

Innovative Ideas

Eye Control

The Eye Control is the first wearable, screen less, assistive communication device. AI-powered eye-tracking technology enables remote communication between ventilated ICU patients and medical staff via the nurse station. Eye Control can also improve the quality of life for Locked-in home care patients, by providing round-the-clock communication with family members and caregivers.

A head-mounted infrared camera tracks the eye movements and sends the information to a small processing unit which translates the movements into communication.

The bone conduction component provides audio feedback to the user before the communication is transmitted to the output speaker or connected Bluetooth device, all without the need for a screen. Once the headset is placed correctly, the user can begin communicating immediately. There is no need for a screen or external device.

Eye Control gives individuals more privacy - only they can hear the menu options before sending their communication to the output speaker. They have greater independence, and control and can maintain more awareness of their surrounding while still having the ability to communicate.



The picture shows a person wearing a head mounted camera propped in front of the nose and the processor unit sending signals to other devices through blue tooth.

<https://www.home.eyecontrol.co.il/product>