



CognitEye

CognitEye

is a **AI-powered** vision assistant system

An intelligent device that understands and describes the world to the blind and visually impaired people.

CognitEye comprised of a **cutting-edge AI-powered Android app** and a **wearable device**.

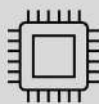
The **wearable device** of CognitEye is a "Single ear headset with camera".



Features



AI-powered



On-device AI *



Real time processing



Light weight headset

* Affordable ** no need to internet connection *** Preserving Privacy

How it works

1. CognitEye is activated by the user's voice command
2. The headset's integrated camera captures real-time video footage, which is seamlessly transmitted to the connected smartphone via a cable and USB-C connection.
3. The CognitEye app leverages advanced AI algorithms to analyze incoming video streams, extract essential information, and generate tailored responses to the user's requests.
4. These audio descriptions are then delivered directly to the user through the headset's built-in audio output.





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Functionalities

Using **on-device AI**, CognitEye have created new opportunities for enhancing the quality of life for the blind and visually impaired people.



Object
recognition



Scene description



Text recognition



Bus number
recognition



Read labels



Voice command

Compatibility and Requirements

The CognitEye app is compatible with most midrange Android™ phones with a USB-C port and runs on Android 11 or higher. We recommend smartphones with a Qualcomm architecture and integrated GPU.

Technical specifications of wearable headset

Detailed specification for CognitEye headset camera

Camera Sensor

- 1/4" CMOS
- Image pixels: 5.0MP
- Lens: 76 degree view angle
- Autofocus
- Picture format: MJPG
- Frame rate: 20fps / 25fps

Audio: embedded omnidirectional microphone

Audio Output: mono, 60Hz - 20kHz

Bluetooth: 5.0 version

Cable length: 120CM

USB Type: Type - C



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