



Microperimeter MP-3



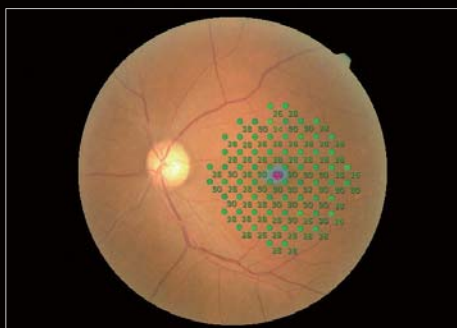
THE ART OF EYE CARE



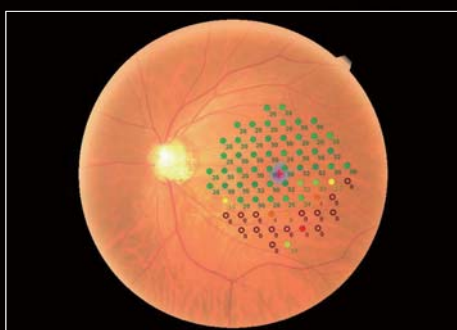
MP-3 Microperimeter

The Automatic Microperimeter With A Non-mydriatric Fundus Camera

■ Functionality



MP-3 Normal Eye Image (34 dB)

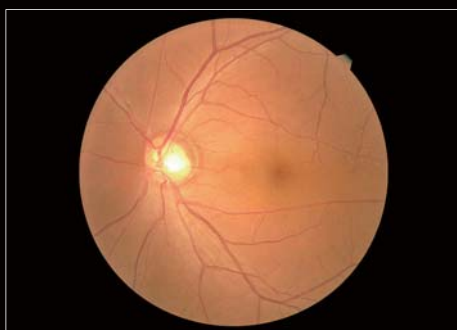


MP-3 Glaucomatous Eye Image (34 dB)

■ Morphology

High Resolution Non-mydriatric Fundus Camera

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

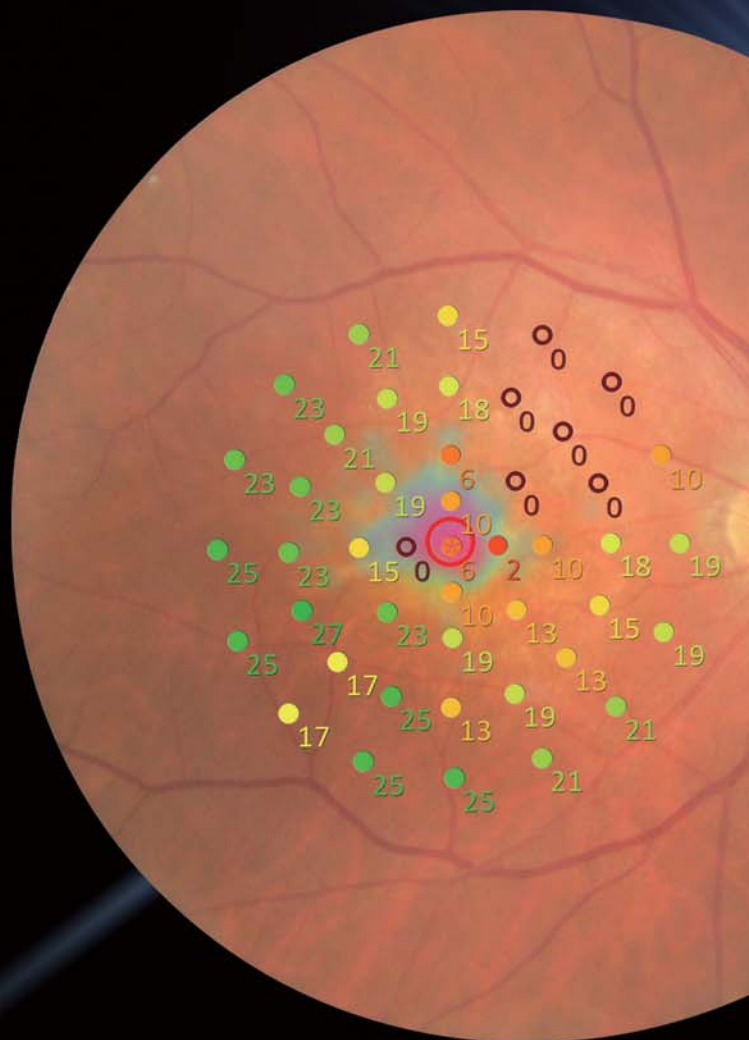


Fundus Camera Image

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.

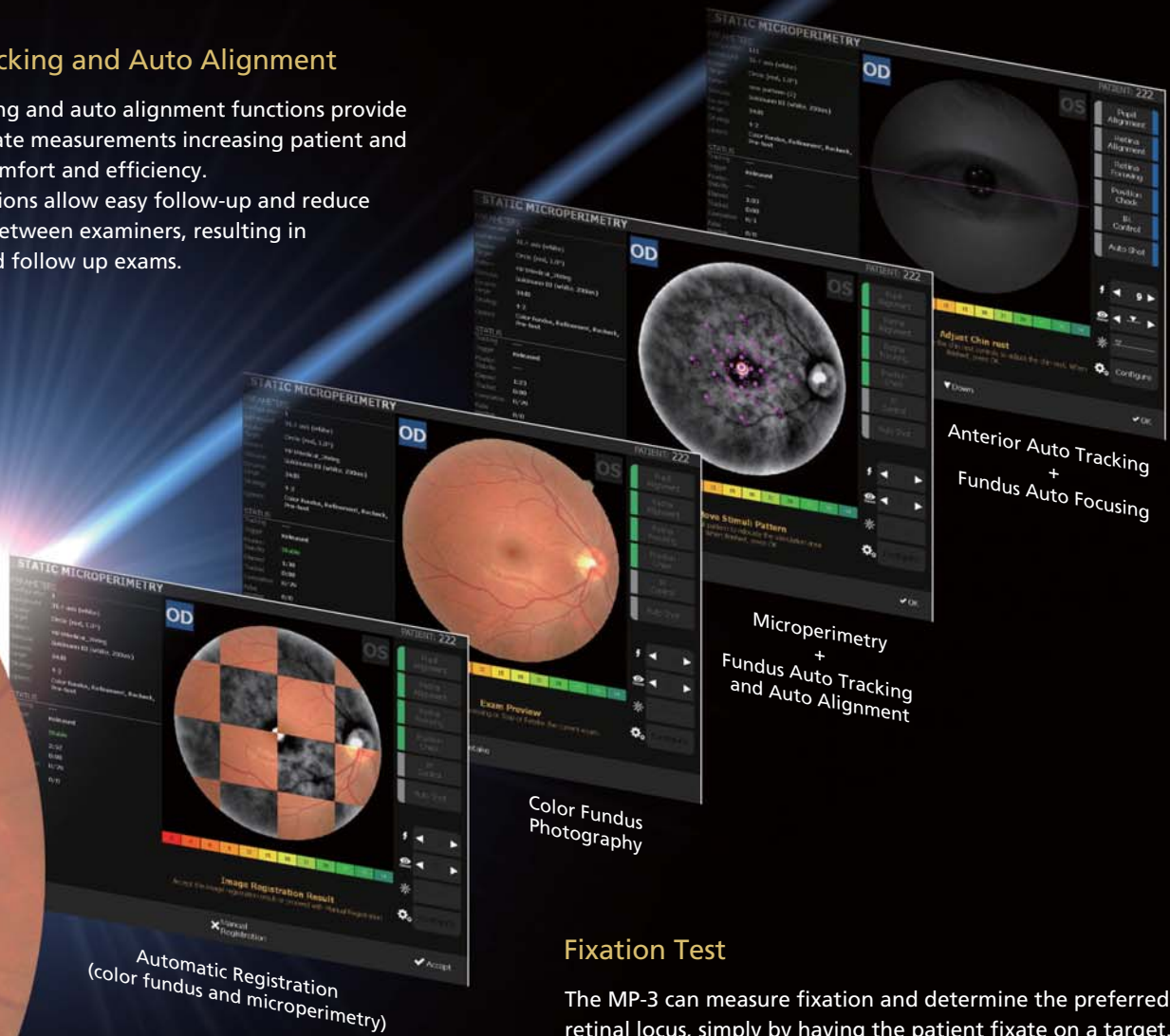
*Complies with the ISO 12866 requirements.



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.

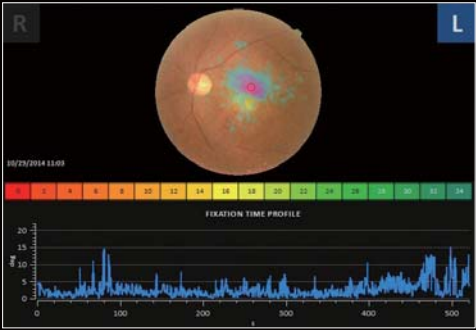
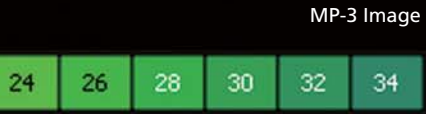
Auto Tracking and Auto Alignment

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.



Evaluation of Treatment

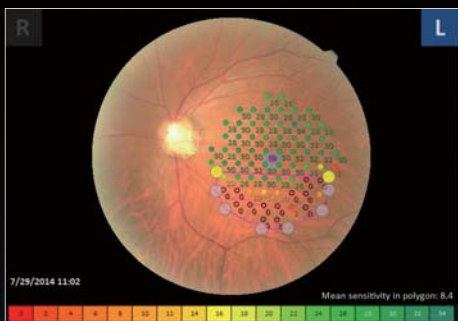
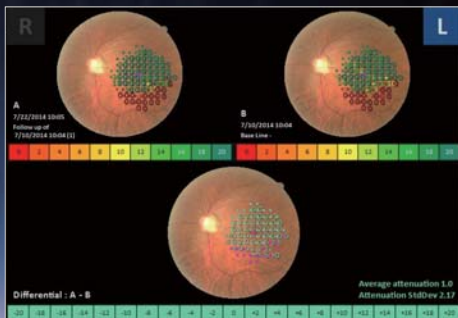


Image of Area Specified Fixation Result

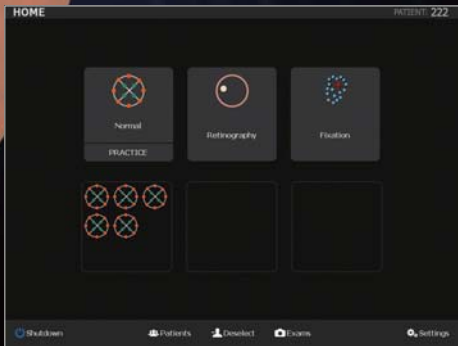


Follow-up Image

User-friendly Functions

Selection of Test Mode

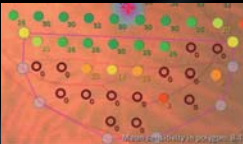
- Several measurement modes are available for evaluating a variety of pathology including:
- Microperimetry: Microperimetry test (visual sensitivity mapping) Microperimetry test practice
 - Retinography: Fundus photography
 - Fixation: Fixation test



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

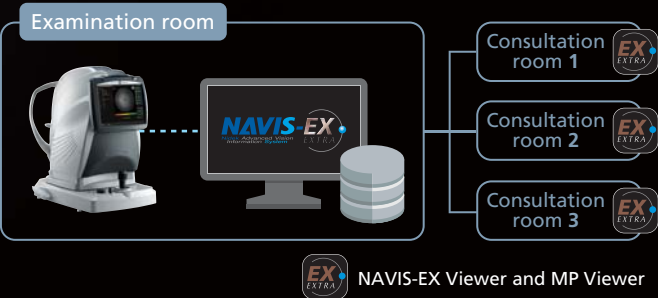
The MP-3 indicates the percentage of fixation points within 2° and 4° in diameter help confirm fixation stability.



Magnified Image of the Fixation Stability

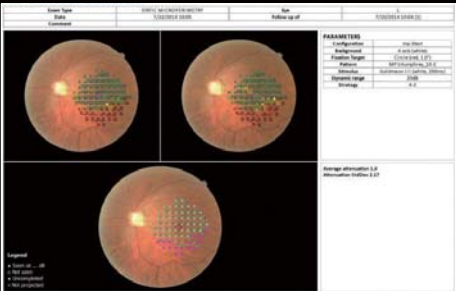
NAVIS-EX

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



Print Setup

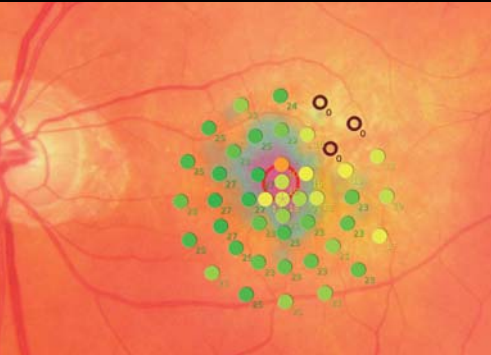
Various printed reports are available including user specified layouts when used with NAVIS-EX.



Print Image

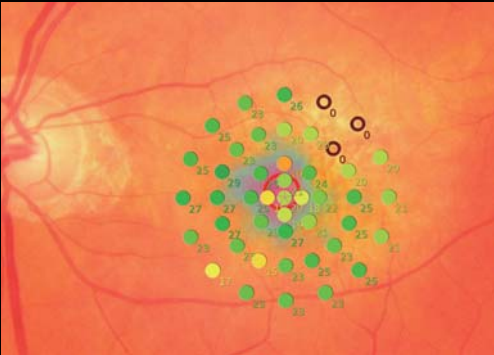
MP-3 Images of Pre- and Post-treatment Comparison

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



Pre-treatment

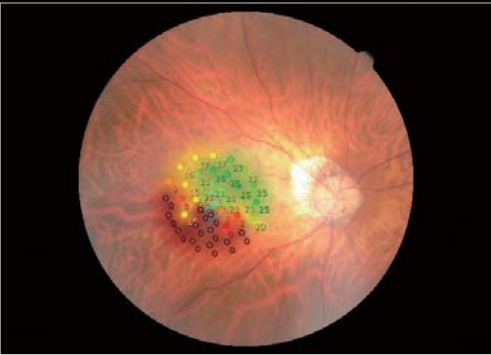
Circle at 2° Percentage of fixation points 66.1%
Circle at 4° Percentage of fixation points 92.1%
Mean sensitivity: 20.4



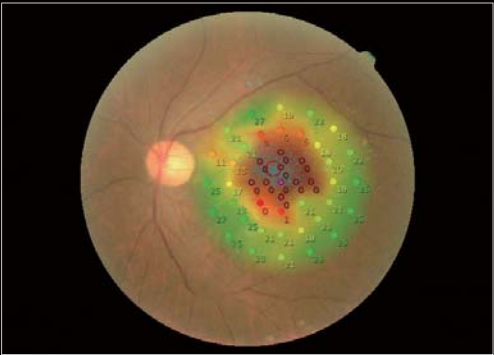
Post-treatment

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

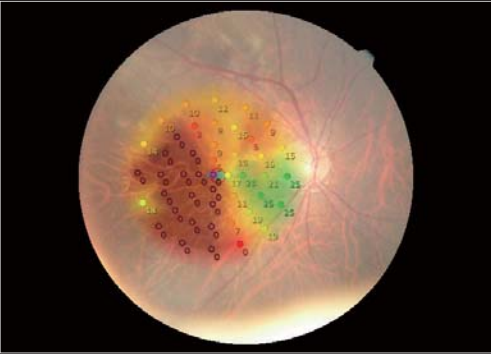
Cases of the Macular Disease



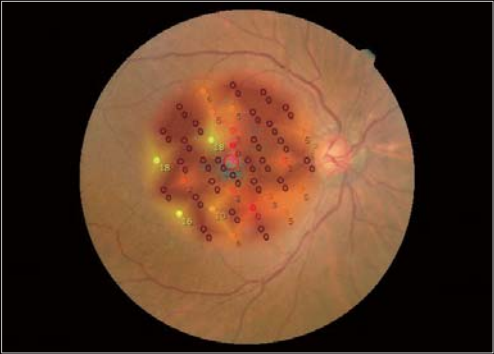
Epi Retinal Membrane



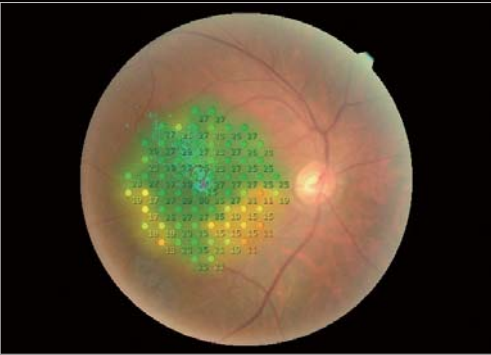
Age-related Macula Degeneration
(Geographic Atrophy)



Polypoidal Choroidal Vasculopathy



Retinal Angiomatous Proliferation



Central Serous Chorioretinopathy



Excessive Myopia

MP-3 Specifications

Microperimetry	
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
Fundus Camera	
Type	Non-mydiatic 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	X-Y-Z directions
Auto shot	Available
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 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.



Eye & Health Care

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