Advanced Technology

Providing new value based on optical technology

We have been introducing game-changing products in the field of surveying and ophthalmic instruments for 90 years since its foundation.

Since the mid-1990s, various M&As and alliances with overseas companies have taken place to acquire various technologies. We provide leading-edge and unique products and solutions such as automation of construction process, automation of farm operations, and eye disease screening in familiar places other than ophthalmology (offered in countries excluding Japan) through the integration of proprietary developed technologies and newly acquired ones. We are highly acclaimed with advanced technologies.

In order to achieve our mission to solve societal challenges in healthcare, agriculture and infrastructure, we will continue to push the envelope and develop disruptive technology.

Satellite System) technology

reliably captures signals from all positioning satellites. This includes not only GPS and GLONASS, but also QZSS and Galileo and others. In order to realize high-speed and high-precision positioning, it is equipped with a 452 channel reception capability, enabling highly sensitive and stable reception. With positioning accuracy of several millimeters, it is widely used not only for surveying but also for civil engineering



Optical sensing/ Applied optics

The distance measurement technology

used in surveying instruments realizes accurate measurement to the

millimeter, by precisely measuring the time of the laser beam transmitted

Topcon

operations.

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New value creation "Sensor to Al"



Optical design

We possess lens design and thin-film technology, which are the backbone of sensing technology for "Sensor to AI". Our optical design optimizes the entire optical measurement system. We leverage special thin film coating technology, mass production technology, and special processing technology to create highly advanced optical sensors.



Thorough examination of 3D fundus



3D OCT (Optical Coherence Tomography) is the culmination of optical sensing, optometry, and image processing technologies, and we were the first in the world to bring this to market. In addition to conventional fundus camera functions, we have developed a new technology that instantly reflects the microscopic 3D structure of the fundus, opening a new era in ophthalmic examination and diagnosis. Some of the models can capture high-resolution images of not only the retina but also the vitreous body and choroid, and is widely used for research on the degree of disease progression and disease mechanism.



i's Value Cr Me from the CEO

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