



GLASS
by Google

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Introduction

- The intended purpose of Google Glass would be the hands free displaying of information currently available to most smartphone users.



Overview

- Project Glass was started by Babak Parviz
- Glass is being developed by Google X Lab
- Use 4G technology
- Communicate with mobile phones through Wi-Fi
- Display content on video screen as well as respond to voice command of the user.

Technologies Used

- Wearable Computing
- Augmented Reality
- Smart Clothing
- Eye tap technology
- 4G technology
- Android technology

Wearable Computing

- Worn by the bearer under , with or on top of clothing
- Developed for general or special purpose information technologies and media development



Augmented Reality

- The basic idea of augmented reality is to superimpose graphics, audio and other sensory enhancements over a real-world environment in real time



Smart Clothing



- It is a combination of new fabric technology and digital technology.
- The clothing is made with new signal-transfer fabric technology installed with digital devices.

Eye Tap technology



- EyeTap is a device that is worn in front of the eye that acts as a eye to record the scene available to the eye as well as a display

4G Technology

- 4G is the fourth generation of cell phone mobile communications.
- 4G Technology is basically the extension in the 3G technology with more bandwidth and services offers in the 3G.
- This system provides mobile ultra broadband internet access with data rates of 300 Mbps

Android

Android is a Linux based operating system for mobile devices such as smart phones and tablet computers

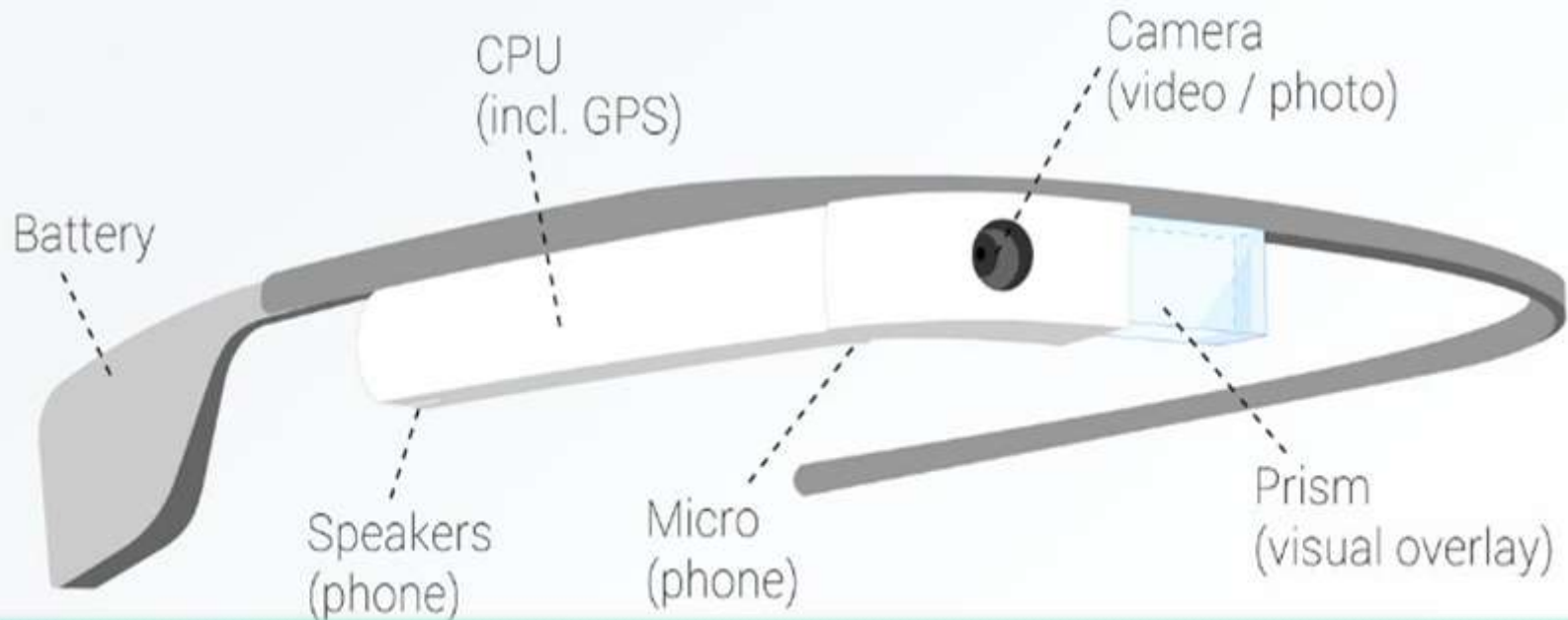


Working

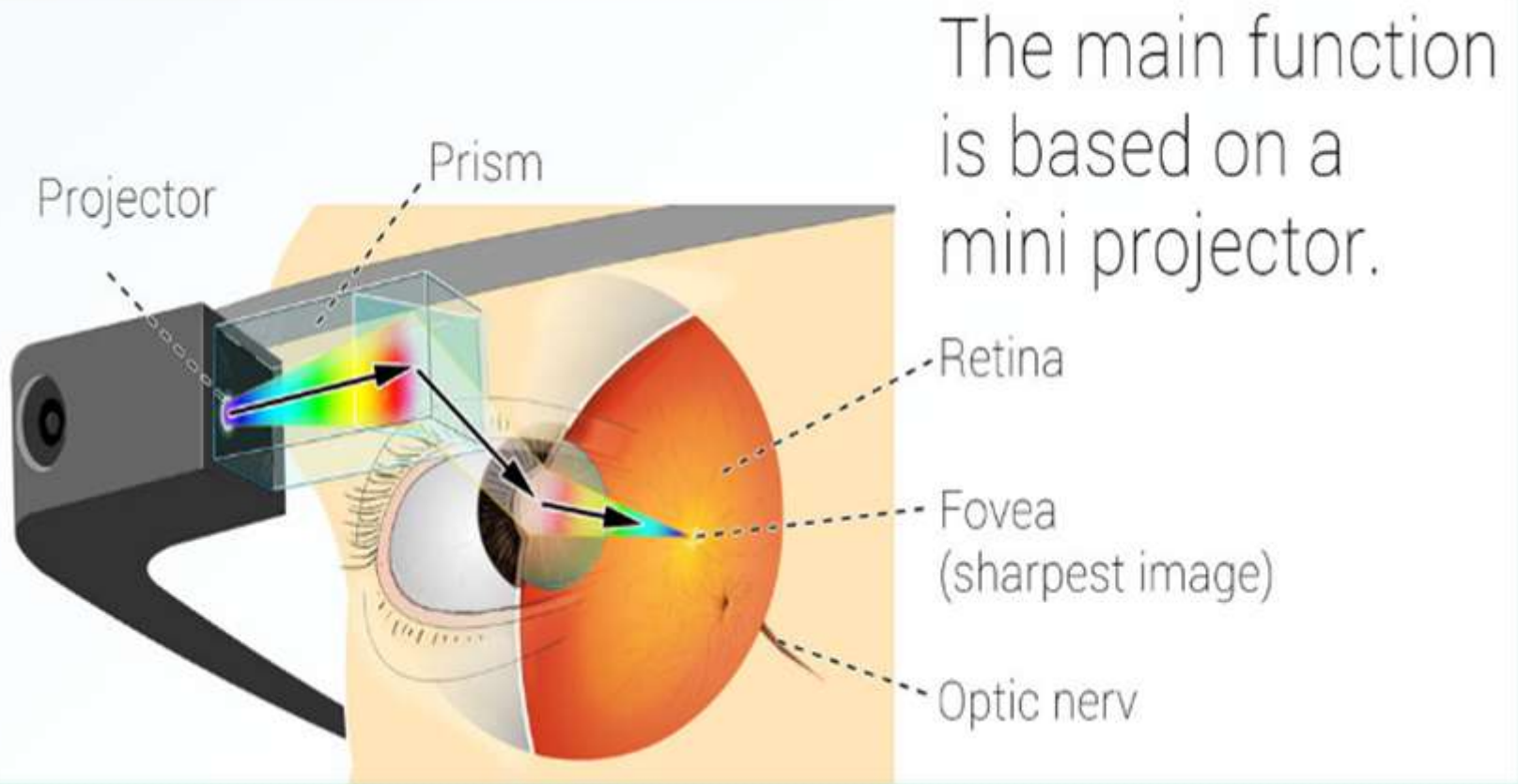
How Google GLASS works

Why can you see a sharp image?

Infographic by M. Missfeldt
www.brille-kaufen.org



Working(cont.)



Technical Specifications

➤ **Fit**

- Adjustable nosepads and durable frame fits any face.
- Extra nosepads in two sizes.

➤ **Display**

- High resolution display is the equivalent of a 25 inch high definition screen from eight feet away.

➤ **Camera**

- Photos - 5 MP
- Videos - 720p

➤ **Audio**

- Bone Conduction Transducer

Technical specifications(cont.)

➤ **Connectivity**

- Wifi - 802.11b/g
- Bluetooth

➤ **Storage**

- 12 GB of usable memory, synced with
- Google cloud storage. 16 GB Flash total.

➤ **Battery**

- One day of typical use. Some features, like
- video calls and video recording, are more
- battery intensive.

➤ **Charger**

- Included Micro USB cable and charger

The logo for Google Glass, featuring the word "GLASS" in a thin, sans-serif font. The letter "A" is stylized with a diagonal line through it.

Compatibility

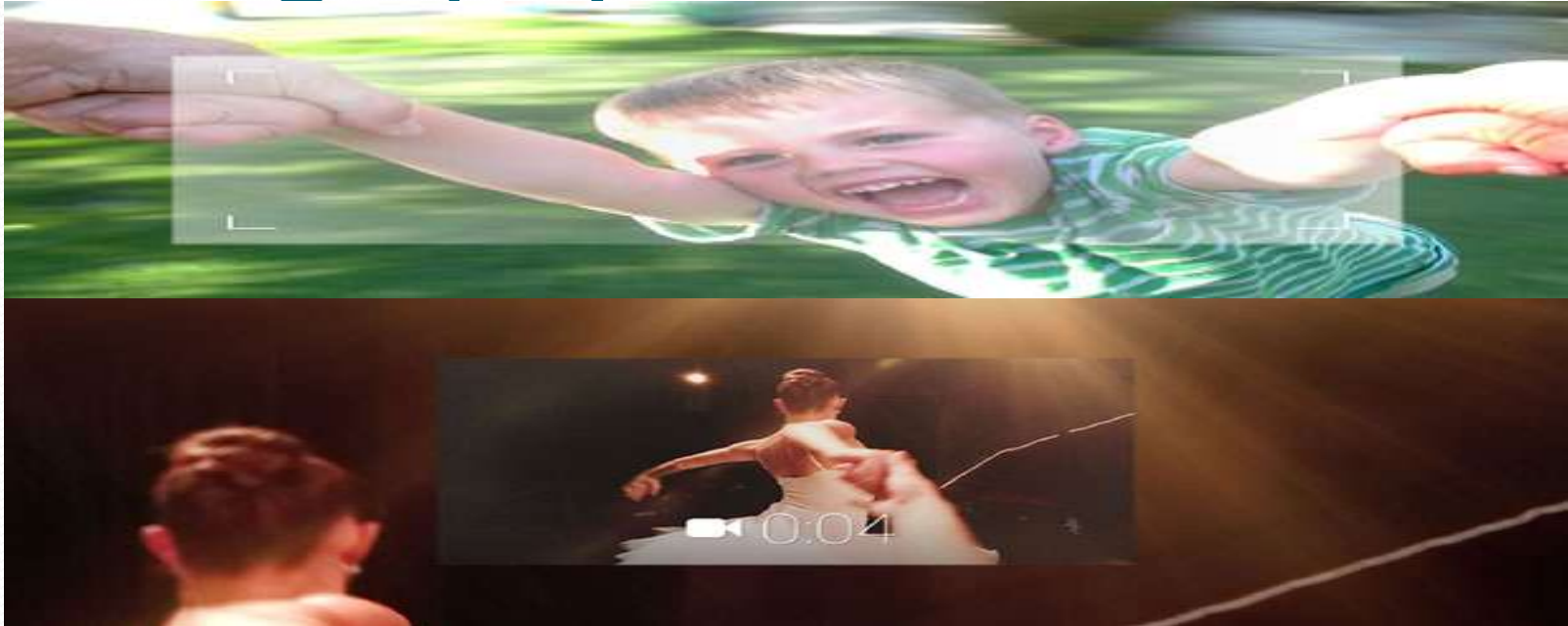
Any Bluetooth-capable phone.

The MyGlass companion app requires Android 4.0.3 (Ice Cream Sandwich) or higher. MyGlass enables GPS and SMS messaging.

Features of Google Glass

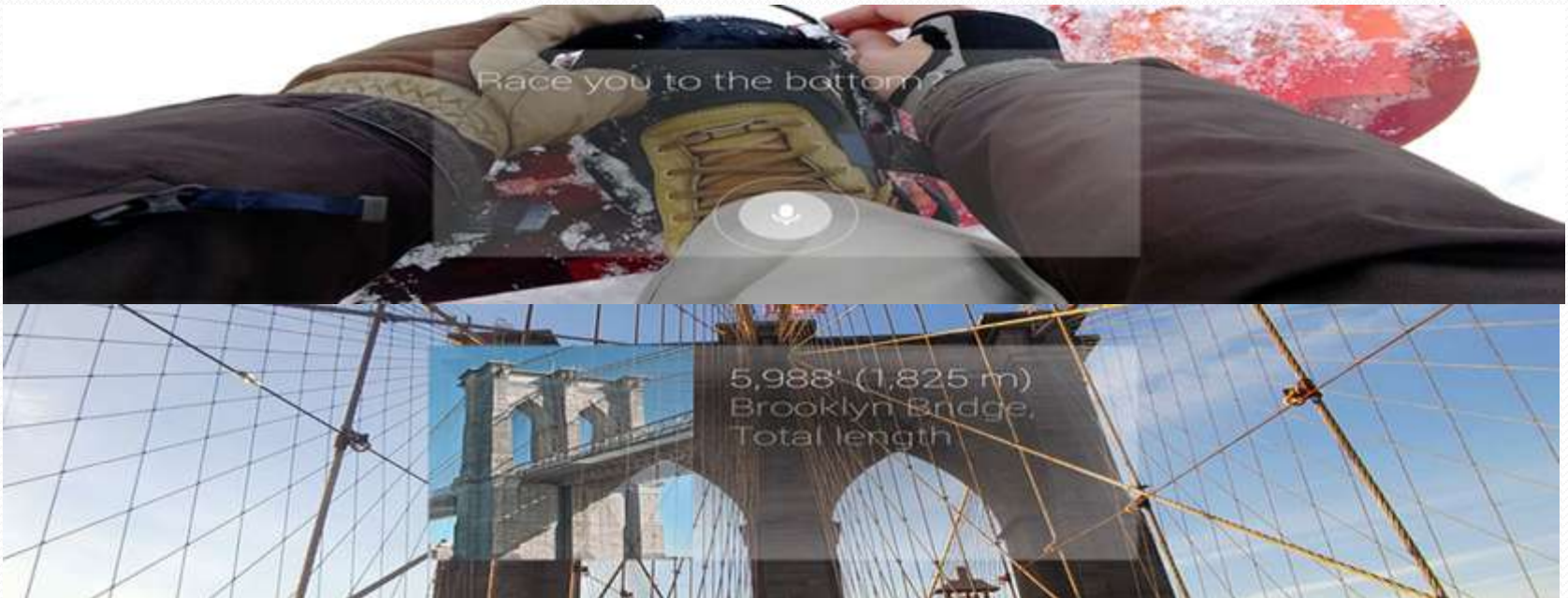


Photography and Video



- You just say word and Google Glass will take a picture or record a video.
- You will never have to touch the hardware.
- The photos and videos will be stored on the 4GB flash memory of the device, and can also be shared on social networking websites

Send message and Google search



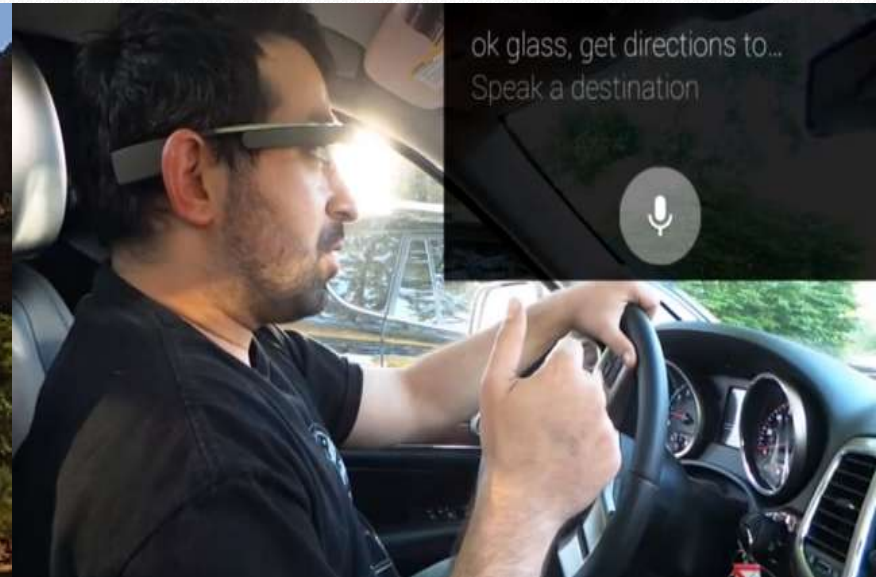
- Google Glass will show you text messages you receive and allow you to reply to them via voice commands.
- If you are in the habit of Googling things a lot. You simply need to ask a question and the device will pull the answer from the internet

Google translate



- Google Glass translate a phrase or sentence from one language to another .

Google maps



Lost? No problem, you have your very own super GPS navigating device to guide you along in the right direction.

Advantages of Google Glass

- Easy to wear and use.
- Sensitive and responsive to the presence of people.
- Fast access of maps, documents, videos, chats and much more.
- A new trend for fashion lovers together being an innovative technology.
- A spectacle based computer to reside directly on your eyes rather than in your pouch or pocket.
- A useful technology for all kinds of handicapped/disabled people

Disadvantages of Google Glass

- Can be easily broken or damaged. Users will have a tough time taking care of it.
- It may lead to accidents while driving.
- Privacy of people may breach with new glasses

THANK YOU