

CREWT Medical Systems

Introduction of imovifa

Visual Function Analyzer for glaucoma diagnostics

November 2025

CREWT Medical Systems, Inc.

Executive Summary

- In 2015, we developed the world first head-mounted perimeter “**imo**” and implemented at over 200 clinical sites in Japan.



- In 2021, we launched “**imovifa**” as the successor to “imo”.

  Already **sold over 1,800 units**.

  Number of units sold are increasing.

  Now available in Japan, USA and Taiwan.

imovifa



- We desire to accelerate the introduction of imovifa into Asian countries with showing its advantages.

Remarkable features of imovifa

imovifa can provide the visual field (VF) test

- **Both eyes open** same as daily vision
- **In the bright room**, under the light environment
- In the small space, can be installed in a space of 45cm X 60cm
- Light weight 10kg



Enable to obtain

- **High accurate and reliable test result** similar output to the standard automated perimeter (SAP)
- **Test time reductions** of VF due to high speed

Design for both examiner and patient friendly



Current issues of SAP

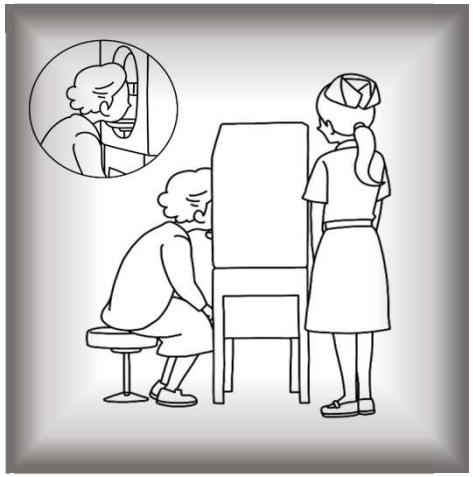
- Standard Automated Perimetry (SAP) has three main issues:

1. Access / Space
A darkened room is required, presenting accessibility problems for some patients



- Real Estate Cost
The need for a separate room is an unnecessary burden on practices

2. Posture Retention
Patients must maintain rigid posture throughout the test



- Workload and Time
Requires additional attention from assistants and may lead to retests

3. Discomfort
Full length tests can be up to 20 minutes, and may require an eye patch



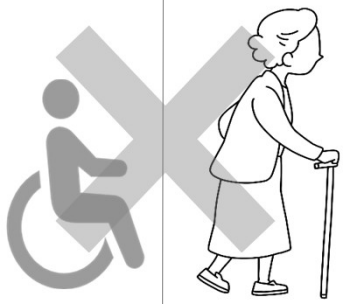
- Patient reticence
Many patients dread going through the test and may postpone

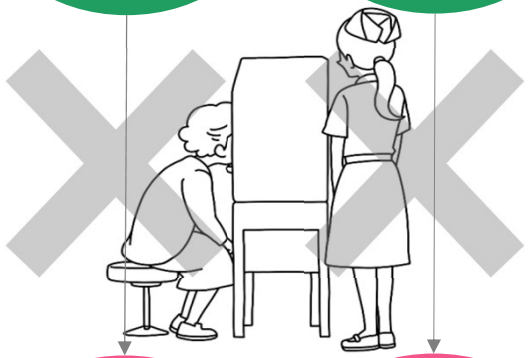
Our Solutions





	Place	Posture	Duration	Method
SAP	Dark room	Tiring	20 min.	Closed one eye
CREWT	Any location	Relax	<10 min.	Open both eyes
	-Small & Light -Portable	-Decrease tiredness	-High speed original algorithm	-Simultaneous binocular test

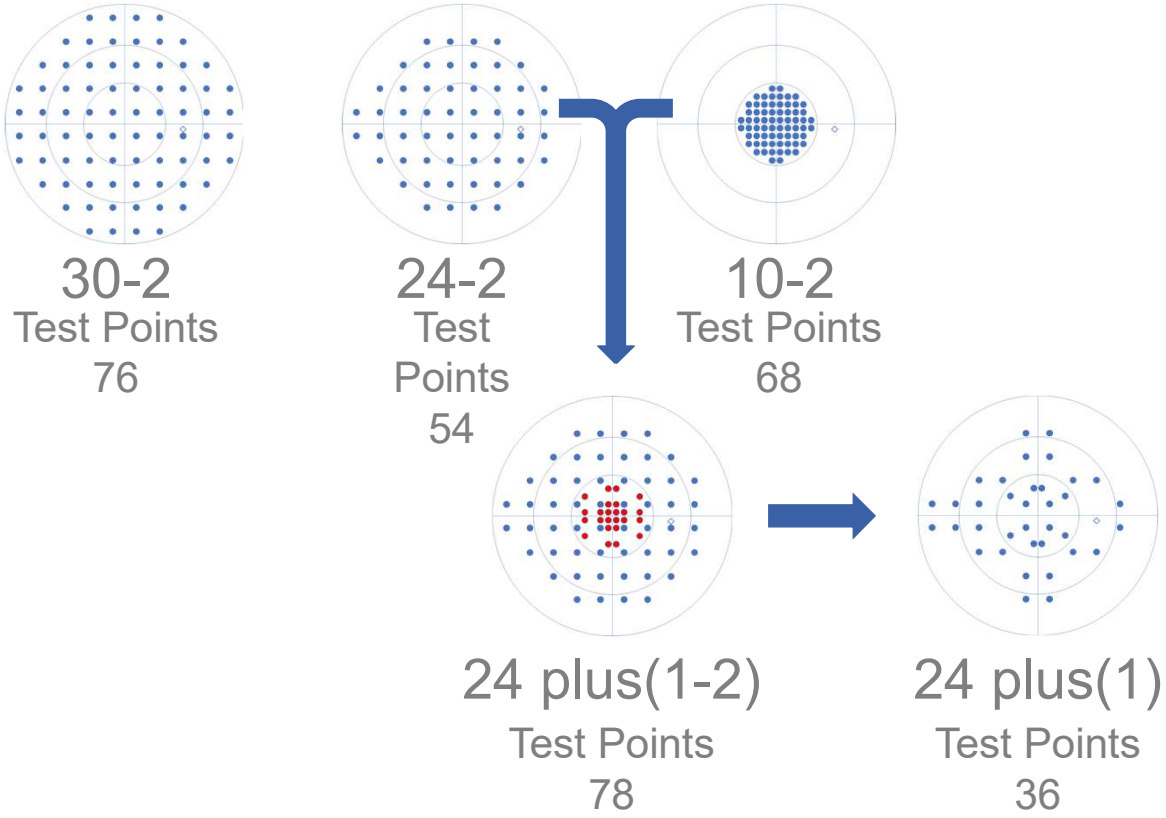






Test Pattern

- IMO has the same test-patterns as HFA: 30-2, 24-2, 10-2
- Original test-patterns 24plus(1-2) and 24plus(1) also offered for enhanced diagnosis

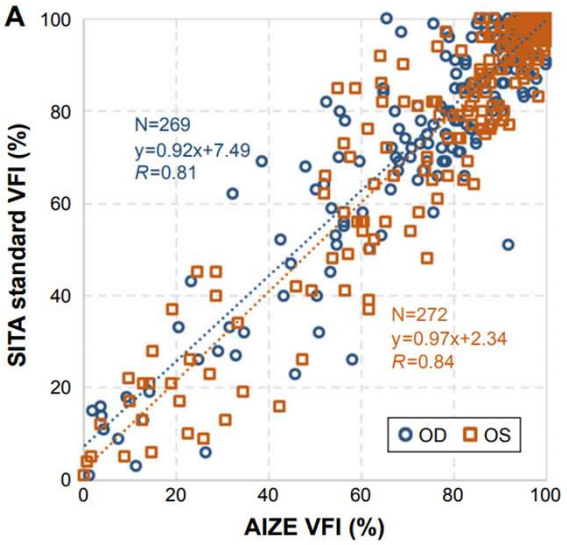


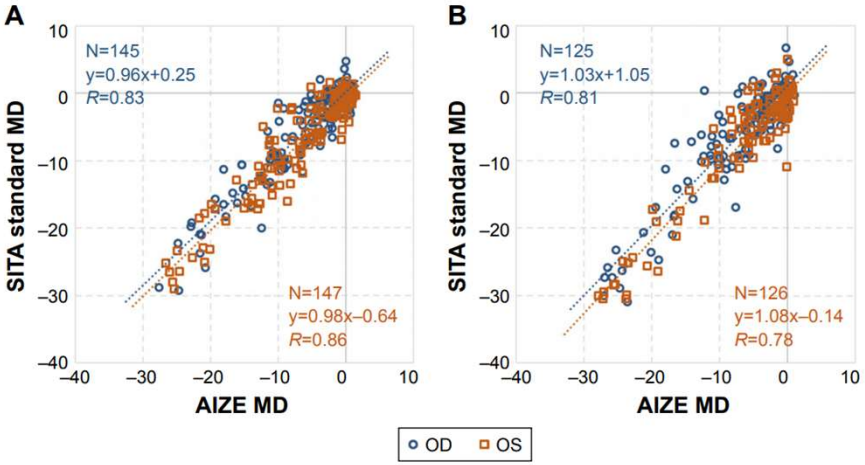
Normal eye	AIZE	AIZE-Rapid
30-2	4:30	2:30
24-2	3:20	2:10
10-2	3:20	2:10
24plus	4:20	2:40
24plus(1)	2:30	**1:30**

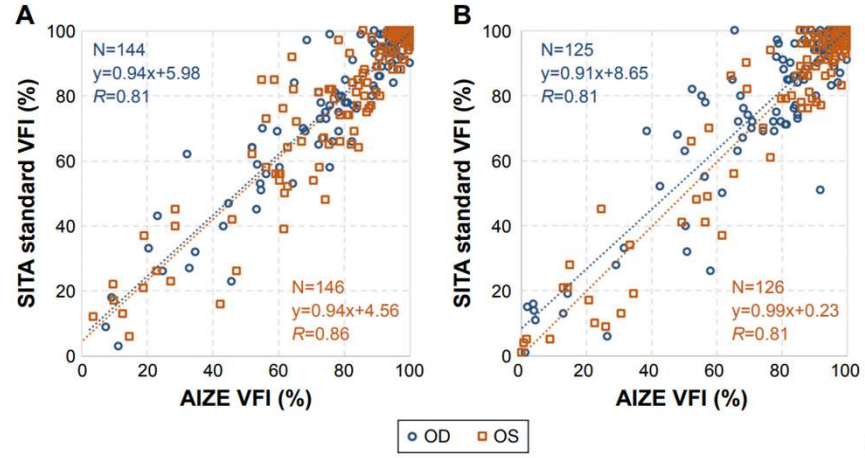
Glaucoma eye	AIZE	AIZE-Rapid
30-2	5:50	3:40
24-2	4:40	2:50
10-2	6:00	3:40
24plus	5:50	3:40
24plus(1)	2:50	**1:50**

High Accuracy of results

- IMO has shown excellent alignment with the industry standard (Humphrey Field Analyzer)





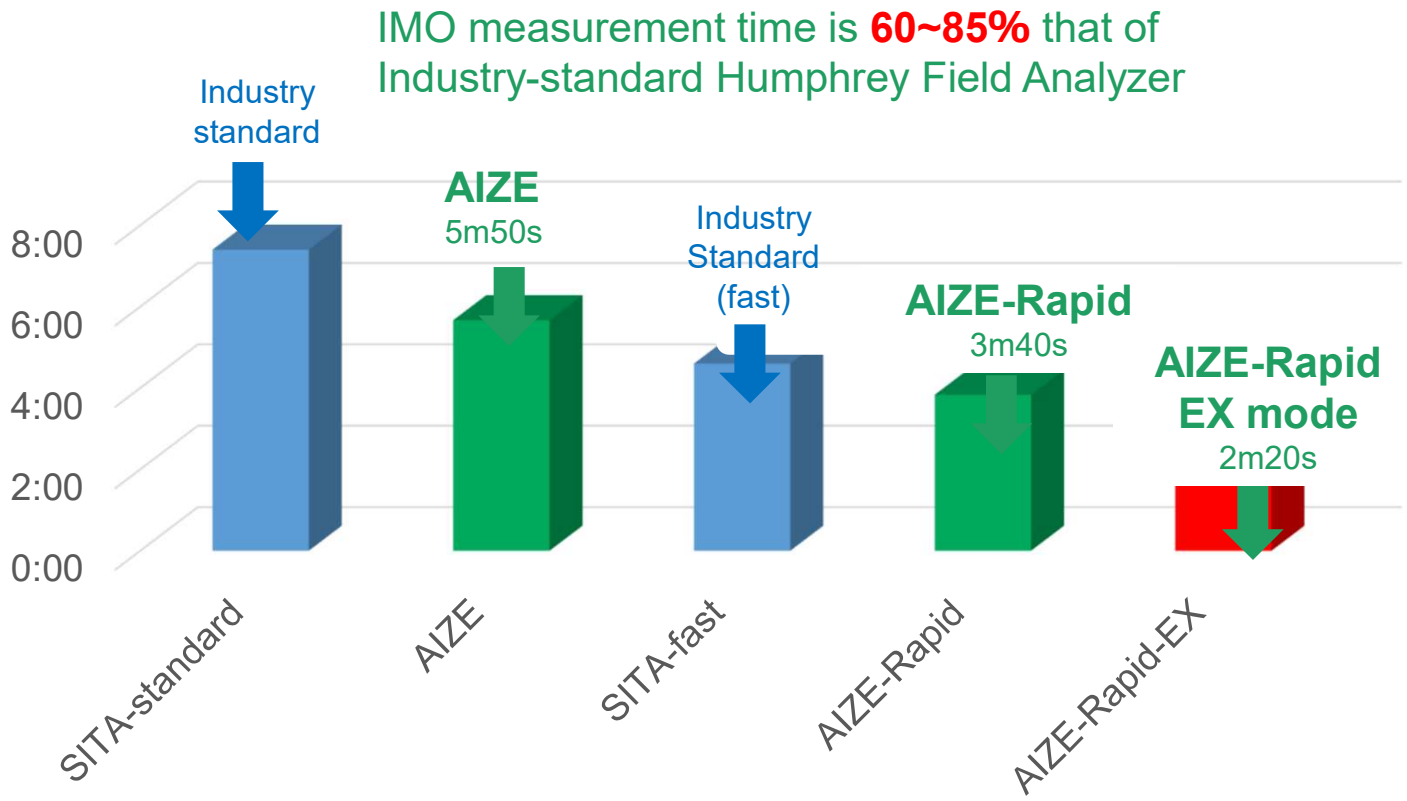


Kimura et al, Clinical Ophthalmology 2019:13 501–513
"Comparison of head-mounted perimeter (imo®) and Humphrey Field Analyzer"

Medical Systems, Inc.

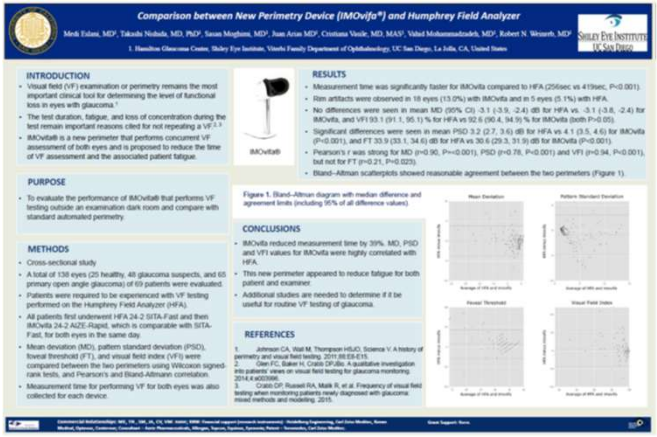
High Speed

- Monocular measurement time is proved to be 15-40% shorter than equivalent industry-standard machines (AIZE is the algorithm used in IMO, SITA in Humphrey)

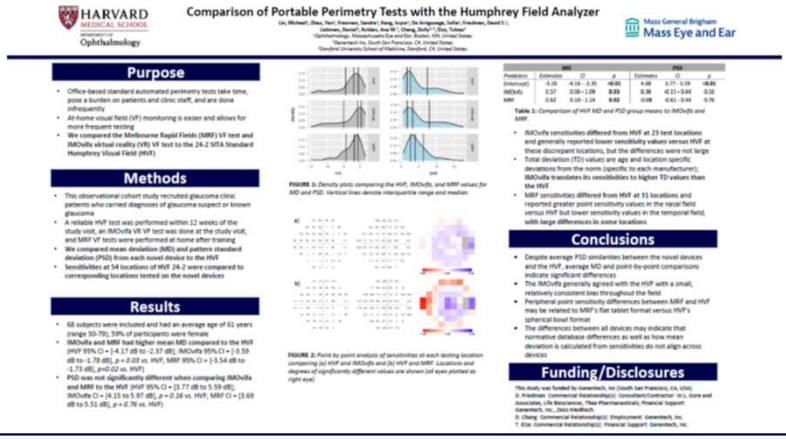


Latest Article about “imovifa”

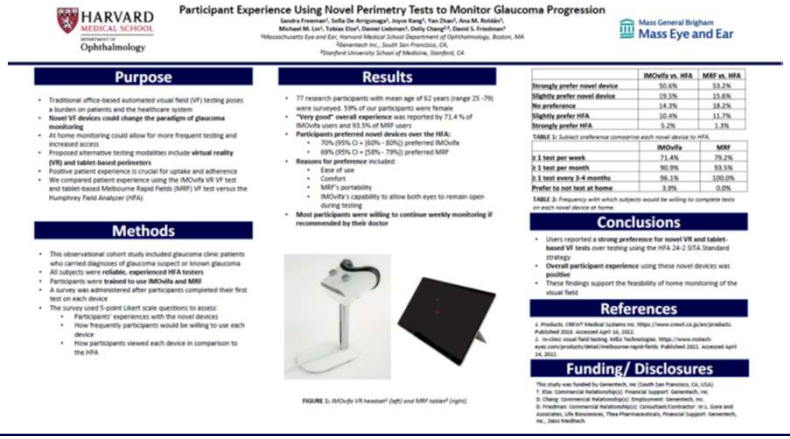
“Comparison between New Perimetry Device(IMOvifa) and Humphrey Field Analyzer”
Medi Eslani, MD, et al. Shiley Eye Institute, UC San Diego, CA, USA



“Comparison of Portable Perimetry Tests with the Humphrey Field Analyzer”
Lin Michael, et al. Massachusetts Eye and Ear, Harvard Medical School, MA, USA



“Participant Experience Using Novel Perimetry Tests to Monitor Glaucoma Progression”
Sandra Freeman, et al. Massachusetts Eye and Ear, Harvard Medical School, MA, USA



Today’s conclusion

- Many units of imovifa have already been sold in Japan, U.S and Taiwan.
- imovifa, the innovative binocular perimeter can provide accurate results.
- We would like to introduce imovifa in Thailand and to change the current environment.
- Hopefully, many academic research and studies will be also conducted in Thailand.

Imovifa vs HFA

	Imovifa	Humphrey Field Analyzer 800 series 
Display method of Stimuli	Display on LCD	Project on Domy Screen Quaquaversal screen
Maximum temporal range (degrees)	30 degree	90 degree
Stimulus size	Goldmann Ⅰ, Ⅱ, Ⅲ, Ⅳ, Ⅴ (bigger available)	Goldmann Ⅰ, Ⅱ, Ⅲ, Ⅳ, Ⅴ
Max. luminance of Stimuli	10,000 asb	10,000 asb
Background luminance	31.4 asb	31.5 asb
Stimulus duration	200 ms	200 ms
Visual field testing distance	1 m	30 cm
Threshold test library	30-2, 24-2, 10-2	30-2, 24-2, 10-2, Macula, etc.
Threshold test strategy	AIZE, AIZE-Rapid	SITA-Standard, SITA-Fast, etc.
Dimensions Size / Weight	60cm (W) x35.5cm (D) x44cm (H) 10.0kg	52cm (W) x46cm (D) x58cm (H) 28.7kg