



Teamworking in Paediatrics, Medicine and Surgery: An Immersive Technology Resource

User guide




Introduction

This guide will help you **make the most of the three Virtual Reality apps** and explain how to:

- **Access the apps**
- **Use the function icons** in the apps
- **View the apps**
- **Assemble the recommended Google Cardboard headset**
- **Set up your smartphone** for viewing the apps in the Google Cardboard headset
- **Position yourself** in the best way to enjoy the immersive experience
- **Deal with possible issues**
- **Preload the apps onto a Quest or Pico VR headset**

How to access these apps

To stream the 360 videos smoothly you will **need a good Wi-Fi signal**. All apps can be accessed **via a browser** on a **PC, tablet or smartphone** and you can use the **camera on any device to scan an app QR code** and select the URL to open it up. **Full transcripts** are also available.

App	URL	App QR Code
Paediatrics	<p>App https://bit.ly/3EcH9JQ</p> <p>Transcript https://bit.ly/3pq7rSN</p>	
Medical	<p>App https://bit.ly/3rlskRF</p> <p>Transcript https://bit.ly/3xS8q24</p>	
Surgical	<p>App https://bit.ly/3waFnG8</p> <p>Transcript https://bit.ly/3xWG4DL</p>	

How to use the function icons in the apps

You **interact** with the app by **selecting the function icons**. Here's a brief description of what they do.



The **Menu** icon takes you to the Main Menu area where you can jump directly to different sections by selecting its name. Only use this after you've seen or interacted with everything in a section.



The **Back** icon returns you to the previous section.



The **Forward** icon moves you on to the next section.



The audio or video for a section will usually play automatically. You can use the **Pause** icon to pause this.



The **Play** icon will play from the point it was paused and replay any audio that has ended.



The **Speak out** icon is a prompt for you to think about and speak out what you would say in a situation within the scenario.



The **Information** icon for a team member lets you find out more about them.



The **Patient** icon gives you access to more information on the current condition of a patient.



The **Clipboard icon** will bring up a patient's latest observation chart or notes about patients and possible actions to take.



The **Acrobat icon** is available under the Clipboard icon for an observation chart and will open a downloadable PDF version of this.

SBAR

The **SBAR** icon opens up an SBAR summary on a patient.



The **Stethoscope** icon opens up a video with the sounds picked up by a stethoscope.



The **Monitor** icon shows the current display on a patient's bedside monitor.

How to view these interactive 360 video apps



On a PC or tablet

You can view and interact with **all of the content** in a standard browser on a PC or tablet.

You drag the 360 picture around just as you can with other 360 apps like **Google Street View** to see everything in the resources **using your finger or a mouse**. **On a tablet** you can also **move the device around** to change the view.



On a smartphone with a Google Cardboard headset

Make sure that you **use a high-quality Google Cardboard headset with these apps** where you can **see all of the image** on the phone. We recommend your region or trust orders the quality flatpack **Panoramix VR V2S** headsets - <https://bit.ly/3HZMN4s>. Alternatively purchase a headset such as the **Destek V5**. With these headsets you **select a function by moving your gaze so that the circle in the centre of your vision is over its icon for a couple of seconds**. Full instructions on how to set up your phone are available later in this guide.



On a standalone VR headset such as the Meta Quest 2

Alternative versions of the apps let you make selections with the laser pointer of a controller within the **browser of a standalone VR headset** such as the **Meta (Oculus) Quest 2**, **Pico 4K G2**, **Pico Neo 3** or **Vive Focus 3** using the **Oculus browser** for the **Quest** and **Firefox browser** for **all other headsets** using these **shortened app URLs**:

Paediatric - <https://bit.ly/3rDCyxd>
Medical - <https://bit.ly/3pgXalt>
Surgical - <https://bit.ly/3I5hAwN>

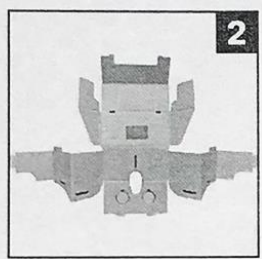
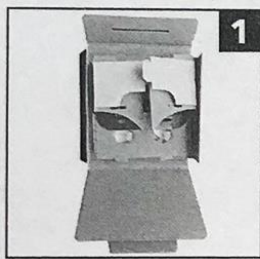


We recommend you **bookmark links in the browser** so you or others can quickly revisit apps. Select the **Google cardboard icon headset icon** to start the **full VR version of an app**.

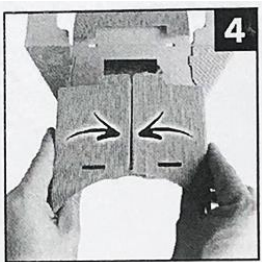
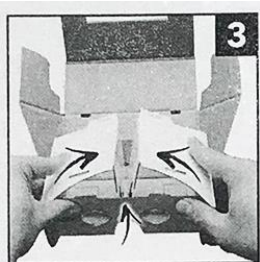
You can also view the apps on a **PC VR headset** such as the **Meta (Oculus) Rift 2** by first accessing them on the PC with a **compatible browser such as Chrome** and then **selecting the Google cardboard icon**.

How to assemble a Panoramix VR V2S Google Cardboard headset

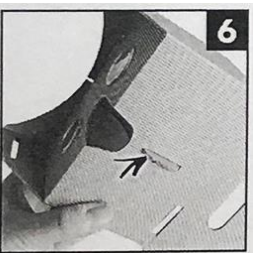
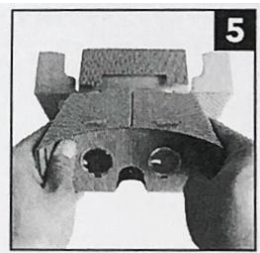
If your region or trust has supplied you with a Panoramix VR V2S Google Cardboard headset to view the app, follow these steps to assemble it:



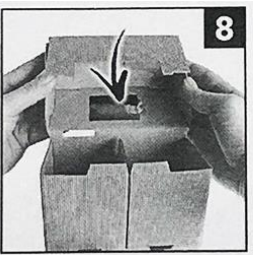
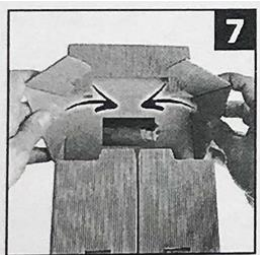
1. Open the headset flatpack.
2. Unfold the headset with the inside surface facing up as in the photo.



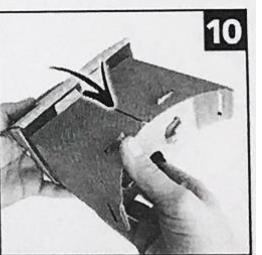
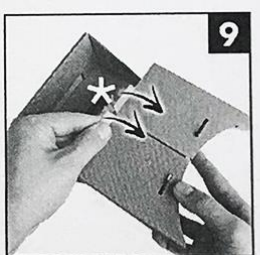
3. Lift up the side with the lenses. We recommend lining the nose arch with a plaster to make it more comfortable when resting on your nose.
4. Fold up each side to hold the lens surface in place inserting the tabs into slots at top and bottom.



5. insert the tabs on top of the lens surface into the slots above them.
6. Insert both tabs on the middle dividers into the central slot.



7. Fold up the back side panels folding down their top flaps as you do this.
8. Fold the rear panel over the side flaps to hold them in place securing the tabs into the bottom slots



9. Remove the sticky pad cover and position your phone on this central to the split in the Google Cardboard screen - see instructions in the next section on how to bring this up.
10. Fold up the rear section to bring the phone in line with the lenses and view the app in VR. Adjust the lenses if necessary to align with your eyes.

How to set up your smartphone for viewing the apps in the Google Cardboard headset

When **using the app on your phone** make sure that it is **fully charged**, with **Brightness turned up to 70% or more**, **Audio to 50% or more**, and **both Auto-lock (Lock Screen) and Orientation lock switched off**.

To view the experience on a **Google Cardboard headset**, access the app in the **phone's default browser**.



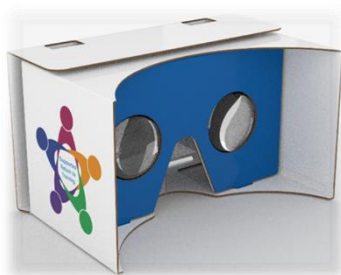
Select the **two eyed cardboard icon** on the bottom right corner. Refresh the screen if this doesn't work first time.

Use Default

Choose the **Use Default option** and then drag the screen up with the phone horizontal to show the split screen image.



Place the phone in the headset with the **middle line on the screen lined up with the centre** of the viewing area.



Close the phone **securely in the headset** and view the app through the lenses.

With a phone and Google Cardboard headset you **select a function by moving your gaze so that the circle in the centre of your vision is over its icon for a couple of seconds**.

How to position yourself in the best way to enjoy the experience



You **need to be able to turn your head and body freely** to view and select interactions when experiencing the app in Virtual Reality, so we **recommend you do this in a standing position with a chair or stool nearby** or seated on a stool or swivel chair to make it easier to turn around.

Some **people feel dizzy** or nauseated when experiencing VR. **To reduce this, sit down** and make sure you're in a safe place.

If you do find the experience unpleasant, **revert to using a computer, tablet or mobile phone without VR**. You will still be able to access learning and interaction points.

How to deal with possible issues

Google Cardboard icon can't be activated – make sure you are **using the phone's default browser such as Safari** on the iPhone. **Refresh the browser page**, change the orientation or close the browser and try selecting the icon again.

Can't select function icons with Google Cardboard headset on - With these headsets remember that you **select a function by moving your gaze so that the circle in the centre of your vision is over its icon for a couple of seconds**.

Google Cardboard split screen image isn't central on the phone – make sure you are using the phone's default browser. **Try refreshing the browser and selecting the cardboard icon again**, otherwise pull out one side at the back of the headset and move the phone to compensate for the off-centre view.

360 video sections won't play on an iPad or iPhone – unfortunately you won't be able to play the 360 videos in the app on older (e.g., Generation 5) iPads or iPhones. Use an alternative iPad, PC or smartphone instead.

How to pre-load the laser pointer versions of the apps onto compatible VR headsets

It is possible for a trust or other organisation to **preload the apps** into folders on a **Pico or Meta (Oculus) Quest 1 or 2 standalone VR headset** for users to access using the **3DVista app** following these steps:

1. Download the app zip file/s to a PC from these URLs:

https://hee-vr360.azurewebsites.net/support/teamworking_paeds_scenario_laser.zip

https://hee-vr360.azurewebsites.net/support/teamworking_meds_scenario_laser.zip

https://hee-vr360.azurewebsites.net/support/teamworking_surg_scenario_laser.zip

2. Unzip the files maintaining the folder structure.

3. Create a 3dvista folder on the headset and copy the unzipped app folder/s

Turn on the headset and **connect it to a PC** using a **USB-C cable**. A menu will appear on the headset screen asking you to **give the PC access** to the device.

Go to the **root folder** of the headset drive and **create a new folder** with the name '**3dvista**', then **copy the unzipped app folder(s)** into this folder.

4. Install the 3DVista (vr) app on the headset

On a Quest headset

Go to the **App Store**. Type '**3dvista vr**' into the **search field**. The app won't initially appear so go to the **App Lab** section below and select the **View App** button to make it appear in the list.

Select the **3DVista VR** application, then the **View details** button, and finally the **Download** option. The application will begin to download and install. Once the process is finished, select the **Start** button to start the app. A menu will ask for permissions to access the content of the device, select **Allow** to continue. The app **will show you all the tours** that have been copied to the headset. **Select one** to view it directly in VR mode.

On a Pico headset

Go to the **App Store**, select **Search** on the left side option bar and type '**3dvista**'. Select the **3DVista VR** app to show the details and then select **Download** to download and install the app. Once the process is finished, select the **Open** button and then **Allow** for permission to access the content. Select a **Teamwork app** to view it directly in VR mode.