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ARTS 486
Project 1: As We May Rethink
Functional Specification
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## Scope

The Camera of the Future is a microscopic device to be worn in several different ways. The goal is to aid photographers, researchers and all users to quickly, easily and discreetly capture an image.

## Features

- Speed and portability
- Wireless & bluetooth connection
- Mobile smartphone app with adjustable functions, such as zoom, aperature, focus & day/night mode
- Automatic exposure
- Instant results via smartphone
- Easily printable

## Cost

Due to its size and features, the Camera of the Future cost would compare to a small device, such as AirPods within the $150-$300 range.

## Solution Overview

This microscopic camera will allow users to easily and discreetly capture an image, yielding instant results through a mobile app. Physical prints are to be easily made. Users will be able to capture images from unconventional perspectives with speed and ease.

## Physical Description

- 2x2in, square design
- Circular button to capture image
- Micro SD card reader
- Optional rangefinder glasses upgrade

## Technology

- Wifi & bluetooth
- Mobile smartphone app
- Video recording

## Requirement Specs

This device takes pictures and video recordings on a microscopic scale that can be enlarged to any size.

## Use Cases

Science Photographer

1. Find specimen
2. Adjust desired features via app
3. Get within rangefinder of specimen
4. Capture image via button
5. View results on mobile device
6. Transfer file or print

## Nonfunctional Specs

Device storage capacity in GB and RAM.