There have been significant advances in the assessment of retinal morphology due to the introduction of Optical Coherence Tomography 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 negate any variation between operators, leading to well-formed follow-up records.

**Fixation Test**

- The MP-3 can measure fixation and determine the preferred retinal locus, simply by having the patient fixate on a target. Any changes 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.

**MP-3 Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
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**Products and Accessories**

- **Microperimeter MP-3**: When ordering Microperimeter MP-3, please indicate the country and/or region for proper delivery.
- **Optional Accessories**: Optional accessories are required depending on your needs. Please contact NIDEK for further information.
The Automatic Microperimeter
With A Non-mydriatic Fundus Camera

**Functionality**

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.

Evaluation of Treatment
After completion of measurements, results can be evaluated in a specific region of interest to show interobserver comparison with other pathology images. By specifying the area of interest, the same results in the region are displayed.

Follow-up Test
A visual field test can be performed on the same area using the same parameters as a previous test. This feature allows observation 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 to help confirm fixation stability.

**User-friendly Functions**

Variation of Test Media
Several measurement modes are available for evaluating a variety of pathology including:
- Microperimetry/microperimetry test (visual sensitivity mapping)
- Fixation test
- Retinography
- Fundus photography
- Congruity analysis

Print Setup
Various print layouts are available including user specified layouts when used with NAVIS-EX.

**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.

Region-specific Test Evaluation
Cases of the Macular Disease

- **Excessive Myopia**
- **Central Serous Chorioretinopathy**
- **Epi Retinal Membrane**
- **Age-related Macula Degeneration (Geographic Atrophy)**
- **Polypoidal Choroidal Vasculopathy**
- **Retinal Angiomatic Proliferation**
- **Excessive Myopia**

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

**Print Image**

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

**Follow-up Image**

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

**Cases of the Macular Disease**

- **Epi Retinal Membrane**
- **Age-related Macula Degeneration (Geographic Atrophy)**
- **Polypoidal Choroidal Vasculopathy**
- **Retinal Angiomatic Proliferation**
- **Epi Retinal Membrane**

MP-3 Normal Eye Image (34 dB)

MP-3 Glaucomatous Eye Image (34 dB)

Fundus Camera Image

Start Image

Post-treatment Circle at 2° Percentage of fixation points 66.1%

Post-treatment Circle at 4° Percentage of fixation points 92.1%

Post-treatment Mean sensitivity: 20.4

Post-treatment

Post-treatment Circle at 2° Percentage of fixation points 83.4%

Post-treatment Circle at 4° Percentage of fixation points 95.5%

Post-treatment Mean sensitivity: 20.9
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 Microperimeter MP-3. 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.

MP-3 Specifications

Product / Model name: Microperimeter MP-3
Specifications may vary depending on circumstances in each country.
Specifications and design are subject to change without notice.

Fixation Test Image

MP-3 Image

Microperimeter
MP-3

THE ART OF EYE CARE

NIDEK CO., LTD.
The Automatic Microperimeter
With A Non-mydriatic Fundus Camera

Functionality
Wide Measurement Range
The MP-3 has a wider range of stimulus intensities, from 0 to 34 dB, compared to the MP-1. The MP-3 measures perimetric threshold values over a broader range of stimulus intensities.

Evaluation of Treatment
After completion of measurements, results can be evaluated in a specific region of interest to show under comparison with other pathology images. The specified test region of interest, the average results in the region are displayed.

Follow-up Test
A follow-up test can be performed on the same area using the same parameters as previous tests. The feature allows comparison 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, helping confirm fixation stability.

User-friendly Functions
Survey Measurement Mode
Several measurement modes are available for evaluating a variety of pathology, including:
- Microperimetry
- Macular Perimetry
- Visual sensitivity mapping
- Central fixation
- Fixation test
- Flank test
- Microperimetry
- Perimetric threshold
- Macular perfusion

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.

Print Setup
Various print layouts are available including user-specified layouts, used with NAVIS-EX.

Cases of the Macular Disease
- Epi Retinal Membrane
- Age-related Macular Degeneration (Geographic Atrophy)
- Polypoidal Choroidal Vasculopathy
- Retinal Angiomatous Proliferation
- Excessive Myopia
- Central Serous Chorioretinopathy
- Bardwell-Macula

MP-3 Images of Pre- and Post-treatment Comparison
Case of anti-VEGF treatment for age-related macular degeneration (AMD)

MP-3 Normal Eye Image (34 dB)
MP-3 Glaucomatous Eye Image (34 dB)
Fundus Camera Image
Post-treatment
Circle at 2° Percentage of fixation points 68.1%
Circle at 4° Percentage of fixation points 95.5%
Mean sensitivity: 20.9

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

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

Cases of the Macular Disease

MP-3 Images of Pre- and Post-treatment Comparison
Case of anti-VEGF treatment for age-related macular degeneration (AMD)

Region-specific Test Evaluation
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Cases of the Macular Disease

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MP-3 Specifications

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

Microperimeter MP-3

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