The new RAPiDo™ is a portable, all-in-one device which detects and quantifies

- **Relative Afferent Pupillary Defects (RAPD)**
- Pupil diameter under different light conditions
- Efferent Pupillary Defects

**RAPD**

The days of using the subjective and difficult to perform “swinging flashlight test” are over! Screen and assess retina or optic nerve disorders with ease!

- Simple to use and operate
- Reproducible measurement results in less than a minute by a technician
- Stimulates each eye with light
- Records both the right and left pupil responses simultaneously to **calculate the magnitude of the relative afferent pupillary defect** in light log units
Pupil Diameter for Refractive Surgery

- Provides very accurate measurement of pupil diameter for refractive surgery screening and planning (LASIK and IOLs) under: scotopic, low mesopic, and high mesopic conditions.

Efferent Pupillary Defects

- Detects efferent pupillary defects including: parasympathetic nerve deficits (e.g., oculomotor nerve, brainstem, Adie’s pupil).
- Sympathetic nerve defects (e.g., Horner’s syndrome) and pharmacological causes of unequal pupils.

Features

- Portable, battery operated binocular pupillometer
- No external computer required
- Touchscreen, user-friendly, LCD display
- Automatic pupil detection and tracking
- Automatic blink detection
- Patient data may be uploaded via USB
- Can be used as a hand-held device (for supine patients) or mounted onto a stand
- RAPD graphically displayed immediately after the measurement
- Normative range provided
- Internal memory for storing more than 1,000 records
- Records can be browsed using the touchscreen graphical interface
Ordering Information

NeurOptics® RAPiDo™ System Includes

<table>
<thead>
<tr>
<th>System Includes: RAPiDo™ Pupillometer, Instruction Manual, Power Supply</th>
<th>Part Number</th>
</tr>
</thead>
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Caution: Federal (USA) law restricts this device to sale by or on order of a physician. Refer to product package insert for instructions, warnings, precautions and complications.

Technical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measurement Characteristics</strong></td>
<td></td>
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<tr>
<td>Input</td>
<td>Human pupil sizing varying from 1 mm–9 mm</td>
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<tr>
<td>RAPD Mode</td>
<td>Relative Afferent Pupil Defect reported in light log units</td>
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<tr>
<td></td>
<td>Relative Efferent Pupil Defect reported as Left/Right percentage constriction difference</td>
</tr>
<tr>
<td></td>
<td>Pupil diameter</td>
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<tr>
<td>Pupil Size Mode</td>
<td>Mean and standard deviation of pupil diameter with no background illumination</td>
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<tr>
<td>Horner’s Syndrome Mode</td>
<td>Waveforms of the two pupil light reflexes</td>
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<tr>
<td>Accuracy</td>
<td>+/- 0.03 mm</td>
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</table>

Classification of the equipment against ingress of liquids: Ordinary equipment

Degree of safety of application in the presence of flammable anesthetic mixture with air or with oxygen or nitrous oxide: The equipment is not an AP or APG category equipment.

Mode of Operation

On Demand battery operation

Power Supply

Input: 100-240 VAC, 40-60Hz 1.6A

Output: 6V, 5A

Battery

3.7V 3350 mAh Li-Ion Cell

Operating Environment

Temperature Range: 18° C (65 F) to 30° C (86° F)

Relative Humidity: 20% to 70% RH. Non-condensing at all times

Transportation and storage environment

Temperature Range: 0° C (32° F) to 75° C (167° F)

Relative Humidity: 10% to 95% RH. Non-condensing at all times

Dimensions

Stand: 18” H, 11.5”W, 13.5”D

Console Module: 4”H, 6”W, 1.5”D

Camera Module: Min Inter-Pupillary Distance (IPD) – 5”H, 6”W, 5.5”D; Max IPD – 5”H, 7.5”W, 5.5”D

Charging Base: 2.75”H, 4.75”W, 4”D

Chin Rest: Min – 8.25”H, 4.5”W, 3”D
Max – 11.5”H, 4.5”W, 3”D

Weight

4.1 kg (9 lbs including the power supply)

Classification

Class 1 LED product per IEC 60825