A new method of near infrared fluorescent imaging

Visualize blood vessels and tissue perfusion in real time by observing fluorescence emitted by ICG dye.

Lightweight, compact design

Handheld camera features manual adjustment options including excitation light and camera mode.

Observation by ICG fluorescence

When ICG is administered as a bolus intravenously, the pde-neo II is able to visualize the ICG fluorescence to assess blood flow and tissue perfusion.

Fluorescence characteristics of ICG

After bonding with plasma protein in the blood, ICG will become excited with near infrared light and fluoresce at a slightly longer near infrared wavelength. The pde-neo II’s special sensor and filters will see this fluorescence clearly through a range of human soft tissues.
Various modes of visualization for more accurate observation

**Fluorescence Mapping Function**

The Fluorescence Mapping function creates a high contrast image by applying a green color to the near-infrared fluorescence images. Through a unique digital subtraction process, the non-fluorescent background of the image can be independently adjusted to the surgeon's preference.

**Focus adjustment (Near - Far)**

By turning the focus ring of the camera unit, you may observe either near or far focused images depending on the working distance.

**Color and B/W images**

Easily switch between a black and white fluorescent image to a full color image. This feature is helpful for comparing anatomy to the fluorescent image.

**White LED**

The white LED light feature illuminates the surgical field without compromising the fluorescent image. This is particularly helpful when OR lights have been turned off to prevent interference with the fluorescent image.

**Status display**

Turning on the status function will display the pde-neo II settings in real time. Quickly reference current brightness, contrast, and excitation light settings.
Configuration

- pde-neo II
  - Controller
  - Camera unit
  - Camera cable (5 m)
  - Remote controller cable (2 m)
  - BNC-BNC cable
  - Y/C cable
  - BNC-RCA conversion connector
  - Power supply cord
  - Spare fuse T2 A 250 V

For standard use

- Monitor
- ICG
- Sterilized drape

- Remote controller cable
- [Video output]
- Camera cable
- Remote controller
- [Video in]
- Y/C cable or BNC-BNC cable

- Video recorder, etc.

Specification

<table>
<thead>
<tr>
<th>Type No.</th>
<th>C10935-800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output signal (Analog)</td>
<td>Video NTSC format</td>
</tr>
<tr>
<td>Video output</td>
<td>2 ch (BNC), 1 ch (Y/C)</td>
</tr>
<tr>
<td>Line voltage</td>
<td>AC 100 V to AC 240 V, 50 Hz/60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Approx. 60 VA</td>
</tr>
<tr>
<td>Ambient operating temperature</td>
<td>+10 °C to +30 °C</td>
</tr>
<tr>
<td>Ambient operating humidity</td>
<td>20 % to 70 % (with no condensation)</td>
</tr>
<tr>
<td>Ambient storage temperature</td>
<td>-10 °C to +50 °C</td>
</tr>
<tr>
<td>Ambient storage humidity</td>
<td>20 % to 90 % (with no condensation)</td>
</tr>
</tbody>
</table>

Dimensional outline

<table>
<thead>
<tr>
<th>Dimension / Weight</th>
<th>Camera unit</th>
<th>Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approx. 80 mm (W) × 182 mm (D) × 80 mm (H) (not including projections)</td>
<td>Approx. 322 mm (W) × 283 mm (D) × 55 mm (H) (not including projections)</td>
</tr>
<tr>
<td></td>
<td>Approx. 0.5 kg (not including cables and accessories)</td>
<td>Approx. 2.6 kg (not including cables and accessories)</td>
</tr>
</tbody>
</table>

TFDA Approval Number: 031874
pde-neo is a registered trademark of Hamamatsu Photonics K.K. (EU, Japan, U.S.A.)
Specifications and external appearance are subject to change without notice.

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LED SAFETY
Exempt Risk Group (IEC 62471: 2006)