



pde-neo[®]II

Near infrared fluorescence imager C10935-400

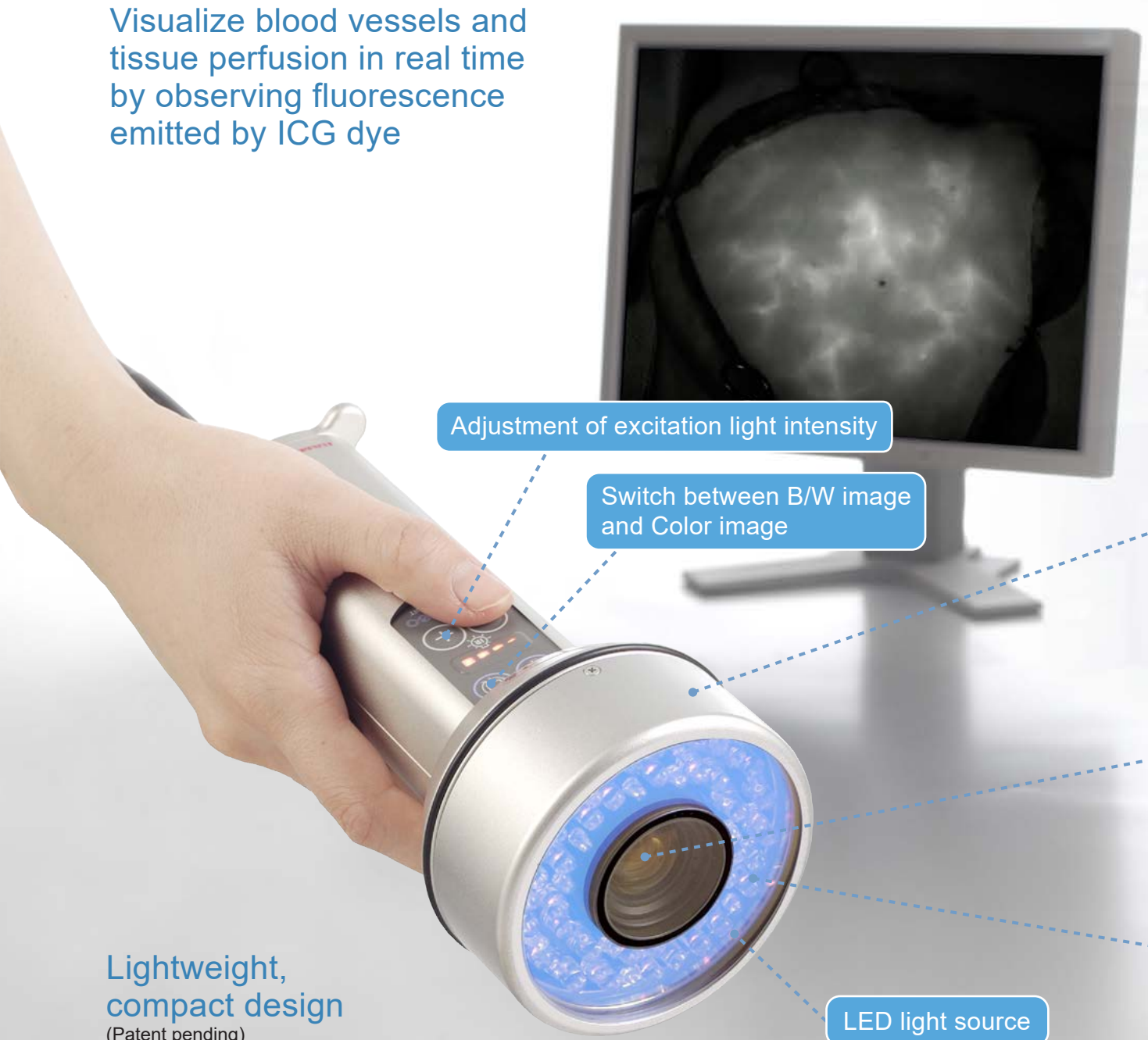
HAMAMATSU
PHOTON IS OUR BUSINESS

A new method of near infrared fluorescent imaging

Various modes of visualization for more accurate observation



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



Lightweight, compact design
(Patent pending)

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

Adjustment of excitation light intensity

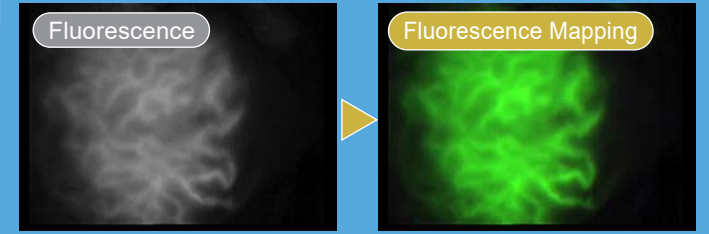
Switch between B/W image and Color image

LED light source

*Class 1M LED product

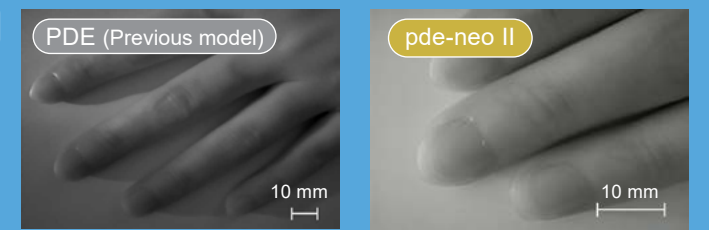
Fluorescence Mapping Function

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.



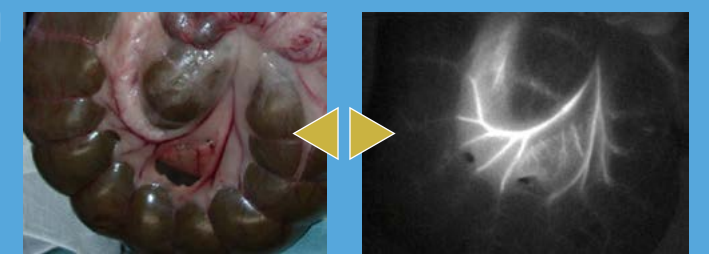
Focus adjustment (Near - Far)

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.



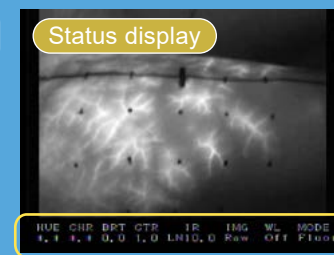
White LED

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.

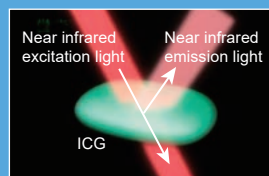


Observation by ICG fluorescence

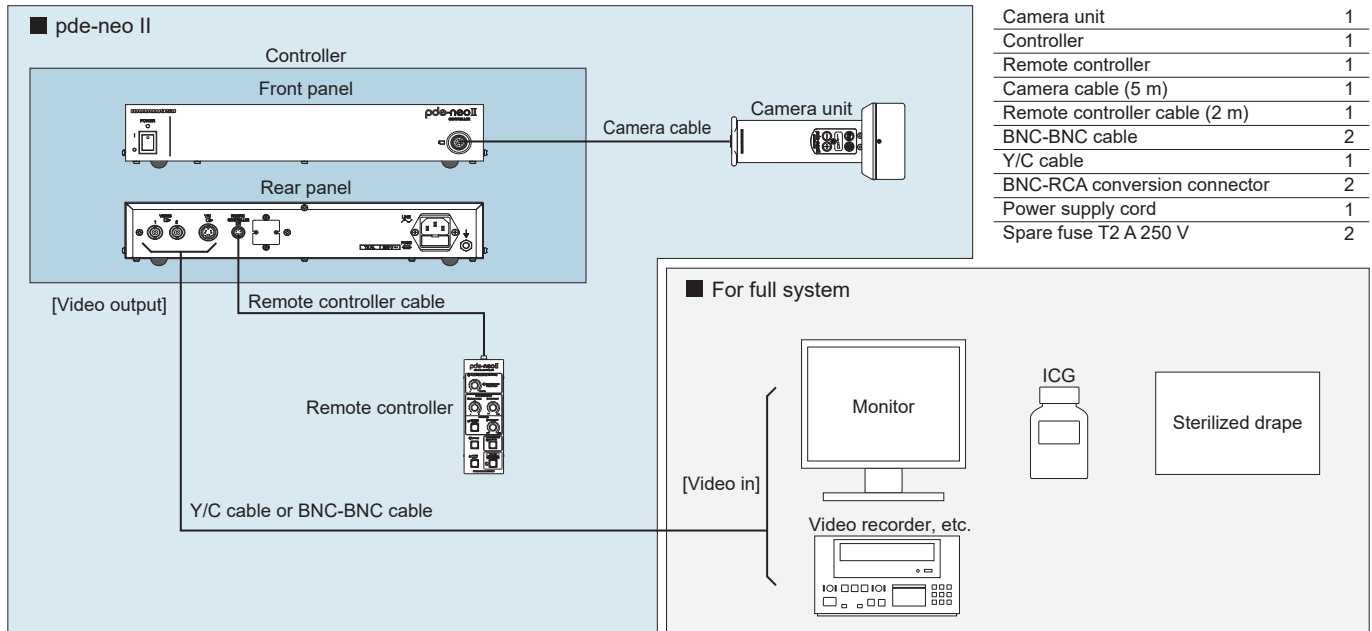
When ICG is administered as a bolus intravenously, the pde-neo II is able to visualize the ICG fluorescence to assess blood flow and tissue perfusion.

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.



Configuration



* The standard configuration of the pde-neo II does not include a monitor, video recorder, ICG or sterilized drapes. A user choosing to add a monitor should select one with a NTSC format and BNC, Y/C or RCA inputs.

Specification

Type No.	C10935-400
Output signal (Analog)	Video NTSC format
Video output	2 ch (BNC), 1 ch (Y/C)
Line voltage	AC 100 V to AC 240 V, 50 Hz/60 Hz
Power consumption	Max. 60 VA
Ambient operating temperature	+10 °C to +30 °C
Ambient operating humidity	20 % to 70 % (with no condensation)
Ambient storage temperature	-10 °C to +50 °C
Ambient storage humidity	20 % to 90 % (with no condensation)

Dimensional outline

Dimension / Weight	Camera unit	Approx. 80 mm (W) × 182 mm (D) × 80 mm (H) (not including projections)
	Controller	Approx. 322 mm (W) × 283 mm (D) × 55 mm (H) (not including projections)
		Approx. 2.6 kg (not including cables and accessories)

FDA 510(k) Cleared - K133719

Health Canada Medical Device Licence Number : 94607

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.

LED SAFETY

The pde-neo II is classified as a Class 1M LED product (IEC 60825-1:1993+A1:1997+A2:2001).

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