

**HOYA SURGICAL OPTICS announces the start of nationwide sales of HOYA MW10 HiKARI, a Wearable Eyeglasses-type Device for Night Blindness Sufferers to Aid the Vision in Low Light Conditions, from November 2018**

HOYA SURGICAL OPTICS(hereinafter “HSO”) has developed a wearable device, “HOYA MW10 HiKARI”, aiming at supporting dim-light vision of patients with night blindness, and has been selling it since spring in 2018 in limited areas. HSO will expand the sales areas to nationwide from November, 2018.

“MW10 HiKARI” is an eyeglasses-type wearable device and projects the images captured by their proprietary low-light high-sensitivity compact camera on an organic EL display screen in front of the wearer’s eyes as a bright visual image.

The biggest characteristic of this device is its ability to re-create the natural color of an object since, unlike infrared cameras, it amplifies faint lights in dark places.

In addition, HOYA’s light-shielding lens is included in a standard package in consideration of protecting the wearers’ eyes and ensuring the comfortable view of display. There are 5 color variations in the light-shielding lens, which allows users to select the optimal color for them. Users can also select their favorite color for the eyewear frame from a choice of 5 colors. The recommended retail price is 395,000 yen (base color; excluding consumption tax).

Based on the contract research by Kyushu University implemented in 2016 and the monitoring of patients having symptoms of night blindness, HSO has developed and commercialized the product.

The sales of the product has started from spring in 2018 in the limited areas including Tokyo, Osaka-Kobe and Fukuoka areas. And now, it is expanded to nationwide as the sales network is completed covering the entire country, from Hokkaido to Okinawa in November, 2018.

Yasuhiro Ikeda, Associate Professor, MD., PhD. of Kyushu University who conducted the clinical tests using the prototype of the device stated as follows: “Night blindness is a symptom that affects a person’s daily life, along with loss of visual acuity and narrowing of the visual field. Many people who have this symptom often experience restriction in daily life by their scope of activities narrowed especially from early evening to at night. The scotopic-vision-support eyewear that we have developed jointly with HSO utilizes the principle of projecting the images shot with the camera developed for this project, on a see-through display, and show bright images in the dark. I am expecting that this device will improve the quality of life (QOL) of people who suffer from night blindness.”

Kentaro Doi, President of Tokyo Sub-society of the Japanese Retinitis Pigmentosa Society, who uses this device says, “I am convinced that this product will bring about benefits beyond imagination to patients who suffer from night blindness.” Amane Okada, Director of service department of Nippon Lighthouse, a social welfare corporation that has been marketing the device as part of limited sales, says, “I believe this is a breakthrough device, allowing users to see the images brightly in color even in dark places.

We recommend that, to get used to the device, people practice using it first before wearing it.”

As of the beginning of November, 2018, the device is handled at 24 stores or facilities all over Japan and the sales network is planned to be expanded further.

HSO plans to display the device at our exhibition booth during the Sight World 2018 (event for people with visual impairment) to be held on November 1-3, 2018 at Sumida Industry Hall.

For enquiries regarding this product, or stores/facilities handling this product, please visit <https://hmwpj.com>, or contact HOYA MW Call Center (0570-003-487; Weekdays from 10:30 to 17:00).



"HOYA MW10 HiKARI"  
The actual device comprises a set that includes the headset shown in the image and a controller.

### About HOYA

Founded in 1941 in Tokyo, Japan, Hoya is a global med-tech company and the leading supplier of innovative high-tech and medical products.

Hoya is active in the fields of healthcare and information technology providing eyeglasses, medical endoscopes, intraocular lenses, optical lenses as well as key components for semiconductor devices, LCD panels and hard drives.

With over 150 offices and subsidiaries worldwide, Hoya currently employs a multinational workforce of 36,000 people. For more information, please visit <http://www.hoya.com>.

HOYA SURGICAL OPTICS is a division of the HOYA Group that develops, manufactures and markets intraocular lenses—artificial crystalline lenses that are inserted into the eye following removal of crystalline lenses that have become cloudy due to cataracts.

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