

# Appendices

## Appendix A: Interview protocol

### **About us and the project**

We're Alex, Karla, and Pleuntje, university students from UvA and TU Delft working on an innovation project for CERN's ATTRACT technology.

Thank you for participating in this short interview! It will greatly help our research.

### **Questions**

What are common safety standards that dentistry tools have to meet? Do you have any safety concerns regarding EyeDot?

Assuming the technology works as intended, how often would you use EyeDot?

Do you think that using EyeDot would save you time during check-ups? What about during surgeries or other procedures?

Would it be useful to have a feature that allows you to upload 3D models of teeth and displays them live while doing i.e., a reconstruction or surgery?

What would be the correct price for this product in your opinion?

How much would you be willing to pay for this product?

Is there any feedback you can provide in regard to EyeDot?

## Appendix B: Surveys

The survey we used for researching among people who will visit the dentist. The questions entailed information regarding the attitude of the use of EyeDot in dentistry and the willingness of surcharge payment. Also the two different images (A and B) are depicted, for every survey only one was used.

### *Start survey*

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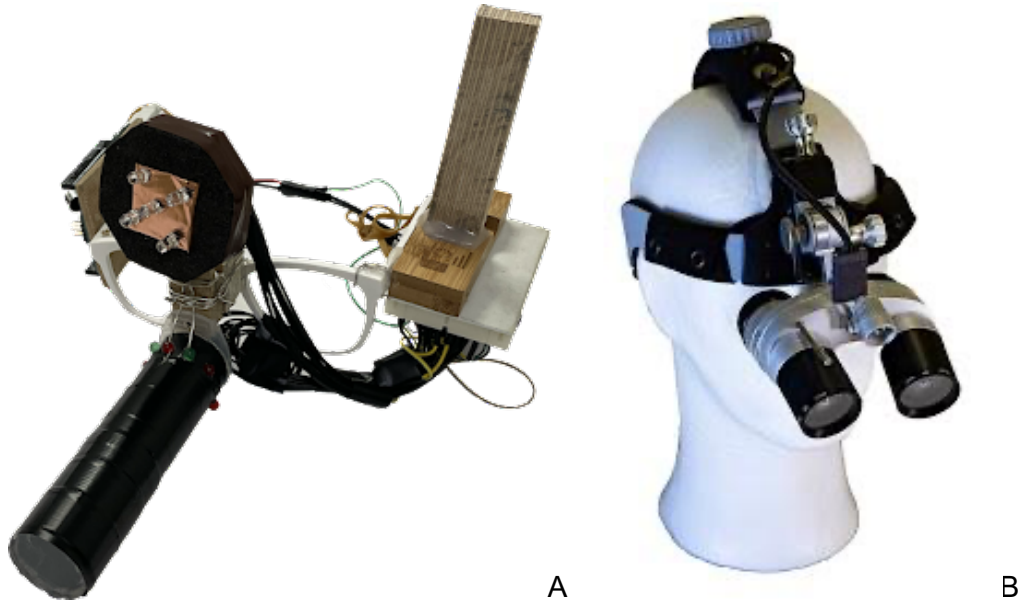
### **Current challenges in dentistry**

Dentistry is currently based on visual inspections with either the naked eye or magnifying glasses to diagnose and treat the patient's oral cavity. However, those techniques are time-consuming, and several problems can still go undetected. On top of this, dentists are often overbooked and overworked, which requires them to be as efficient as possible, especially in light of the backlog of patients due to the COVID pandemic.

### **EyeDot**

That's why we are introducing EyeDot: cavities and oral diseases can be detected **easier**, **faster** and more **precisely**. The glasses are based on CERN's ATTRACT technology and feature enhanced human vision as well as infrared vision. EyeDot also features **augmented reality**, allowing dentists to easily visualize patient information such as 3D models of teeth. EyeDot reduces the burden of having to use multiple tools while keeping dentists' **hands free**. More importantly, EyeDot provides all of this information in **real-time**, which is critical during surgery or implant procedures.

EyeDot



Which category below includes your age?

- 17 or younger
- 18-20
- 21-29
- 30-39
- 40-49
- 50-59
- 60 or older

What is your gender?

- Female
- Male
- Prefer not to say

What is the highest level of school you have completed or the highest degree you have received?

- Less than high school degree
- High school degree or equivalent (e.g., GED)
- Some college but no degree
- Associate degree
- Bachelor degree
- Graduate degree

Which is your country of residence?

How satisfied are you with your current dental healthcare service?

Very unsatisfied

- 1
- 2
- 3
- 4
- 5

Very satisfied

How comfortable would you feel if your dentist used EyeDot?

Very uncomfortable

- 1
- 2
- 3
- 4
- 5

Very comfortable

How important would it be for you to see through a monitor what the dentist is seeing?

Not important at all

- 1
- 2
- 3
- 4
- 5

Very important

How likely would you be willing to pay a surcharge if your dentist used EyeDot during a **check-up**? \*

Very unlikely

- 1
- 2
- 3
- 4
- 5

Very likely

How likely would you be willing to pay extra for the service of EyeDot during **surgery**?

Very unlikely

- 1
- 2
- 3
- 4
- 5

Very likely

What did you like the most about EyeDot?

What important features is EyeDot missing?