



Microperimeter  
**MP-3**



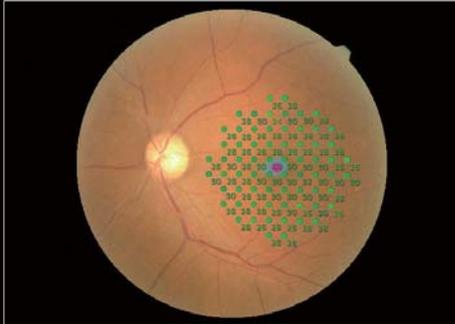
**THE ART OF EYE CARE**



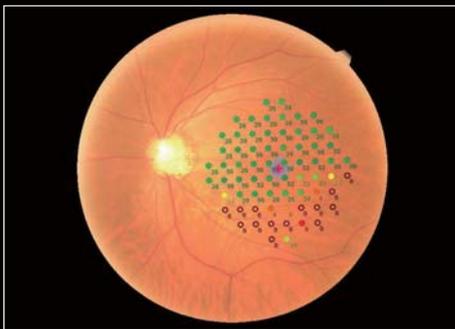
# MP-3 Microperimeter

## The Automatic Microperimeter With A Non-Mydriatic Fundus Camera

### ■ **Functionality**



MP-3 Normal Eye Image (34 dB)



MP-3 Glaucomatous Eye Image (34 dB)

### Wide Measurement Range

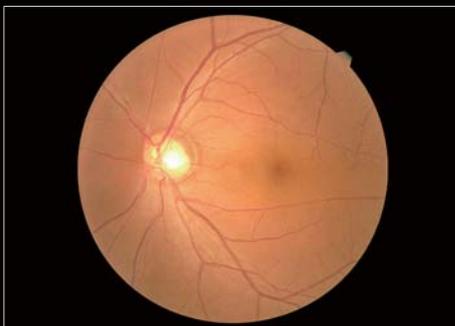
The MP-3 has a wider range of stimulus intensity, from 0 to 34 dB, compared to the MP-1. The MP-3 measures perimetric threshold values, even for normal eyes. A maximum stimulus luminance of 10,000 asb\* allows evaluation of low-sensitivity.

\*Complies with the ISO 12866 requirements.

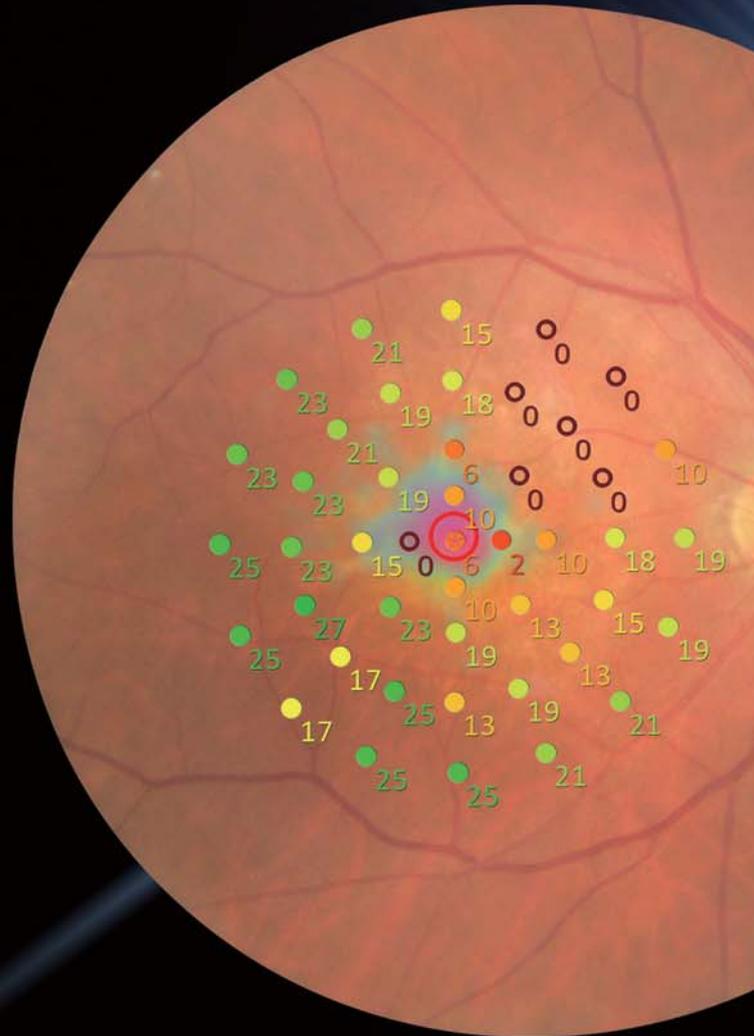
### ■ **Morphology**

#### High Resolution Non-Mydriatic Fundus Camera

The 12-megapixel fundus camera in the MP-3 acquires high resolution images of retinal pathology and allows easy image acquisition.



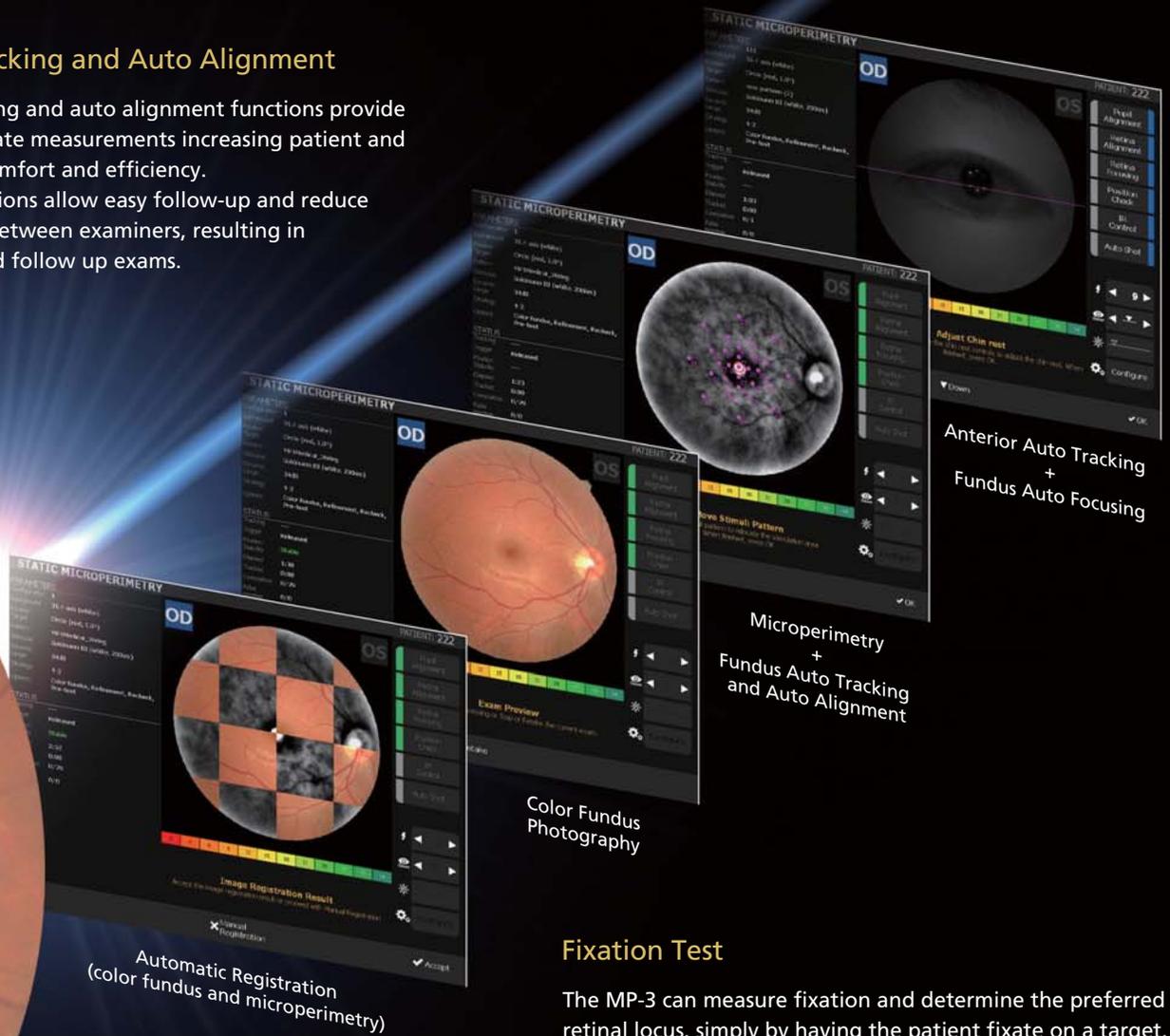
Fundus Camera Image



There have been significant advances in the assessment of retinal morphology due to the introduction of optical coherence tomography (OCT) into clinical practice, however, functional evaluation of retinal pathology is further advanced with the use of the microperimetry. The MP-3 measures local retinal sensitivity for functional assessment of the retina. The results can be displayed over a color fundus image, correlating retinal anatomy to retinal function.

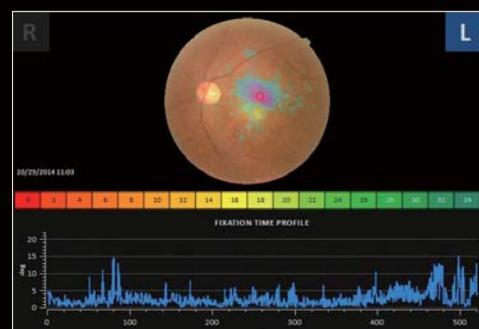
### Auto Tracking and Auto Alignment

Auto tracking and auto alignment functions provide more accurate measurements increasing patient and operator comfort and efficiency. These functions allow easy follow-up and reduce variations between examiners, resulting in well-aligned follow up exams.



### Fixation Test

The MP-3 can measure fixation and determine the preferred retinal locus, simply by having the patient fixate on a target. Any change in fixation can be compared pre- and post-treatment because the patient's eye is constantly tracked during microperimetry. This test allows evaluation of fixation in patients with central visual field defects and determines whether fixation improved after treatment.



Fixation Test Image

MP-3 Image



## Evaluation of Treatment

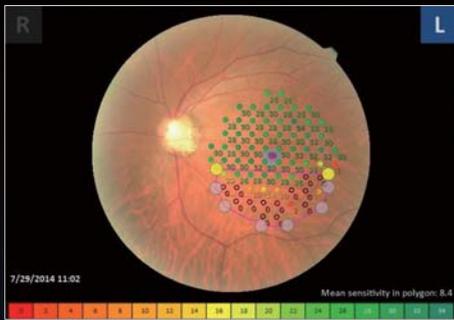
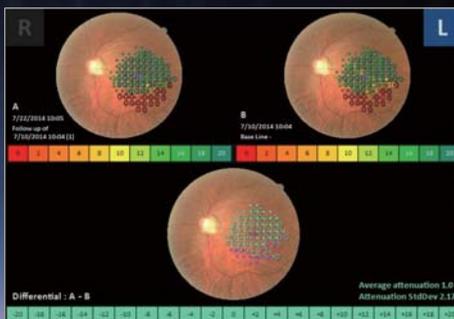


Image of Area Specified Fixation Result



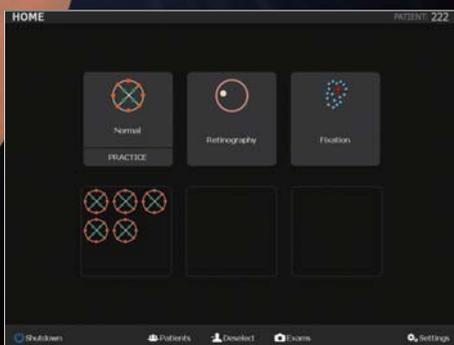
Follow-up Image

## User-Friendly Functions

### Selection of Test Mode

Several measurement modes are available for evaluating a variety of pathology including:

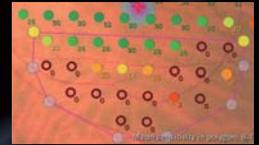
- Microperimetry: Microperimetry test (visual sensitivity mapping)  
Microperimetry test practice
- Retinography: Fundus photography
- Fixation: Fixation test



Start Image

## Region-specific Test Evaluation

After completion of measurements, results can be evaluated in a specific region of interest to allow easier comparison with other pathology images. By specifying the region of interest, the average results in the region are displayed.



Magnified Image of Specified Fixation Point

## Follow-up Test

A follow-up test can be performed on the same area using the same parameters as a previous test. This feature allows evaluation of disease progression or assessment of pre- and post-treatment outcomes. Any differences in two microperimetry images are displayed for quick, intuitive interpretation.

## Fixation Assessment

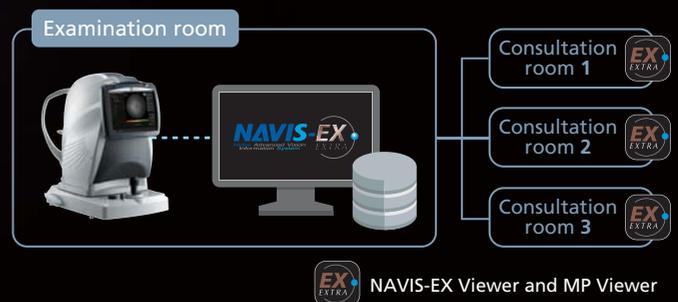
The MP-3 indicates the percentage of fixation points within 2° and 4° in diameter help confirm fixation stability.



Magnified Image of the Fixation Stability

## NAVIS-EX

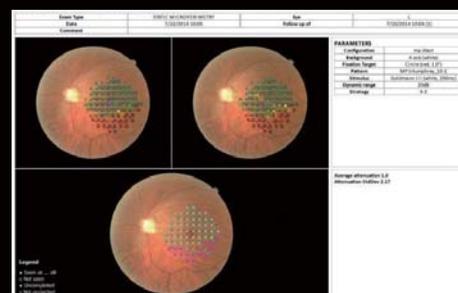
NAVIS-EX is an image filing software that networks the MP-3 and other NIDEK fundus imaging devices.



NAVIS-EX Viewer and MP Viewer

## Print Setup

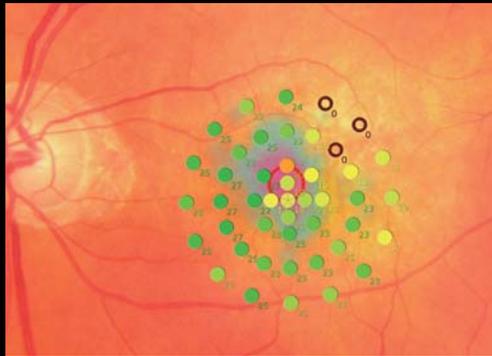
Various printed reports are available including user specified layouts when used with NAVIS-EX.



Print Image

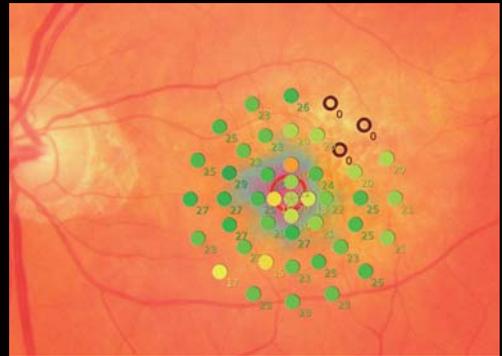
## MP-3 Images of Pre- and Post-treatment Comparison

Case of anti-VEGF treatment for age-related macular degeneration (AMD)



Pre-treatment

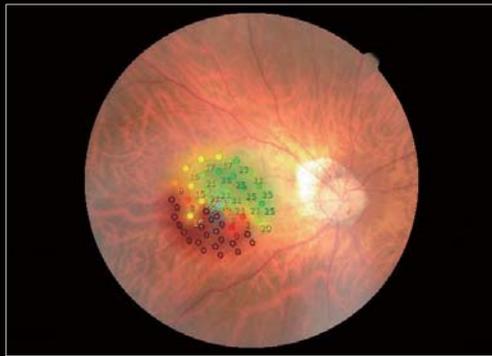
Circle at 2° Percentage of fixation points 66.1%  
 Circle at 4° Percentage of fixation points 92.1%  
 Mean sensitivity: 20.4



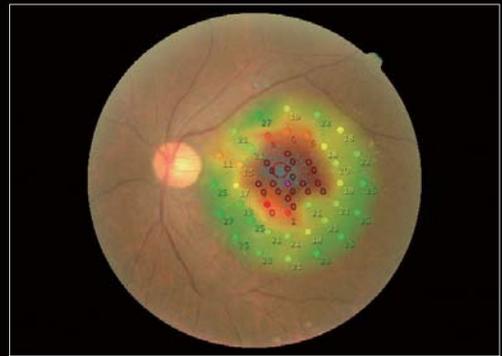
Post-treatment

Circle at 2° Percentage of fixation points 68.1%  
 Circle at 4° Percentage of fixation points 95.5%  
 Mean sensitivity: 20.9

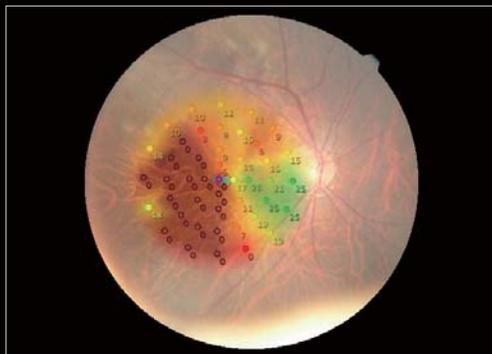
## Cases of the Macular Disease



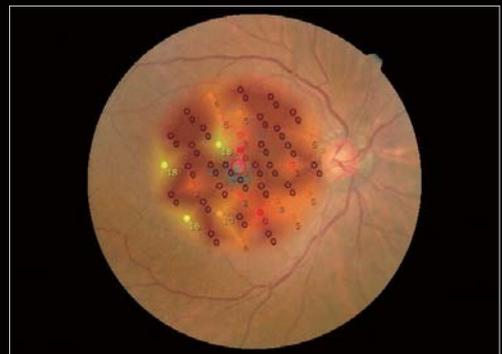
Macular Hole



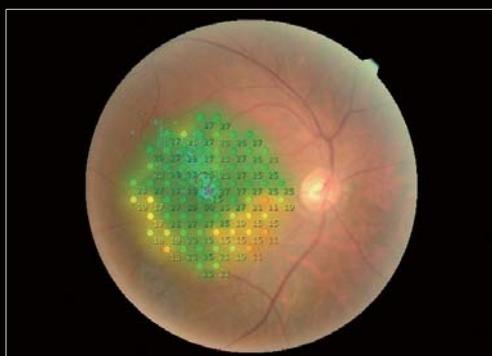
Branch Retinal Vein Occlusion



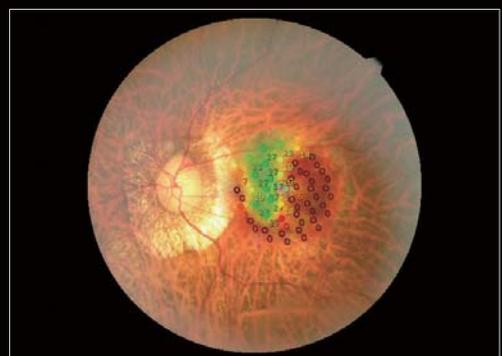
Central Serous Chorioretinopathy



Age-related Macular Degeneration



Diabetic Retinopathy



Polypoidal Choroidal Vasculopathy

## MP-3 Specifications

<b>Microperimetry</b>	
Visual field	40°
Maximum stimulus luminance	10,000 asb (complies with the ISO 12866 requirements)
Background luminance	31.4 asb / 4 asb (complies with the ISO 12866 requirements)
Stimulus size	Goldman I / II / III / IV / V compatible
Threshold strategy	4-2 / 4-2-1
Fixation target	Shape: single-cross, circle, four-crosses Color: select from white / yellow / red / blue
<b>Fundus Camera</b>	
Type	Non-mydratric fundus camera, color
Angle of view	45° ±5% (The refraction of the eye is 0 D)
Minimum pupil diameter	ø4 mm
Camera	Built-in 12-megapixel CCD camera
Auto tracking / Auto shot	X-Y-Z direction, Auto shot
Working distance	45.7 mm
Display	10.4-inch color LCD touch screen
Diopter correction range	-25 to +15 D
Fundus auto focus range	-12 to +15 D
Power supply	AC 100 to 240 V ±10% 50 / 60 Hz
Power consumption	160 VA
Dimensions / Mass	334 (W) x 562 (D) x 560 (H) mm / 36 kg 13.1 (W) x 22.1 (D) x 22.0 (H) " / 79 lbs.
Optional accessories	Motorized optical table



Product / Model name: Microperimeter MP-3

Specifications may vary depending on circumstances in each country.

Specifications and design are subject to change without notice.



**HEAD OFFICE**  
(International Div.)  
34-14 Maehama, Hiroishi  
Gamagori, Aichi 443-0038,  
Japan  
TEL: +81-533-67-8895  
URL: <http://www.nidek.com>  
[Manufacturer]

**TOKYO OFFICE**  
(International Div.)  
3F Sumitomo Fudosan Hongo  
Bldg., 3-22-5 Hongo, Bunkyo-ku,  
Tokyo 113-0033, Japan  
TEL: +81-3-5844-2641  
URL: <http://www.nidek.com>

**NIDEK INC.**  
47651 Westinghouse Drive  
Fremont, CA 94539, U.S.A.  
TEL: +1-510-226-5700  
+1-800-223-9044  
(US only)  
URL: <http://usa.nidek.com>

**NIDEK S.A.**  
Europarc  
13, rue Auguste Perret  
94042 Créteil, France  
TEL: +33-1-49 80 97 97  
URL: <http://www.nidek.fr>

**NIDEK TECHNOLOGIES Srl**  
Via dell'Artigianato,  
6 / A 35020 Albignasego  
(Padova), Italy  
TEL: +39 049 8629200/8626399  
URL: <http://www.nidektechnologies.it>

**NIDEK (SHANGHAI) CO., LTD.**  
Rm 915, China Venturetech  
Plaza, No.819 Nanjing West Rd,  
Jing An District, Shanghai  
China 200041  
TEL: +86 021-5212-7942  
URL: <http://www.nidek-china.cn>

**NIDEK SINGAPORE PTE. LTD.**  
51 Changi Business Park  
Central 2 #06-14  
The Signature Singapore  
486066  
TEL: +65 6588 0389

