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SEE THE CHANGE

02

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## How AI is Enhancing Ophthalmic Clinical Diagnosis Standards Globally

Although sight is the key that unlocks how we learn and eventually work, millions worldwide are deprived these opportunities due to a lack of quality ophthalmic care. Trends such as increased life expectancy and modern lifestyle habits are all accelerating the spread of diseases such as diabetic retinopathy and leaving resource-poor countries' medical infrastructures struggling to cope.

To meet our world's ever-increasing demand for quality ophthalmic services, Orbis is now actively developing Artificial Intelligence's (AI's) untapped sight-saving and restoring potential. The ultimate aim is to ensure that people all over the world can easily access quality eye care. Bringing cutting-edge ophthalmological technologies to developing countries, our pioneering Cybersight AI initiative is an excellent example of how our efforts are measurably increasing the accuracy, efficiency, and accessibility of ophthalmic diagnosis and treatment.

### Enhancing the Accuracy of Ophthalmic Diagnosis

Before AI changed everything, doctors had little option other than to manually analyze fundus images, a time-consuming, error-prone process that was far from efficient when identifying smaller lesions. The fact that different doctors' experiences and diagnoses frequently differed further weakened levels of consistency, standardization, and ultimately surgical outcomes.

A clinical fundus image screening tool that detects common eye diseases within seconds, Cybersight AI's machine learning algorithms enable doctors to more accurately identify ophthalmic diseases during their vital early stages. Research shows that the technology's diagnostic accuracy is frequently over 90%, a significant increase over traditional techniques. Such early detections also enable timely interventions and so greatly reduce patients' risk of permanent sight loss.

### Improving Efficiency to Address a Large Number of Potential Cases of Blindness

Statistics show that almost 90% of visually impaired people are from low- and middle-income countries which are desperately short of world-class medical personnel and advanced examination equipment. As diagnoses in such countries are usually carried out manually, patients are forced to endure waits of many weeks and sometimes months for their results.

Enabling the instant uploading of patient details to a central database for automatic analysis and report generation, our AI automated patient screenings greatly enhance diagnostic efficiency. Delivering sufferers' results within minutes, the new system is reducing treatment turnaround times and reducing blindness caseloads in the countries where it is used.

### Extending Professional Ophthalmic Treatment to Remote Areas

As remote rural corners of poorer countries have few if any professional ophthalmologists, sufferers face long journeys to seek medical attention. Allowing any patient with a mobile phone or computer to obtain lightning-fast diagnosis and treatment suggestions by simply uploading their retinal images, our AI telemedicine platform is a real game changer.

Orbis is proud to play its part in ensuring that ophthalmic professionals in low- and middle-income countries have free access to such advances.

# Technologies that are Transforming Ophthalmic Treatments Worldwide



## Ethiopia Biometric Technology for Local Eye Care

Ethiopia has the world's highest prevalence of trachoma. In 2021, Orbis integrated biometric technology into our management of trachomatous entropion cases, reducing patient data retrieval from four minutes to just 24 seconds, more patients than ever before are now benefitting from diagnosis and treatment. The impressive end result is a huge step forward in combating neglected tropical diseases in impoverished areas.



## Vietnam AI NIDEK for Diabetic Retinopathy(DR)

DR leads to thousands of unnecessary vision losses in Vietnam. The reliance on manual image reviews by overworked staff in under-resourced ophthalmology departments contributes to an already heavy caseload. In July 2024, Orbis partnered with several leading Vietnamese medical institutions and providing free AI-enabled non-pupil-dilating ultra-widefield fundus photography. In addition to eliminating manual screenings and significantly reducing patient waiting times, the changeover has greatly improved screening speed and accuracy, resulting in timely referrals for over 14,000 patients.



## Bangladesh VR Training to Enhance Medical Skills

Cataracts are a major cause of blindness in Bangladesh, but very few local doctors perform surgeries. Orbis's VR and haptic feedback-capable technology provides realistic surgical simulations, enabling healthcare professionals in resource-poor areas to sharpen their basic cataract removal skills in a risk-free environment. In some regions, doctors trained on the system are now completing 30% to 50% more surgeries than before. Our next goal is to expand the VR-based treatment's horizons to cover specialities such as glaucoma and strabismus.

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## Flying Eye Hospital Blazes a Trail of Light in Rwanda

*These kinds of miracles don't happen every day. Thank you, Orbis volunteers and donors, for restoring my father's sight in his left eye and letting him see a brighter future.*

*Rwandan cataract sufferer Amiel's son, Boniface.*



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78-year-old Amiel has lived in darkness for many years due to cataracts. The condition has not only left him unable to work the family farm, but also perform routine tasks such as stepping outside the front door without help.

In July 2025, Amiel finally got to receive the help he needed to regain his independence with the arrival of the Orbis Flying Eye Hospital (FEH) to carry out one of our life-changing Programs. Having traveled many hundreds of miles across the 'Land of a Thousand Hills' to reach the plane, Amiel was placed under the expert care of the FEH Team and Orbis volunteer doctor, Dr. Samita Moolani. While quick, the surgery he underwent on his left eye totally transformed his life.

For the first time in years, the elderly man can walk confidently without assistance. Even more exciting is the knowledge that he can once again work on the family farm. "It's wonderful, I am so happy!", said Amiel.

Amiel is one of thousands of who benefited from Orbis volunteers' and donors' kindness and aid, but millions more still need our intervention. Home to some 13,000,000 people, Rwanda only has just 30 ophthalmologists; such a severe imbalance means cases of avoidable blindness are growing rapidly. During this Program, the 84th country our Flying Eye Hospital visited, we carried out a historic two-week training and arranged for patients to board the teaching hospital for screenings and surgeries.

While your backing has been helping, ongoing support is urgently needed to make quality and equitable eye care accessible to offset the wide gap in under-resourced communities, so that more patients like Amiel can receive the necessary care to thrive with the precious gift of sight! There are still so many waiting for the opportunity to receive the sight-saving care they need; Orbis sincerely invites you to join us to help more patients to reclaim their independence and hope for a better life with healthy sight. Please take action now!

Support: QR code





## Visually Impaired Yet Never Losing Sight of Her Dream

While glaucoma robbed Phoebe of half the vision in her left eye when she was small, it could not rob her of her dream of becoming a photographer. In 2014, she went on to join our Hong Kong office as a volunteer 'snapper'. Bangladesh, Mongolia, China and Rwanda are just a few of the countries in which Phoebe has captured sight-saving miracles via her camera lens. The memory that probably left the most profound impression on this intrepid young woman came when she and the Orbis Team had to scale mountains twice to reach patients in remote mountainous regions. She came home vowing never to forget how fortunate we Hongkongers are to enjoy such easy access to quality medical care.

Another lasting memory for Phoebe is of a young Nepalese girl with an eye disease. Despite their daughter's condition being easily curable, the girl's parents dismissed her need for treatment as "she would eventually

get married." Phoebe was stunned by the realization that far from being a personal problem, visual impairment is a society-wide cultural crisis encompassing educational levels and resources. Realizing the challenges she encountered in her career paled into insignificance compared to those patients' situations, Phoebe concluded, "But for an accident of birth, I would never have been able to achieve my dream."

This year, Phoebe joined several other Orbis donors in boarding the Flying Eye Hospital for the first time. Upon returning home after observing how the crew used onboard operations to upskill local doctors, she immediately signed up as a monthly donor herself. "While I've participated in many sight-saving missions, Rwanda truly taught me just how much support Orbis and its volunteers really need. If it weren't for donors' kindness, many sufferers would simply never see again."



### Support Orbis Monthly Donation Program

Join us in saluting the dedication and the profound impact monthly donors like Phoebe are having in changing needlessly blind lives

More details



## Orbis Friends and Orbis Kid Sight Friends Latest News

Orbis Macau is most grateful to continue to receive support from *Ying An Medical Center* and *Hong Kong's PolyVision Eyecare Centers*, offering our monthly donors - *Orbis Friends* and *Orbis Kid Sight Friends* - the exclusive Orbis price of MOP500 in Macau or HKD400 in Hong Kong for an annual comprehensive eye examination, which includes refraction testing, binocular coordination, color vision assessment, intra-ocular pressure, and ocular health examination! From now until December 31, 2026, our monthly donors can make good use of this offer for their important annual eye check-up. Advance booking is required and kindly remember to bring with you your 2026 membership card for verification on the day of the appointment. To make your appointment or for enquiries please contact the eye care centers directly:

📞 Ying An Medical Center, +853 2833 8836

📞 Hong Kong's PolyVision Eyecare Centers, +852 2866 9660

For more details, please visit: 🌐 [www.orbis.org/moeyeccheck](http://www.orbis.org/moeyeccheck).



# Action for Sight An Annual Major Advocacy and Fundraising Campaign

Every second Thursday in October is the celebrated "World Sight Day", a day designated by the World Health Organization (WHO) and the International Agency for the Prevention of Blindness (IAPB) to raise public awareness about eye health and care, as well as issues relating to preventable vision loss. In response to this important initiative of the eye care community worldwide, Orbis Macau has been organizing the annual "Action for Sight" (AFS) campaign since 2010 to promote eye health and care locally, while raising vital funds to sustain Orbis's sight-saving mission.

This year's edition of the AFS was held between October 9 and December 5, 2025. Through a series of promotional and community engagement activities, we were able to share helpful eye health and care information with the community, and at the same time raised essential resources to support Orbis' sight-saving and sustainable training programs. Activities included three fundraising and promotional street events, an Eye Screening Day, along with an "Myopia & Eye Health" information-sharing session and eye care health talk. Thanks to the generous and passionate support from our Ambassadors and donors, "Action for Sight 2025" was able to raise over MOP 580,000 to add to supporting Orbis's global effort to combat avoidable vision loss by advancing eye care through our sustainable ophthalmic trainings, in order to provide lasting help to safeguard sight to transform lives.

Orbis Macau extend our heartfelt gratitude to our three AFS Ambassadors, the many partners, various Government Departments, organizations, schools, volunteers, and all the donors for your indispensable support! Each donation, no matter the amount adds up to drive our endeavors to change the way the world sees!

## Koi Kei Bakery

Orbis sincerely thanks Koi Kei Bakery for their magnanimous support. Through a special charity sale campaign of its famous "Almond Cookies", Koi Kei Bakery donated all its proceeds from the event to different worthy causes, and Orbis Macau is honored to be one of the five beneficiaries. Thankful to have received a generous MOP 200,000 of invaluable donation to support Orbis's global sight-saving programs and sustainable training to build capacity of eye care teams in low- and middle-income countries, where eye care is often scarce and at times unavailable! The campaign continues, please support Koi Kei Bakery to aid in making the necessary care available to more visually impaired patients in need!



Orbis Macau would like to extend our heartfelt appreciation to our 2025 Action for Sight Partners:

### AFS Ambassadors:



### Supporting Organizations:

Aomi APP \ Macao Astronomical Society, Macao Eye Care Association, Macao Science Center and Ying An Ophthalmic Medical Centre

### Media Partners:

Exmoo \ Macau Cable TV \ Macau Hotone Media, Ltd. \ The Macau Post Daily and Va Kio Daily

### Top Five Organization Fundraisers:

- 1st: Sands China Ltd
- 2nd: BOC Macau
- 3rd: CTM
- 4th: Wynn Resorts (Macau) S.A.
- 5th: SJM Resorts, S.A.

### Top Three School Fundraisers:

- 1st: Santa Rosa de Lima English Secondary School
- 2nd: Hou Kong Middle School
- 3rd: University of Macau

## Orbis Mid-Autumn Charity Sale

Orbis is thankful to Kee Wah Bakery and renowned illustrator "Ding Dong" for once again supporting Orbis's Mid-Autumn Charity Sale! Their participation continued to make the celebration of this traditional festival extra meaningful!



Over the course of the charity sale, we received much appreciated backing from the community, and kind sales support, including Santa Rosa de Lima English Secondary School for hosting a charity sale in their campus, as well as 文記養生堂, all of which had allowed for over MOP 700,000 to have been raised. While our supporters purchased the delectable goodies as gifts and enjoyment with families and friends, their celebratory gestures have been enabling Orbis with necessary resources to deliver much needed sight-saving programs and sustainable training in vulnerable communities.

# Myopia and Eye Health

Through close collaborations with different supporting partners, Orbis endeavors to raise awareness about the importance and impact of eye health and care, while strengthening the public's understanding of global vision impairment and avoidable blindness issues.

Annually, as part of the advocacy component of the *Action for Sight (AFS)* campaign, and with the aim to encourage the public to *#LoveYourEyes*, a common eye condition will be highlighted to present the public with helpful information, and alongside an online quiz to provide a platform for the locals to find out how well they know the condition, and at the same time, ensure they become more informed to better look after their eyes and that of their loved ones. Myopia, the world's most common eye condition was selected for 2025AFS, and the "Myopia and Eye Health" online quiz made available. Being an irreversible eye condition, Myopia has become the most concerning, with approximately 30% of the population affected, particularly with the prevalence of young patients rising - a prominent research from 2023 indicated that about one in three children worldwide is myopic, and this rate is projected to increase significantly by 2050.

Thanks to Ying An Medical Center and the Macau Eye Care Association, data from the quiz was analyzed, revealing over 70% of respondents are myopic. And notably, more than 80% is not in the habit of getting their eyes checked on an annual basis. Although majority has a basic understanding about myopia, misconceptions and uncertainties remained, including

over 60% is unsure whether laser surgery would cure myopia. The findings and other useful information were shared on December 5 at the eye care and health talk presented by Dr. Lo Peng lok from Ying An Medical Center, which was held at Edu+ City in Taipa alongside an eye screening day. At the session, Dr Lo further explained about the physiology behind myopia, factors influencing causes and its worsening, actions that could help to delay or manage the condition, and how high myopia poses risks to the development of other serious eye conditions. Through these initiatives, we hope more people will learn to adopt healthier eye habits, including getting adequate rest, reducing screen time, and increasing outdoor activities and adding an eye examination to your annual health regimen - after all, we only have one pair of eyes to last us a lifetime, take good care of them!! For more information on the Health Talk, please visit our website.



## Eye Health Tips



Regular Eye Check



Wear proper eye protection during risky activities



Do NOT rub your eyes



Sufficient light when reading



Manage your screen time



Remember to use eyecare gear during outdoor activities



Eat a healthy diet



Follow the 20-20-20 rule to give your eyes screen breaks

### Orbis Red Packet Charity Sale

Orbis has the pleasure to introduce an attractive set of red packets for the popular Red Packet Charity Sale. This year, with the theme of “Joyful Blessings” the design of the red packets incorporated traditional elements, alongside with the iconic inclusion of festive messages in braille on the back of the charity red packets, to present auspicious and sincere greetings, as well as warm wishes of good fortune amongst families and friends - making the *tradition of red packets giving* extra meaningful - while spreading the hope of healthy sight to those in need!

Featuring four designs, the “Joyful Blessings” charity red packets set are priced at MOP 100 each; with three red packets per design, the set includes a total of 12 red packets, a festive firecracker magnet and a practical larger red packet.

While stock lasts, these are available for order online at <https://orbismacau.shoppoint.mo/> or purchase them directly at the Office of Orbis Macau or at one of the four Macau Ticket’s Ticketing Offices! Support the Orbis Red Packet Charity Sale and join us to make the propitious custom of red packets even more so for you,



the recipients of the red packets and the visually impaired patients of who will be aided through the sight-saving programs made possible by your support!

### 2026 Marks the 20th Anniversary of Orbis Macau!

We are excited to announce that to commemorate Orbis’s 20th year in Macau, since its last visit in 2016, the Orbis Flying Eye Hospital will be returning in September to carry out a special mission! For the first time ever, a FEH Simulation Training Program will be held in our city of which will be for eye care teams from Orbis’s partnered hospitals in China, enabling them with the skills and know-how to provide necessary sight-saving aid in rural China. As well as the much-anticipated Goodwill Tour. Look out for the latest communications with updates on this memorable event!



## COMMEMORATIVE PROGRAMS FOR DIFFERENT CELEBRATIONS



**Wedding Donations & Favors**

Making a wedding celebration extra special, by signing up to the Orbis Wedding Commemorative Program! As you gaze upon each other and celebrate your love, help transform the lives of those in need, so that everyone will have the chance to see the love of their lives!

- Donate \$3,800 or more, and receive a pair of adorable Orbis Bride and Groom bears, and a framed certificate to mark the start of the new chapter of your lives together as Mr & Mrs!



**Charitable Birthday Celebrations**

Wishing to double the love and blessings of your own birthday or that of someone dear to you? Sign-up to the Orbis Birthday Commemorative Program and make the celebrate extra meaningful by giving the precious gift of sight to those in need. Donate or organize charitable birthday party and encourage your guests to donate to Orbis in lieu of gifts.

- With donation of \$880 or more, receive a cute Orbis bear, and a framed certificate to honor the birthday celebrant!



**Graduation Celebration**

No matter the age, as your loved one or friend graduates and embarks on the next phase of their life, consider honoring their achievement with a gift that holds extra significance. Choose the Orbis Graduation Commemorative Program to mark this important occasion, giving the gift of sight in the graduate’s name to change the lives of the individual helped, along with his/her families and communities.

- Celebrate the graduate by donating \$880 or more in his/her name, and receive a Seymour bear, with a graduation doll holding a handcrafted sunflower—symbolizing joy and new beginnings—and a personalized certificate.

Interested in making a celebration or special occasion extra meaningful? Please contact Orbis Macau at +853 2830 0787 to find out more.