**JAPAN**

**Biomachine Industrial**

**INNOVATION**

ABOUT THE PROJECT

We proposed and developed a novel wearable interface system for visual extension triggered by BES(Bioelectrical Signal). This system magnifies the user’s central visual field according to his/her operational intention. When the user frowns, chews, squints and perform other facial gestures, sensors of the system detect BES that leak aroundan eye. The system estimates the user’s intention using the signal and operates zoom lens of a camera included in the system. Therefore, by using this system, the user is able to magnify the user’s present vision intuitively with hands-free, and experience visual sensation that is a significantly exceeded sight of an ordinary person.