

# photogra-VR

a natural VR headset for photographers

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## SUMMARY

photogra-VR is inspired by the usage of a camera, in both its form and presentation of natural materials. It brings together a stained oak finish contrasting a clean washi centerfold. The headset has the ability to be taken apart and compressed so it can be stored easily and for portability in travel. The camera style grip and strap allow for quickly switching between VR spaces and the real world.

## PERSONA

REUBEN CHEUNG

Reuben is a freelance photographer who recently graduated from post-secondary school. Reuben is struggling with money and lives in a small studio apartment. Despite that, he enjoys the outdoors and exploring the world to snapshot landscapes. Reuben needs a way to scout locations effectively while saving money on travel expenses. He wants to spend less time travelling and more on evaluating where he can take photos.



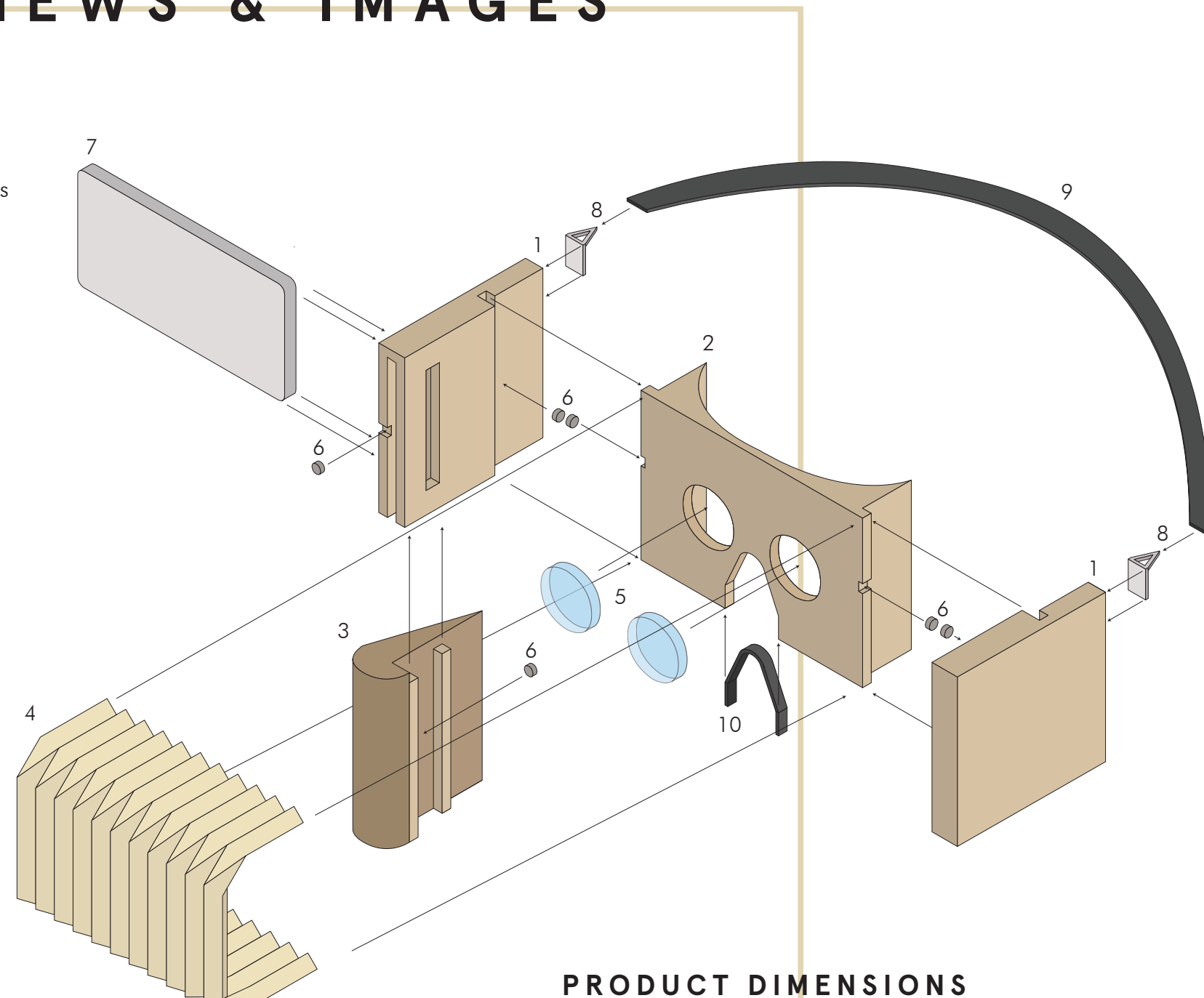
## CONTEXT



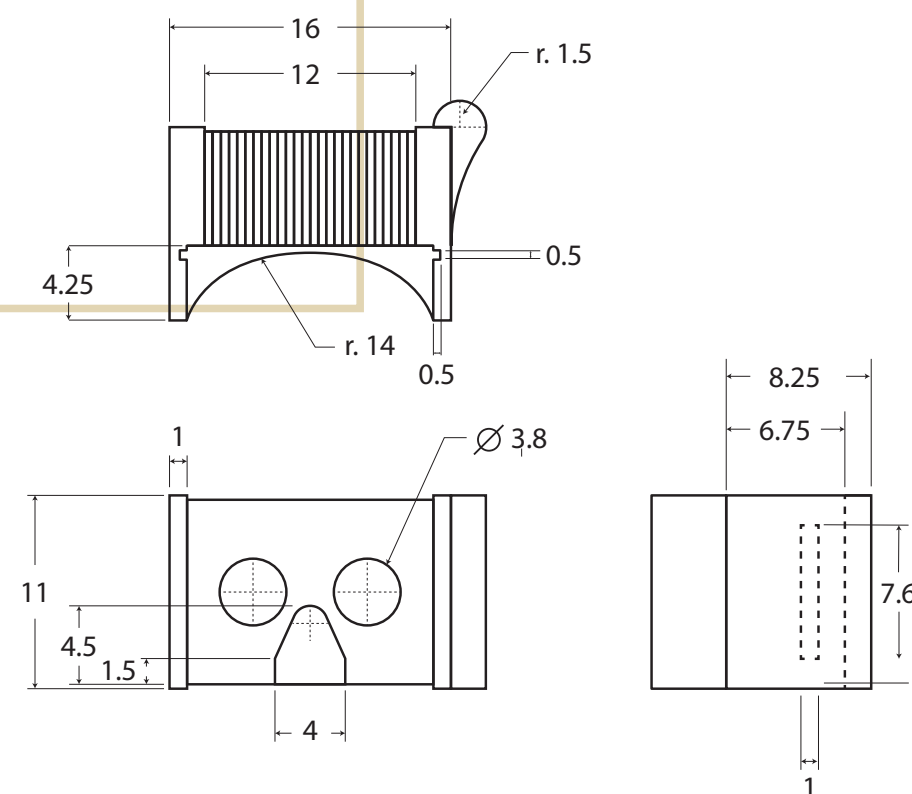
This headset promotes portability and more sporadic use of VR so it can be used in various settings, including studio apartments. The camera style form allows users to feel like they are aiming a camera in virtual spaces.

## PRODUCT VIEWS & IMAGES

1. LASER CUT SIDES  
provides base for phone and paper
2. LASER CUT FACE MASK  
provides structure and houses the lenses
3. HANDLE  
covers the phone slot opening and gives a better grip
4. WASHI PAPER COVER  
covers the phone while letting in ambient light
5. VR LENSES  
creates a VR view when used with a VR app
6. NEODYMIUM MAGNETS  
joins wooden components
7. PHONE  
screens the simulated world through a VR app
8. HOOKS/PINS  
joins the neck strap to the headset
9. NECK STRAP  
covers the phone slot opening and gives a better grip
10. FOAM PADDING  
better fit and texture surrounding the nose



PRODUCT DIMENSIONS  
measured in cm



RENDER



FINAL PRODUCT



## MATERIALITY

CEDAR WOOD

Cedar is a durable and lightweight wood that is resistant to cracking or warping. It has high thermal insulating properties providing a warm touch. These properties were key to choosing it as our material choice for the handle of the headset.



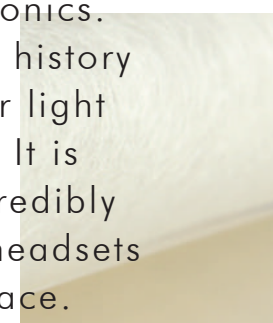
OAK WOOD

Oak is a strong wood with a clean, straight grain pattern. It's density provides a comforting warmth and a more natural look than some processed woods. It can be stained, providing a nice contrast to the clean look of Washi paper.

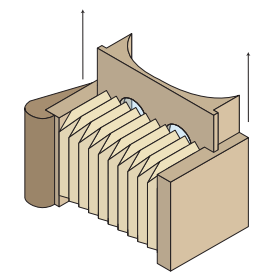


WASHI PAPER

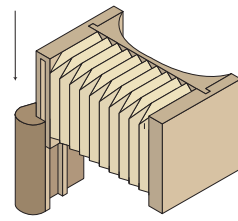
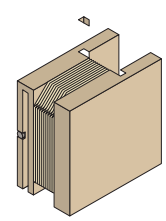
With naturally strong, durable, and water resistant characteristics, washi is a great option for electronics. Washi also has a long history as a go-to material for light and durable products. It is also non-toxic; an incredibly important trait as VR headsets are used near user's face.



## INTERACTION



Paper collapses and face mask slides off for portability.



Handle slides; covers the phone slot opening.



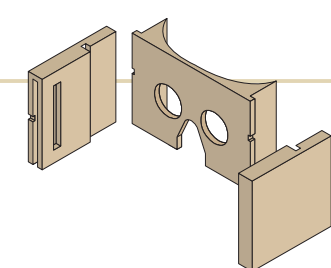
Handheld on the face using the handle.



Can be worn around their necks using the neck strap.

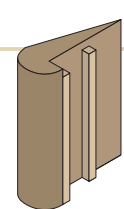
## FABRICATION

WOOD

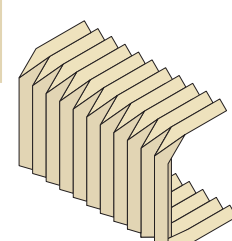


Laser cut and finished with a dark brown tea stain. All parts are fixed together using wood glue.

PAPER

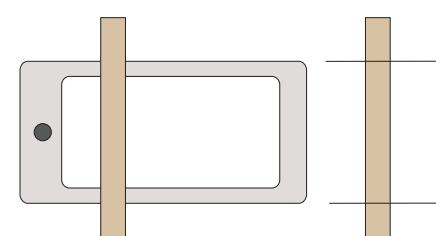


The handle is machine cut using a band saw; edges are rounded using sand paper.



Folded by hand, and attached to wood with glue.

## TECHNOLOGY



Smartphone is housed between the wooden slots for stability, with a handle that can slide on/off to cover the slot opening and prevent the phone from falling out. The phone will run a VR simulation app with photospheres of sceneries around the world.

## FORM/PROCESS

The form is heavily inspired by the use case for our photographer persona. The device has a camera-esque handle and strap to promote quick usage. The device also has detachable components to promote more portability with the headset.

