

iCare MAIA



**A new level of excellence
in microperimetry**

For better perception **icare**



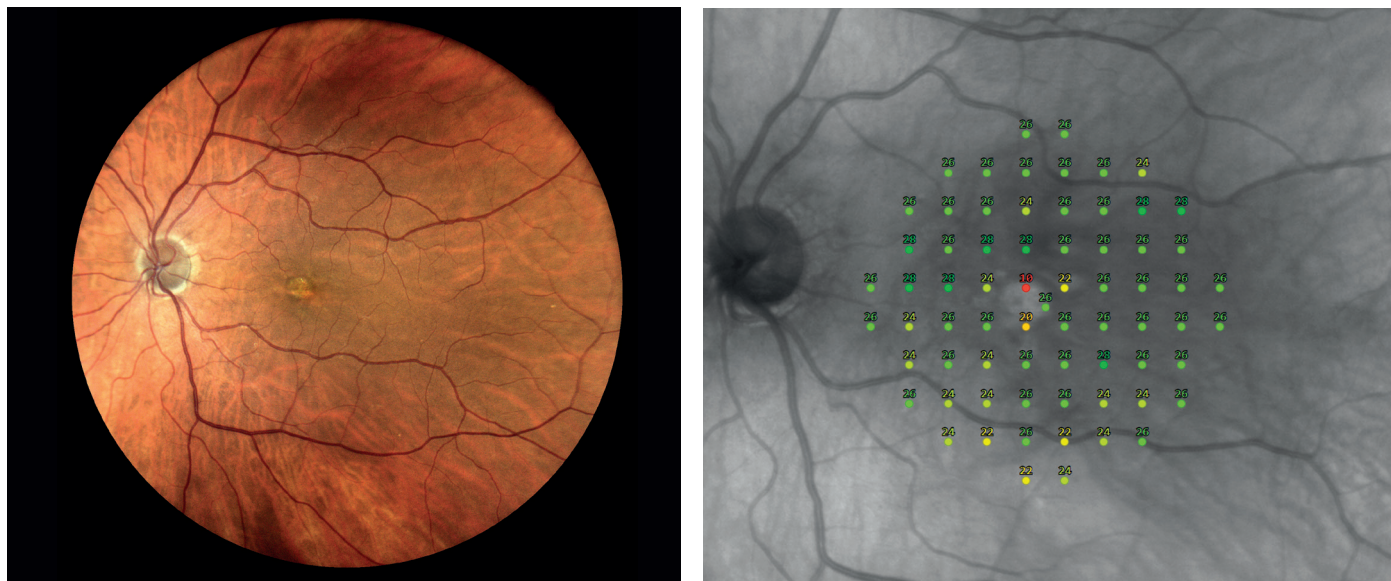
iCare MAIA TrueColor Microperimetry

iCare MAIA aids in the **detection and follow-up of diseases affecting the macula.**

Macular structure-function analysis An essential tool

Thanks to its combined structure-function analysis, the iCare MAIA® is an essential tool for:

- Improving the diagnosis of a variety of retinal diseases
- Monitoring the progression of retinal pathologies
- Monitoring treatment efficacy
- Assessing macular function prior to surgery
- Describing fixation characteristics prior to treatments
- Examining patients with unexplained vision loss



An example of a 60° TrueColor Confocal image and the retinal sensitivity test results with the 10-2 grid and the 4-2 strategy (68 stimuli, full threshold).

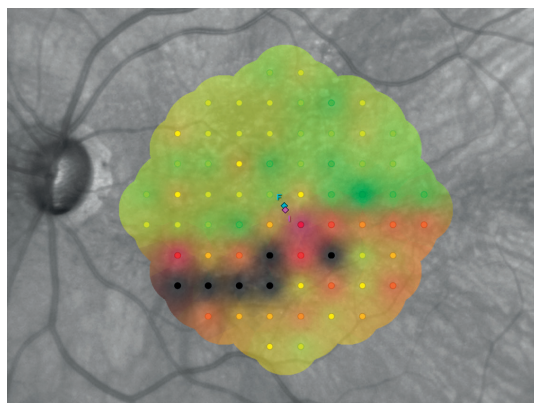
Testing with iCare MAIA

Uncompromised functionality and reliability

iCare MAIA is an automated microperimeter with fundus imaging capability (Fundus Perimetry). The high quality Scanning LED Ophthalmoscope-based active retinal tracker enables accurate, real time compensation for eye movements. This advanced technology provides retinal sensitivity and fixation analysis, as well as TrueColor and IR Confocal imaging of the retina.

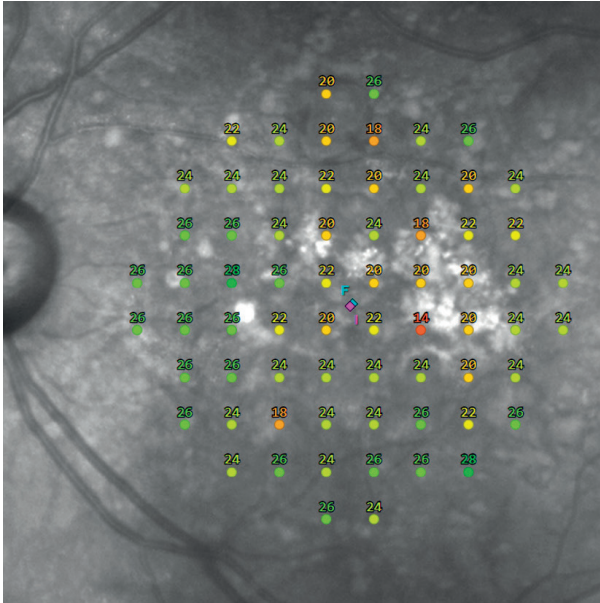
iCare MAIA performs microperimetry tests with supra and full-threshold strategies, and follow-up tests to monitor functional progression. Each exam provides retinal sensitivity and fixation analysis. The follow-up function will anatomically register follow-up tests to the baseline tests.

Thanks to the new auto-alignment, 60° TrueColor and IR confocal images and the large display, this 3rd generation iCare MAIA is easier to use and provides a wider field of view compared to the 2nd generation of MAIA.



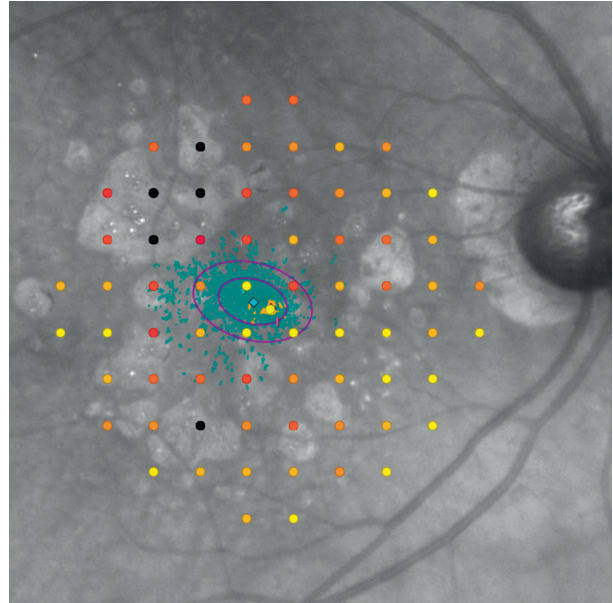
An example of an interpolated color map of an AMD patient showing localized functional defects. Scotoma is represented in black.

Clinical examples



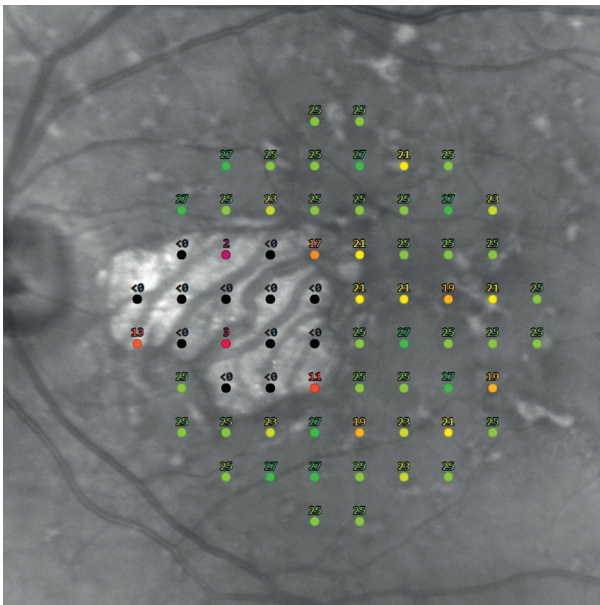
Intermediate AMD

This AMD patient shows large soft drusen. The visual acuity is about normal (20/25), but iCare MAIA reveals subtle loss of retinal sensitivity in areas affected by drusen.



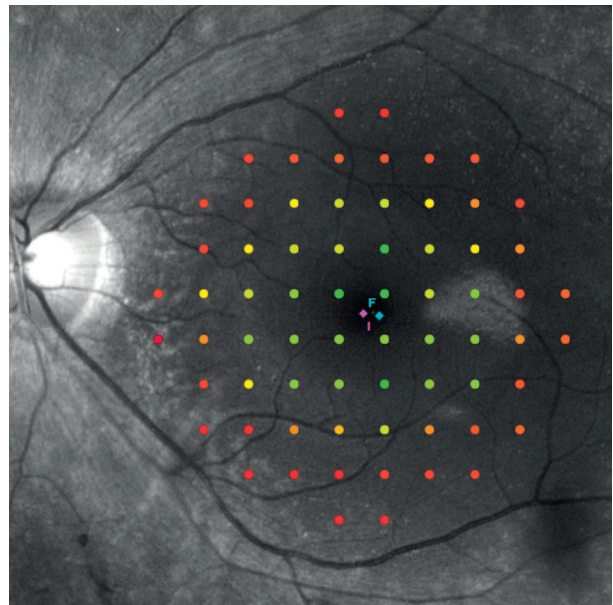
Geographic Atrophy

This GA patient with foveal sparing has almost normal visual acuity in the right eye (20/25). However, iCare MAIA reveals scotomata in the upper temporal macula.



Stargardt Disease

This patient with a late-onset Stargardt disease has almost normal acuity (20/25). iCare MAIA enables precise mapping of his scotoma in the nasal retina.



Retinitis pigmentosa

This patient with normal visual acuity (20/20) shows a typical scotoma for retinitis pigmentosa. iCare MAIA reveals dysfunction in the peripheral macula.

iCare MAIA Printout

iCare MAIA provides a detailed printout with all the collected information for a single exam and a follow-up.

- 1 Patient info
- 2 Exam notes
- 3 Custom header (logo and text)
- 4 Test parameters
- 5 Examined eye (OD, OS) and exam type (Root, Follow-up)
- 6 Fundus image
- 7 Zoomed view of the test pattern with threshold values (dB)
- 8 Zoomed view of the interpolated color map
- 9 Average Threshold
- 10 Histogram of threshold values
- 11 Fixation plot and PRL identification
- 12 Fixation Stability
- 13 Bivariate Contour Ellipse Area indices
- 14 Fixation graph describing amplitude of eye movements vs. time

1 Name: **Patient Demo**


Patient ID: P01234

Date of Birth: 01/01/1943 (81)

Gender: **Male**

Operator: **Operator**

Notes: **2**



3

Date: 11/07/2024 14:20 (81) **4**

Background / Strategy: **Mesopic / 4-2**

Pattern: 10-2 (68/68)

Avg. pupil size: 3.8 mm

Duration: 11:34

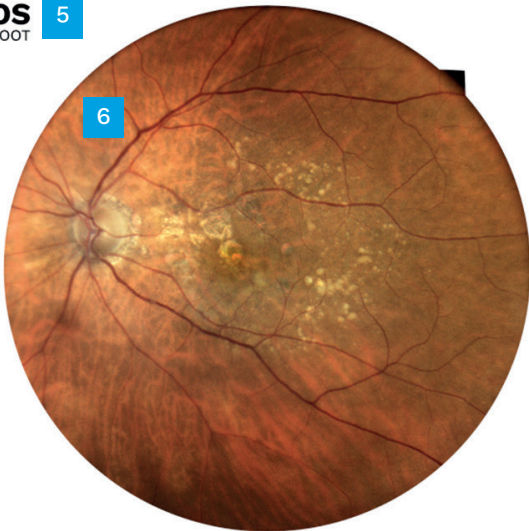
False pos.: 7%

False neg.: 0%

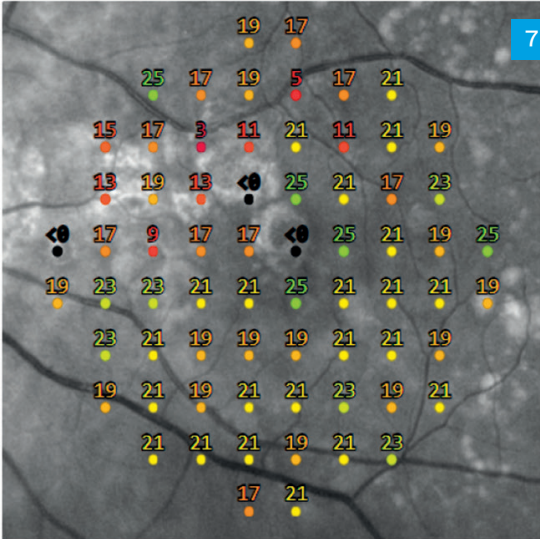
BS: 0/15

OS **5**

ROOT

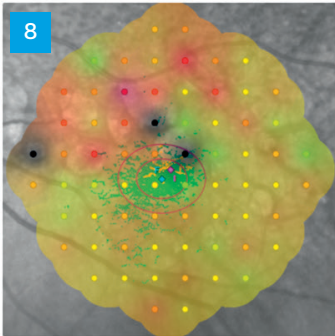


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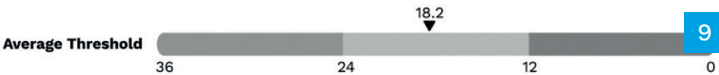
Interpolated map



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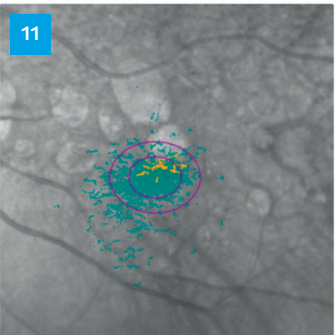
Average Threshold

18.2



9

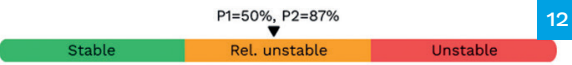
Fixation plot



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Fixation Stability

P1=50%, P2=87%



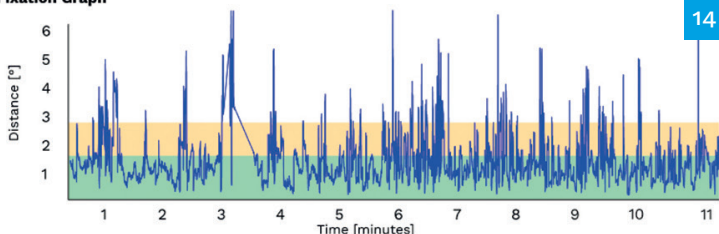
12

Bivariate Contour Ellipse Area

63.2% BCEA 1.7°x1.3°, Area 6.7°², Angle 0.0°

95% BCEA 2.9°x2.2°, Area 20.0°², Angle 0.0°

Fixation Graph



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Report date: 10/09/2024

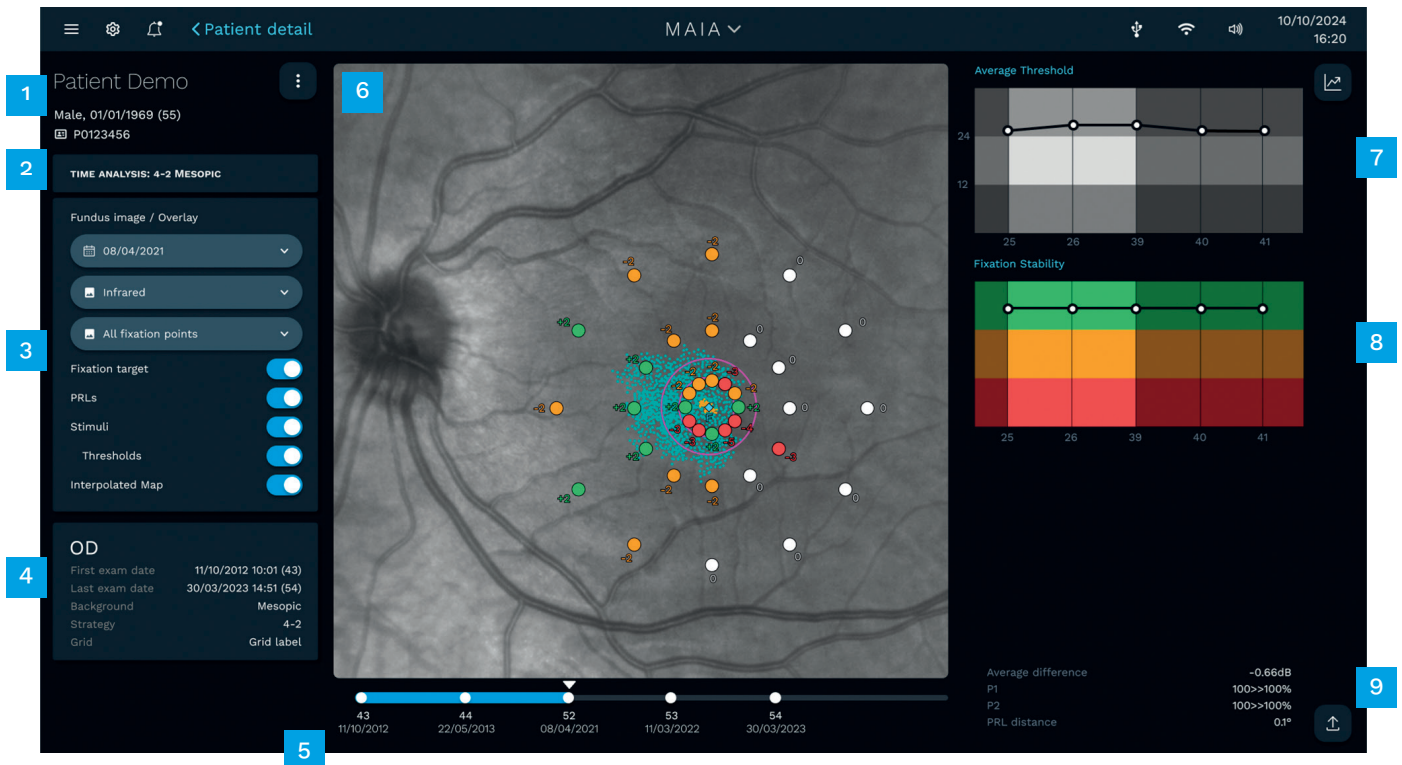
Page: 1/1

Report device: MAIA s/n 2401EM001

Software version: 1.0.0

MAIA

Time Analysis



- 1 Patient info
- 2 Report type, strategy (4-2) and test mode (Mesopic)
- 3 Fundus image and overlay information
- 4 Eye and exam details
- 5 Timeline of examinations
- 6 Pointwise sensitivity differences between the baseline and last follow-up with fixation plot and PRL
- 7 Average threshold progression
- 8 Fixation stability progression
- 9 Average sensitivity difference, fixation and PRL details

Benefits at a glance

- Clinically proven technology, well-recognized in the medical research field.
- Smooth and straightforward operation thanks to the auto-alignment, autofocus, wide touch screen, intuitive user interface and the onboard grid editor that makes it easy to test specific retinal lesions.
- Unparalleled structure-function correlation with the active retinal tracker, a 60° (diameter) TrueColor Confocal and IR fundus imaging.
- Precise retesting of the same retinal locations at follow-ups, even with baseline data from a previous generation of MAIA.

Technical data

iCare MAIA	
Class and type of applied part	Class II, type B (according to IEC 60601-1)
Microperimetry	<p>Projection field: 30°</p> <p>Background luminance: 4 asb</p> <p>Maximum luminance: 1000 asb</p> <p>Dynamic range: 0-36 dB</p> <p>Stimulus size: Goldmann III</p> <p>Stimulus duration: 200 ms</p> <p>Test strategies: 4-2 (Full threshold), 4 Levels Fixed, Scotoma Finder, Fixation Only</p> <p>Test patterns: Standard 10° (10° area, pattern of 3 rings, 37 points), circular 6° (6° area, pattern of 3 rings, 37 points), circular 20° (20° area, pattern of 4 equidistant diagonals, 41 points), 10-2 (20° area, 68 points), custom grids</p> <p>Fixation control: 25 Hz automated retinal tracking</p>
Fundus Imaging	<p>Field of view: 60°</p> <p>Sensor resolution: 5 Mpixel (2592x1944)</p> <p>Light source: infrared (825-870 nm) and white LED (440-650 nm)</p> <p>Imaging modalities: TrueColor, Infrared, Red-free**, Blue**, Red**</p> <p>Resolution: 17 µm</p>
Other features	<p>Automatic operation: auto-alignment, auto-focus, auto-retinal tracking, auto-pupil tracking, auto-exposure, auto-capture</p> <p>Automatic pupil size indication</p> <p>Non-mydratic operation: minimum pupil size 3 mm</p> <p>Working distance: 28 mm</p> <p>Auto-focusing adjustment range: -12D to +15D</p> <p>Multi-touch, embedded 15" color display</p> <p>Ethernet and WiFi connection</p> <p>Export to USB and a shared folder</p> <p>Hard drive: SSD, 480 GB or higher</p>
Optional softwares*	<p>Remote Viewer up to 5 licenses</p> <ul style="list-style-type: none"> • Viewing patient list, individual patient records, test results and images • Adding patient • Qualitative indication, view and store of Cup-to-disk ratio • Comparing two images side by side or flickering (alternating) them • Exporting test reports and images • PDF printout or sending to a printer installed on the local computer <p>Remote Exam</p> <p>Open Perimetry Interface (OPI)</p>
Dimensions	<p>Weight: 27 Kg / 59 lbs</p> <p>Size (WxHxD): 360 mm x 590 mm x 620 mm / 14.2" x 23.2" x 24.4"</p> <p>Size display (WxHxD): 390 x 180 x 190 mm / 15.4" x 7.1" x 7.5"</p>
Electrical requirements	<p>Rated voltage: 100-240 VAC, 50-60 Hz</p> <p>Power consumption: 80 W</p>

* Optional ** Digital filters

iCare. For better perception.

iCare is a trusted partner in ophthalmic diagnostics, offering physicians fast, easy-to-use, and reliable tools for diagnosis of glaucoma, diabetic retinopathy, and macular degeneration (AMD). Our devices cover automated fundus imaging systems, perimeters, and rebound tonometers. iCare Solutions provide digital clinical tools that drive greater efficiency and enhance quality in eye care.

We believe that ophthalmic care must be accessible, effortless, and reliable, and our aim is to establish the next level of eye care.

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