Protektor32 LED Goggles

Instructions for Use:

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Website: natus.com

EU Representative / Importer
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Gort, Co. Galway, Ireland

Rx only

Associated product part number:
005031

Description:
Protektor32 LED Goggles are used as a visual stimulator to present flash stimuli via LEDs enclosed in Goggles. The flash stimulus is presented to patients who are undergoing diagnostic assessment of the ocular system during surgery in the operating room or in clinical environments.

Intended Use:
Protektor32 LED Goggles provide timed, visual stimuli for the purpose of generating Visual Evoked Potentials (VEP) from a patient. The VEP is a measurement of averaged waveforms acquired from the patient’s scalp evoked through goggle stimuli. The resulting waveforms are used to determine the integrity of the visual neural pathways.

This device is intended to be used by qualified medical practitioners, trained in Electroencephalography, Evoked Potentials and Electromyography, who will exercise professional judgment when using the information.
Intended User and Patient Target Group:

The Protektor32 LED Goggles are intended for use by skilled physicians and technologists trained in the specialty of evoked potential testing.

The target patient population is the pediatric and adult patient population requiring visual evoked potential testing in the operating room or clinical environment.

Clinical Benefits:

Goggles are useful during VEP testing for patients in the operating room environment or for patients who may not be able to attend to a stimulus presented via a monitor, such as patients with behavioral disorders or infants and children. Usage of VEP goggles for diagnostic purposes is at the discretion of the clinical provider.

Contraindications and Side Effects:

There are no known contraindications or side effects for procedures performed with Protektor32 LED Goggles.

Operating Instructions:

- Place the Protektor32 LED Goggles over the patient’s eyes with one LED stimulator cup over each eye. Ensure that each eye orbit is sufficiently sealed to minimize exterior light from entering the eye area.
- Secure the LED Goggles band comfortably around the head.
- Connect the LED Goggles cable into the Protektor32 system base at the Goggles connector.

Cleaning Instructions:

- Clean with a commercial wipe such as CaviWipes™ or Sani-Cloth® to remove visible soil.
- Wipe the article using a lint-free cloth and air dry.
- Keep all cleaning fluids away from the LEDs.
- Do not allow cleaning solutions to come into contact with the LED electronics or connectors.

Understanding Warnings and Cautions Statements:

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refers to a hazardous situation that could result in death or serious injury if not avoided.</td>
</tr>
<tr>
<td>• Information on how the hazardous situation is avoided.</td>
</tr>
</tbody>
</table>
**CAUTION**

Refers to a hazardous situation that could result in minor or moderate injury or material damage if not avoided.

- Information on how the hazardous situation is avoided.

**Warnings and Precautions:**

**WARNING**

Long-term exposure to excessive light can cause temporary and even permanent changes in visual acuity.

- Do not use LED goggles for prolonged period of time.

**CAUTION**

Device dropped or damaged in transit/use could lead to loss of function or delayed diagnosis.

- Inspect the device prior to each use and do not use if damaged.

System components immersed or in contact with liquids may cause electrical shock.

- Do not immerse, drip, or spray liquids onto the device.

Device is sterilized which leads to loss of function.

- Protektor32 Goggles cannot be sterilized.

**Environmental Specifications:**

Operating Conditions:

- Temperature: +10° (+50°F) and +40°C (+104°F)
- Relative Humidity: 30% to 75%
- Pressure: 700 hPa to 1060 hPa

Storage Conditions:

- Temperature: -40°C (-40°F) to +70°C (+158°F)
- Relative Humidity: 10% to 100%
- Pressure: 500 hPa to 1060 hPa

**Compliance Standards:**

- IEC 60601-1 Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
- IEC 60601-1-2 General requirements for basic safety and essential performance - Collateral Standard: Electromagnetic disturbances - Requirements and tests
Disposal Instructions:

Natus is committed to meeting the requirements of the European Union WEEE (Waste Electrical and Electronic Equipment) Regulations 2014. These regulations state that electrical and electronic waste must be separately collected for the proper treatment and recovery to ensure that WEEE is reused or recycled safely. In line with that commitment Natus may pass along the obligation for take back and recycling to the end user, unless other arrangements have been made. Please contact us for details on the collection and recovery systems available to you in your region at natus.com

Electrical and electronic equipment (EEE) contains materials, components and substances that may be hazardous and present a risk to human health and the environment when WEEE is not handled correctly. Therefore, end users also have a role to play in ensuring that WEEE is reused and recycled safely. Users of electrical and electronic equipment must not discard WEEE together with other wastes. Users must use the municipal collection schemes or the producer/importers take-back obligation or licensed waste carriers to reduce adverse environmental impacts in connection with disposal of waste electrical and electronic equipment and to increase opportunities for reuse, recycling and recovery of waste electrical and electronic equipment.

Equipment marked with the below crossed-out wheeled bin is electrical and electronic equipment. The crossed-out wheeled bin symbol indicates that waste electrical and electronic equipment should not be discarded together with unseparated waste but must be collected separately.

Disclaimer:

Natus Medical Incorporated DBA Excel-Tech Ltd. (Xltek) is not responsible for injury, infection or other damage resulting from the use of this product.

Any serious incident that has occurred in relation to the device should be reported to Natus Medical Incorporated DBA Excel-Tech Ltd. (Xltek) and the competent authority of the Member State in which the user and/or patient is established.

Refer to the Natus website for an electronic copy of this document.
## Glossary of Symbols:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Standards Reference</th>
<th>Standard Title of Symbol</th>
<th>Symbol Title as per Referenced Standard</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Device</td>
<td>-</td>
<td>-</td>
<td>An indication of Medical device</td>
<td>This product is a medical device.</td>
</tr>
<tr>
<td>Rx only</td>
<td>21 CFR Part 801.109(b)(1)</td>
<td>Labeling-Prescription devices</td>
<td>Prescription only</td>
<td>Indicates the product is authorized for sale by or on the order of a licensed healthcare practitioner.</td>
</tr>
<tr>
<td>ISO 15223-1 Symbol 5.1.1</td>
<td>Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied.</td>
<td>Manufacturer</td>
<td>Indicates the medical device manufacturer.</td>
<td></td>
</tr>
<tr>
<td>ISO 15223-1 Symbol 5.1.6</td>
<td>Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied.</td>
<td>Catalogue number</td>
<td>Indicates the manufacturer's catalogue number so that the medical device can be identified.</td>
<td></td>
</tr>
<tr>
<td>ISO 15223-1 Symbol 5.1.5</td>
<td>Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied.</td>
<td>Batch or Lot code</td>
<td>Indicates the manufacturer's batch code so that the batch or lot can be identified.</td>
<td></td>
</tr>
<tr>
<td>ISO 15223-1 Symbol 5.1.3</td>
<td>Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied.</td>
<td>Date of manufacture</td>
<td>Indicates the date when the medical device was manufactured.</td>
<td></td>
</tr>
<tr>
<td>ISO 15223-1 Symbol 5.4.3</td>
<td>Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied.</td>
<td>Consult instructions for use</td>
<td>Indicates the need for the user to consult the instructions for use.</td>
<td></td>
</tr>
<tr>
<td>ISO 60601-1 Table D.1 #11</td>
<td>Medical electrical equipment — Part 1: General requirements for basic safety and essential performance.</td>
<td>Operating instructions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISO 60601-1 Table D.2 #10</td>
<td>Medical electrical equipment — Part 1: General requirements for basic safety and essential performance.</td>
<td>Follow instructions for use</td>
<td>Refer to instruction manual/Booklet.</td>
<td></td>
</tr>
<tr>
<td>ISO 15223-1 Symbol 5.4.4</td>
<td>Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied.</td>
<td>Caution: Read all warnings and precautions in instructions for use</td>
<td>Indicates the need for the user to consult the instructions for use for important cautionary information such as warnings and precautions that cannot, for a variety of reasons, be presented on the medical device itself.</td>
<td></td>
</tr>
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<tr>
<td>![Warning Sign]</td>
<td>ISO 60601-1 Table D.2 #2</td>
<td>Medical electrical equipment — Part 1: General requirements for basic safety and Essential performance.</td>
<td>General warning sign</td>
<td>Indicates a hazard of potential personal injury to patient or operator.</td>
</tr>
<tr>
<td>![Temperature Limit]</td>
<td>ISO 15223-1 Symbol 5.3.7</td>
<td>Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied.</td>
<td>Temperature Limit</td>
<td>Indicates the (storage) temperature limits to which the medical device can be safely exposed.</td>
</tr>
<tr>
<td>![Humidity Limitation]</td>
<td>ISO 15223-1 Symbol 5.3.8</td>
<td>Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied.</td>
<td>Humidity Limitation</td>
<td>Indicates the range of (storage) humidity to which the medical device can be safely exposed.</td>
</tr>
<tr>
<td>![Latex Symbol]</td>
<td>ISO 15223-1 Symbol 5.4.5 (Reference Annex B for the general prohibition symbol)</td>
<td>Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied.</td>
<td>Not made with Natural Rubber Latex</td>
<td>Medical device does not contain natural rubber latex.</td>
</tr>
<tr>
<td>![WEEE Symbol]</td>
<td>2012/19/EU</td>
<td>Waste Electrical and Electronic Equipment (WEEE)</td>
<td>Disposal at end of operating life instructions</td>
<td>Indicates that electrical and electronic equipment waste should not be discarded together with unseparated waste but must be collected separately.</td>
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