Smart Eye Camera (SEC)

A certified Slit-Lamp medical device in Japan, a smartphone attachment which allows Ophthalmic examination only by the smartphone.

Unique and Innovative Features

1. **Smartphone diagnosis**
   SEC allows the outer camera of the smartphone to make an Ophthalmological diagnosis using its own light source. No need for the external battery or light source.

2. **Anterior eyes examination**
   Possible to make a diagnosis in any eyes. Clear slit-lamp image in the eyelid, ocular surface, conjunctiva, cornea, iris and crystalline lens. Diffuse illumination, slit-light (0.2~1.0mm) illumination, and blue light illumination.

3. **Equal performance compared to existing equipment**
   SEC is proven to have equal performance to the conventional professional slit-lamp microscope used in Ophthalmology clinics*.
   [https://journals.plos.org/plosone/article/comments?id=10.1371/journal.pone.0215130](https://journals.plos.org/plosone/article/comments?id=10.1371/journal.pone.0215130)

4. **Internationally Patented, Certified Medical Device in Japan, invented by Japanese Ophthalmologists**
   Internationally patented, an approved medical device in Japan, with some of the toughest regulations worldwide, invented through the wisdom of the OUI Inc. founded Ophthalmologists.**
   **13B2X10198030101

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Example Images by SEC

3 types of light (Slit/White-diffused/Blue-diffused) are available by utilizing smartphone camera and light source

Cataract (Slit-Light)
Corneal Transplantation (White-diffused Light)
Severe Dry Eye Disease (Blue-diffused Light)

Diagnosable Disease Portfolio

With its equal performance to the conventional slit-lamp microscope, almost all eye diseases of anterior segment of eye can be diagnosed

Epidemic Keratoconjunctivitis (Virus infection)
Allergic conjunctivitis
Dry Eye Disease
Infectious Keratitis
Cataract (Moderate)
Cataract (Severe)

Meibomian Gland Dysfunction
Keratitis Filamentosa
Avellino Corneal Dystrophy
Uveitis
Trachoma
Corneal Perforation

Principal Track Record in Japan

Keio University Hospital
Yokohama Keiai Eye Clinic
KOBAYASHI Pharmaceutical Co., Ltd.
Potential Use in Developing Countries

1. **Eye Camp for Cataract Surgeries**
   SEC achieves tremendous efficiency in outreach to identify the potential patients for eye camp for cataract surgeries. Also, it achieves tremendous efficiency in diagnosis for post-surgeries of eye-camp for cataract surgeries.

2. **Rural Clinics with Frequent Blackout**
   Even in the rural clinics with frequent blackout of electricity where the slit-lamp microscope cannot be used, doctors can keep diagnosing with SEC.

3. **Training for Doctors/Medical Staffs**
   Making it possible to share the same vision together, SEC works well for training scenes for Ophthalmologists/medical Staffs with less experience.

4. **Remote Diagnosis**
   With smartphone application video of the images of patients can be recorded easily and can be shared to ophthalmologists in the remote area.
ABOUT Us

OUI Inc. is a company founded by 3 Japanese ophthalmologists with the goal to overcome world blindness by combining their knowledge in the field with new ideas to push the development of healthcare.

Eisuke Shimizu MD, PhD
CEO, Co-founder

Graduated from Keio University School of Medicine. Major in Ophthalmology. Specializes in the dry eye disease. Established OUI Inc. in 2016 with Dr. Yazu and Dr. Aketa. Discovered problems of Ophthalmology in Vietnam during international medical support activities, invented and implemented the SEC as a solution. Project associate lecturer of Keio University School of Medicine.

Hiroyuki Yazu MD, PhD
Director, Co-founder

Graduated from Keio University School of Medicine. Major in Ophthalmology. Specializes in Allergy and autoimmune disease. Established OUI Inc. in 2016 with Dr. Shimizu and Dr. Aketa. A lecturer of Tsurumi University School of Dental Medicine. Director of the international Ophthalmology cooperation NPO Fight for vision.

Naohiko Aketa MD, PhD
Co-founder

Graduated from Keio University School of Medicine. Major in Ophthalmology. Specializes in Cornea disease and corneal transplantation. Established OUI Inc. in 2016 with Dr. Shimizu and Dr. Yazu.

Vision and Mission

Mission:
Leading the Growth of Medical Services
We will challenge to grow the medical services.
We will challenge to create the best healthcare scenes.
We will apply the doctor’s opinion and contribute to the medical development.

Vision:
To overcome 50% of the world blindness by the year 2025 with SEC
Blindness continues to remain a major problem worldwide. WHO announced that at least a billion people have a visual impairment that can be prevented or has yet to be addressed. Over half of these blindness incidents were caused by cataracts. We found that one of the major problems is that there is no diagnostic device in the areas where blindness is increasing.
To address this issue, we invented the SEC. We aim to contribute to overcome 50% of the world blindness by the year 2025 by spreading SEC and hereby provide proper eye-diagnosis to the patients suffering from access in medical services.
Academic Track Record

**Research Paper in English**

**Presentation in Academic Conference**

Media Track Record

Nihon Keizai Shimbun (the leading economic newspaper in Japan) 16th Jan 2020

Nihon Keizai Shimbun, 29th Jan, 2018
Medical Tribune, 30th Jan, 2018
Nikkei Digital Health, 31st Jan 2019 etc.

Contact Us

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