

FIELDNavigator

Eye-Tracking Perimeter



Optimising visual field examination

About Us

Rex + Max = Rexxam

Rexxam, which means 'the king of the kings', is a respected and reliable brand.

Rexxam is a Japanese company with a celebrated 60 year history. With over 3,000 employees worldwide, Rexxam manufacture a wide range of products for various industries; from factory automation, automobiles and air conditioning systems, to beer and ski boots.

Since 1986, Rexxam has manufactured various high quality products for leading brands in the eye care industry, including SHIN-NIPPON. Rexxam had developed and manufactured products for SHIN-NIPPON since 1993 and in 2014 the company took over the SHIN-NIPPON brand.

We will be bringing high quality ophthalmic equipment to a global market. By combining precision engineering with industry leading innovation and experience in mass production, Rexxam produce unique products to support eye care specialists across the world.

Quality in vision care, we are Rexxam.



Proudly  Made in Japan

Message from Engineer

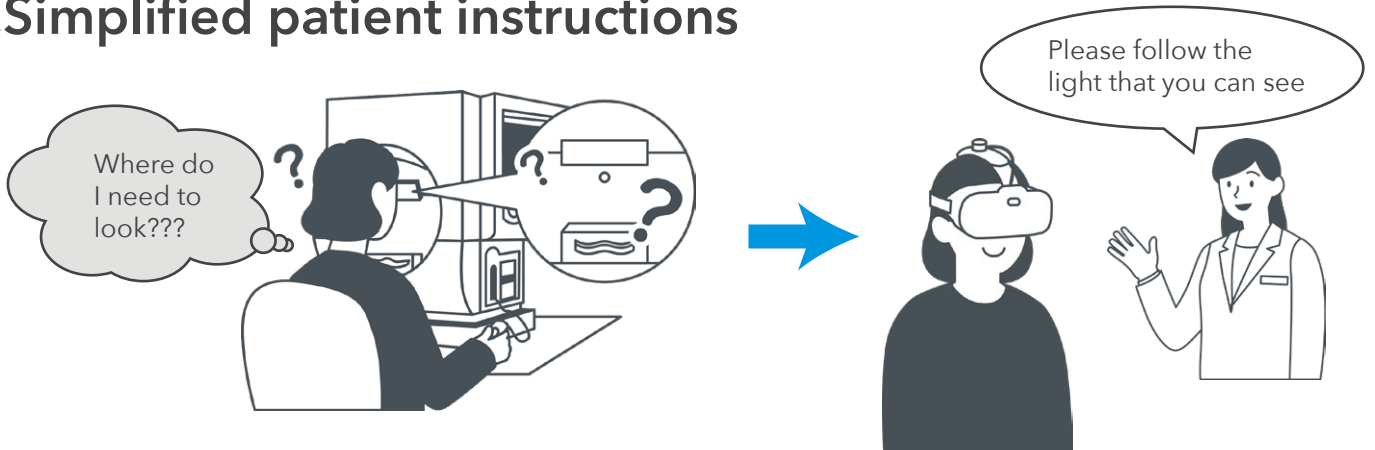
The precision of visual field testing outcomes hinges significantly on factors like the patient's visual fixation and subjective response. To address this, we utilize diverse technologies to create an eye-tracking perimetry system designed for ease of use and delivering precise perimetric results.

Equipped with a eye-tracking system, the FieldNavigator identifies shifts in the patient's gaze and presents the stimulus measurement locations accordingly. By analyzing parameters such as test initiation time, velocity, and eye movement paths, the FieldNavigator ensures accurate and comfortable visual field testing.

We anticipate that the FieldNavigator could streamline the visual field testing process by eliminating the need for monitoring patient fixation and obviating the requirement for a darkroom setting.

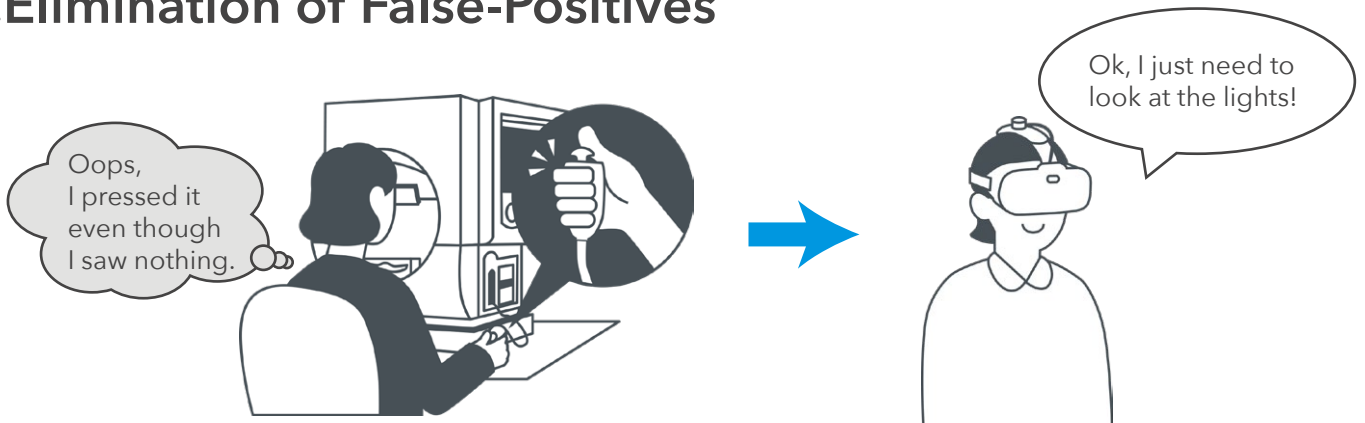
FIELDNavigator

1. Simplified patient instructions



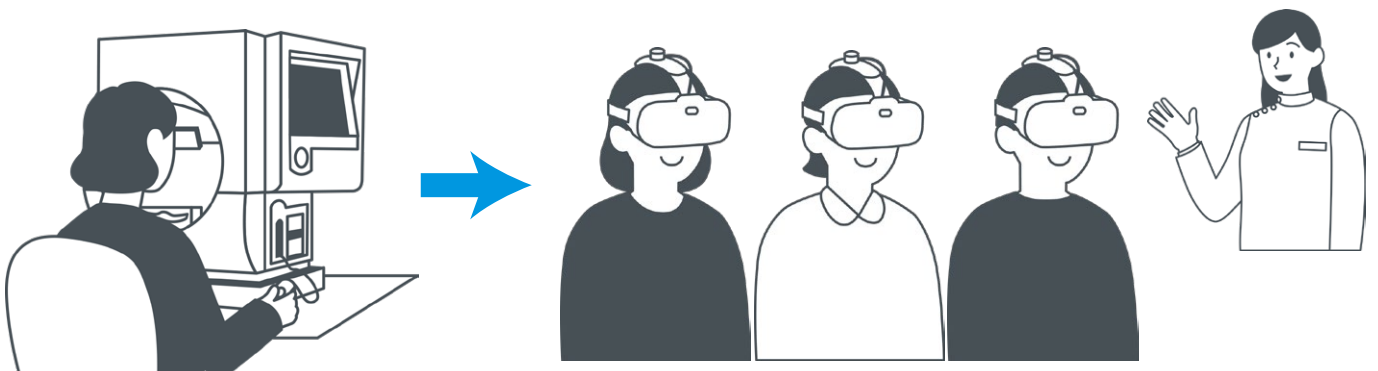
With automatic eye-tracking and hands-free measurements, the examiner can provide clearer explanations of the testing process to the examinee. Patients can readily pinpoint the target without confusion about its location.

2. Elimination of False-Positives



Traditional visual field tests demand prolonged concentration from patients and may result in accidental responses due to fatigue, leading to false-positive outcomes. The FIELDNavigator operates without necessitating the response switch, effectively mitigating the risk of false-positives. Nonetheless, the conventional response switch remains available for patients encountering challenges in tracking stimuli, such as those with central vision loss.

3. Compact Design



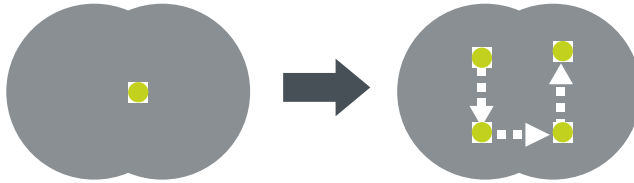
The FIELDNavigator is portable and compact, eliminating the need for a dark room during operation. Its minimal supervision requirements enable a single examiner to attend to a larger number of patients.

1 Fit on the goggles



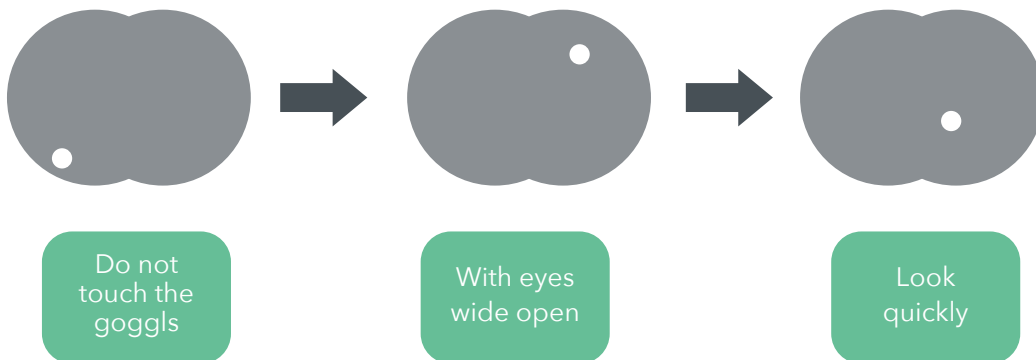
2 The green dot will move

Move your eyes to follow the dot



3 Various intensities of white dots are displayed.

Look carefully at each of them.



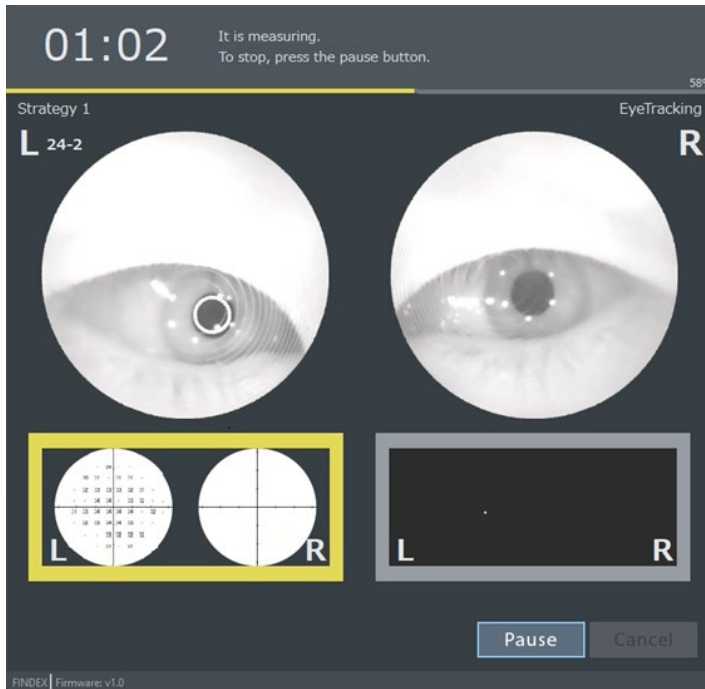
Hand switch measurement is recommended in the following cases:

- Patients with severe ptosis, a known central scotoma, and ocular motility disorders.
- Patients who fail during the calibration stage.
- Patients who fail during measurement with eye tracking mode. (Measurement can continue by changing to Hand switch mode)



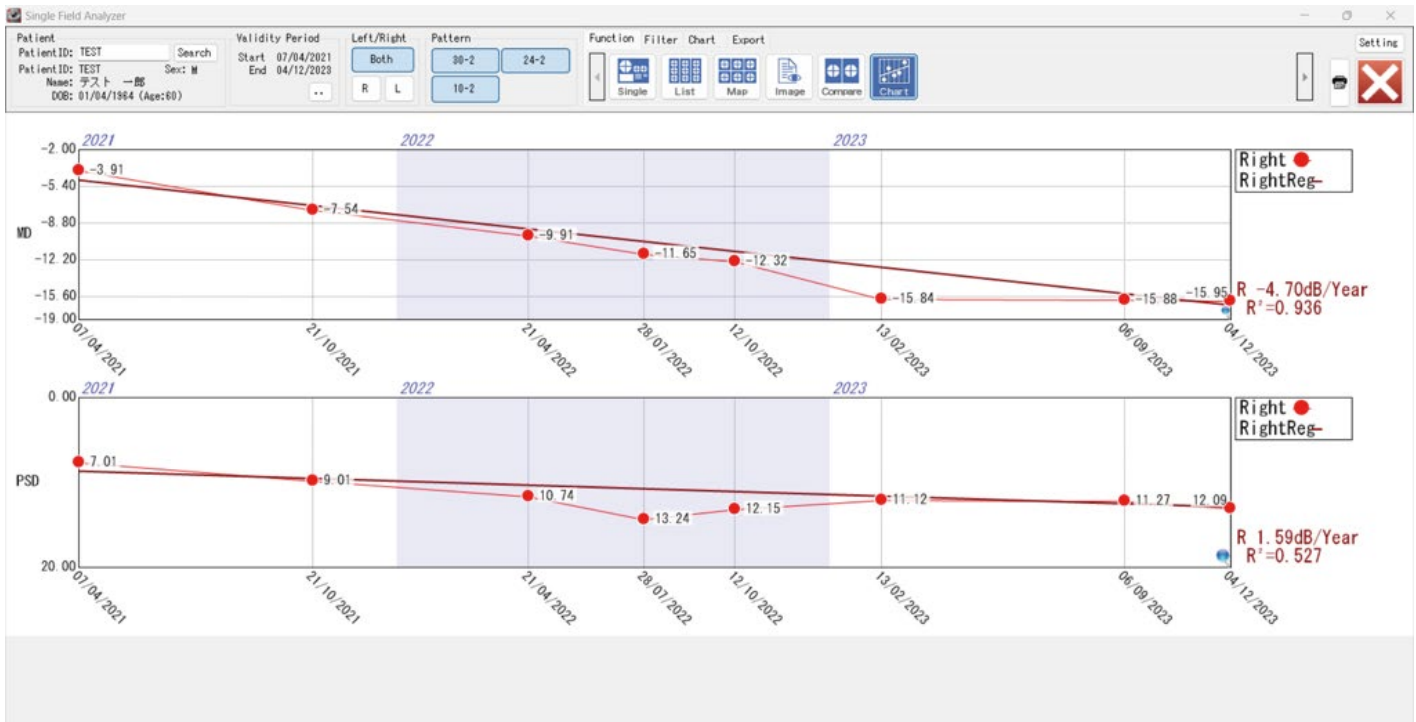
User-Friendly Graphical Interface

The FIELDNavigator boasts an intuitive GUI, ensuring a simple and comfortable visual field examination experience. A yellow percentage bar located beneath the examination duration indicates the progress of the test.



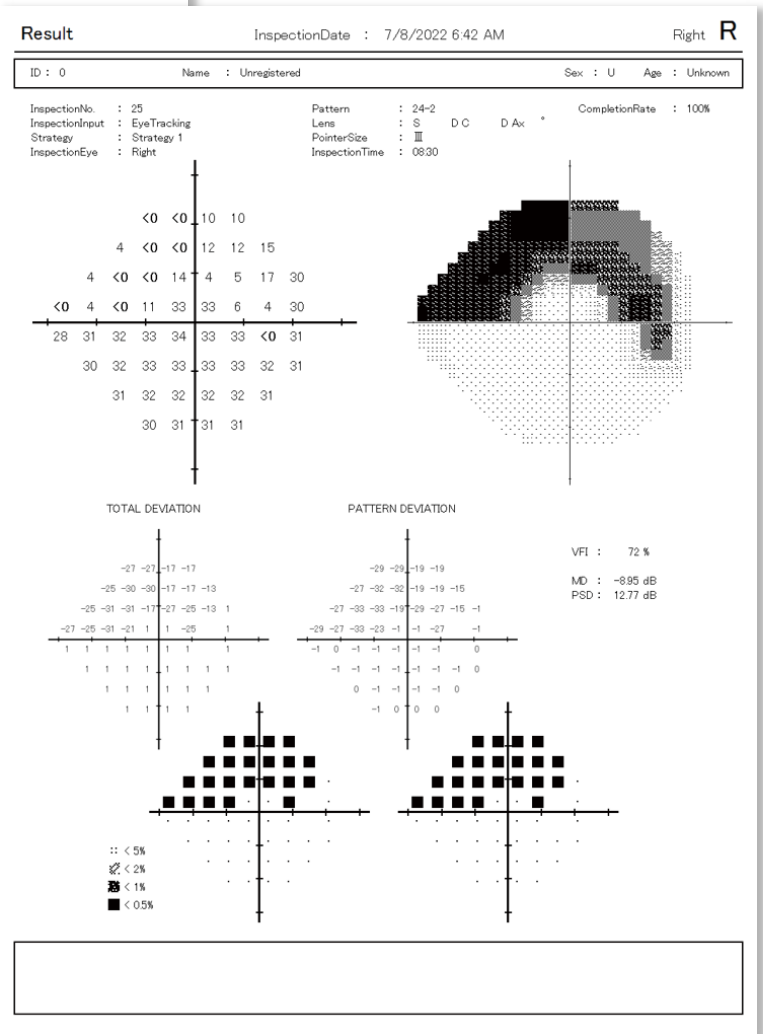
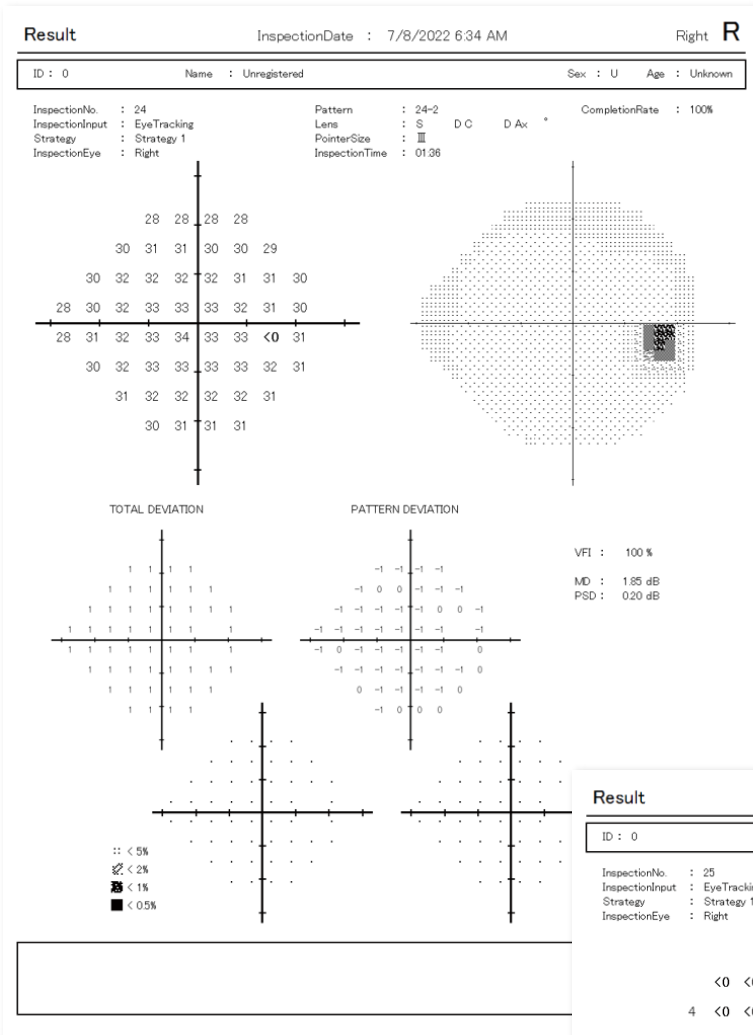
Perimetry Results Displayed on PC Software

The FieldNavigator comes equipped with C-Peri software, allowing for the viewing and analysis of perimetry results in diverse formats, facilitating thorough examination and patient follow-up.



Alignment with Industry Standards

The FIELDNavigator generates results that adhere to the industry-standard format making it easier for clinicians to compare and follow-up results from other perimeters in the market.



Compatibility study

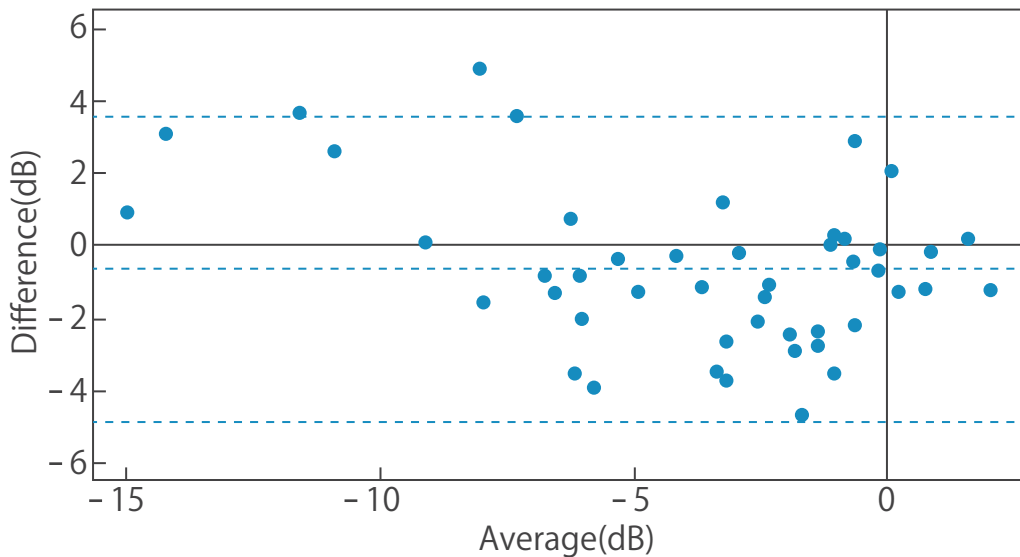
FIELDNavigator boasts impressive technical specifications, including a lightweight head-mounted display, adjustable spherical and cylindrical powers, and high-speed eye tracking capabilities. Preliminary studies have demonstrated its comparable performance to conventional perimeter, with strong correlations in mean deviation (MD) and sensitivity.



Data from conventional perimeter



Data from FIELDNavigator



Courtesy of Dr. Masahiro Miyake, School of Medicine and Faculty of Medicine, Kyoto University



Threshold test (Sensitivity measurement)		30-2,24-2,10-2
Dark-spot detection test (Screening)		30-2,24-2,10-2
Color of visual indicator		R (0 ~ 255), G (0 ~ 255), B (0 ~ 255)
Color of goggles background		R (0 ~ 255), G (0 ~ 255), B (0 ~ 255)
Size of visual indicator		Goldman II-V
Classification (Form of protection against electric shock)		Class I equipment
Degree of protection against electric shock		B type
Compliance with Electromagnetic interference Standards		EMD standard IEC60601-1-2:2014 + A1:2020
Power	Power Voltage	DC5V/3A(Maximum)/15w(Maximum)
	Power Consumption	15W(Maximum)
Size	Weight(Goggle portion)	0.54kg
	Dimensions (Goggle portion)	201mm(W) × 148mm(D) × 122mm(H) (Excluding Headband and Cables)
PC Interface		USB Type-C (DisplayPort Alt Mode)*1, USB Type-A*1 or more
OS		Windows 10 (64bit) and higher

Included Items

- Trial Lens
- Lens holder (PD values:64)
- Hand switch
- Relay Box
- Face cushion (spare)
- Nose Cover (spare)
- Hand switch (spare)
- Spacer for face cushion
- CD (Device Specific Difference File)



Design and specifications are subject to change without notice.

Manufacturer



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