirements and have access to modify firewall settings.
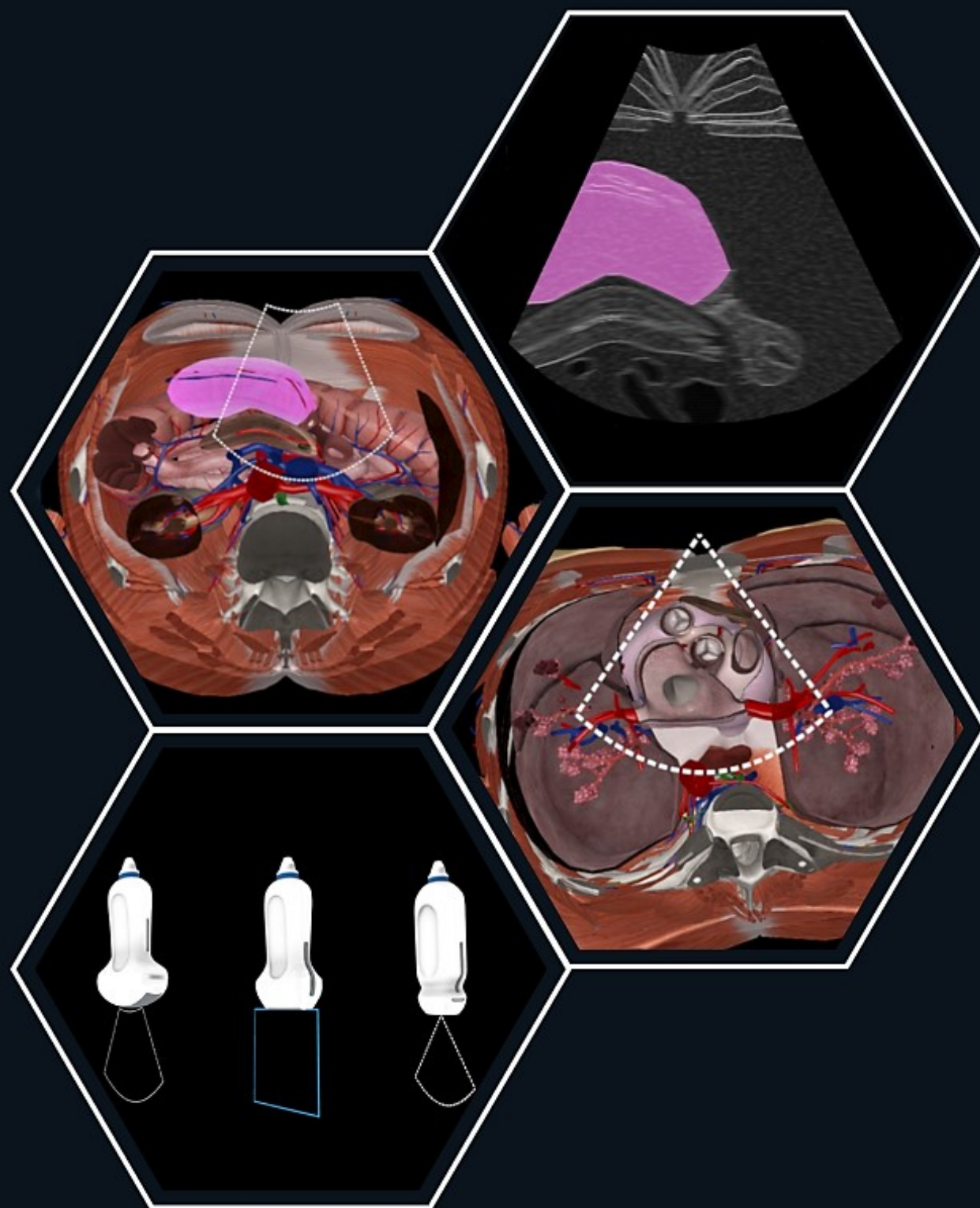
For any questions or feedback, please contact our Local Distributor
or reach us at: **support@3dorganon.com**

Check out our **Knowledge Base** for more information about 3D Organon, at any time!