NEW

pde-neo®Ⅱ

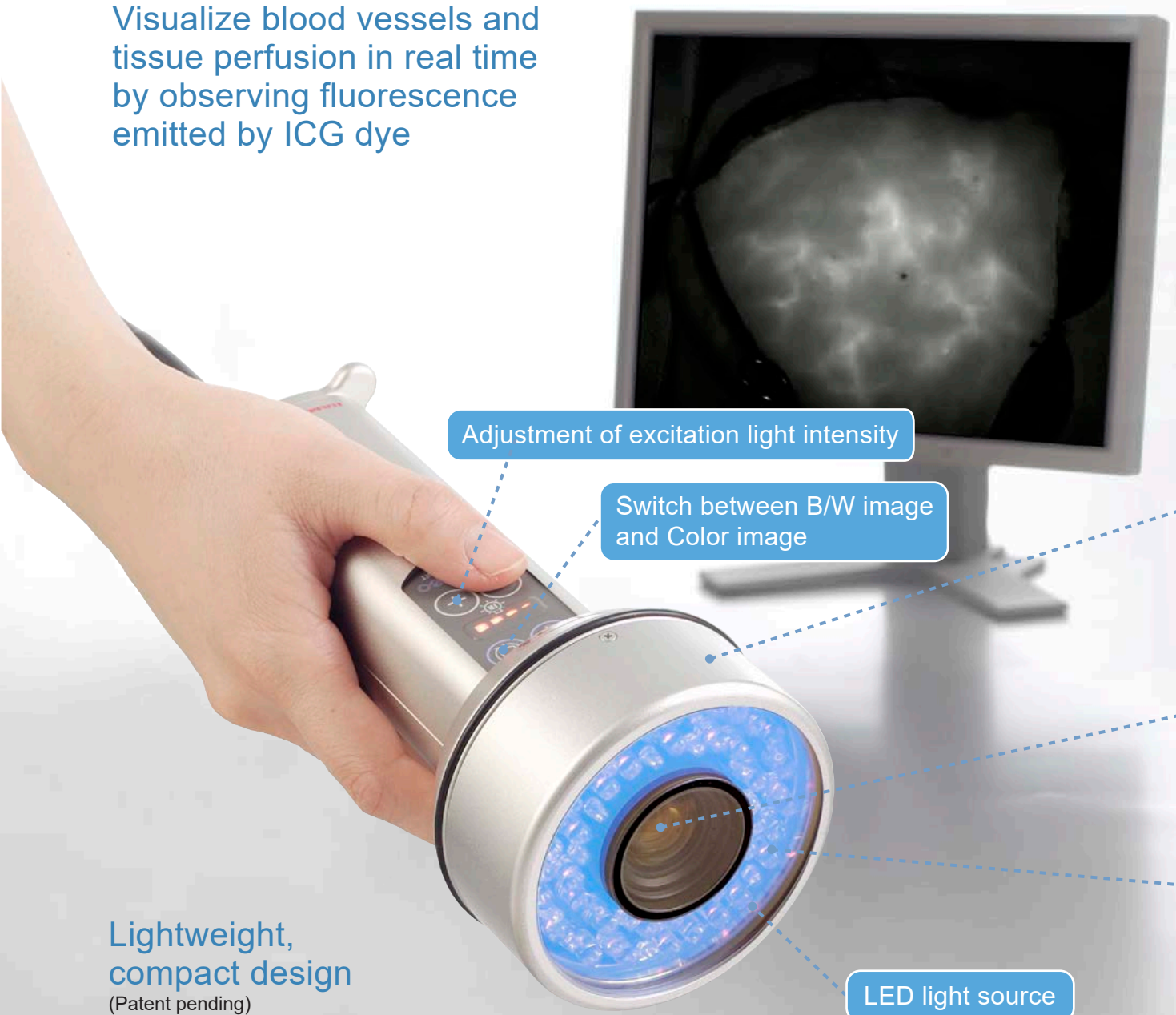Near infrared fluorescence imager C10935-300

A new method of near infrared fluorescent imaging

Various modes of visualization for more accurate observation

pde-neo II

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

Adjustment of excitation light intensity

Switch between B/W image and Color image

Lightweight, compact design
(Patent pending)

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

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.

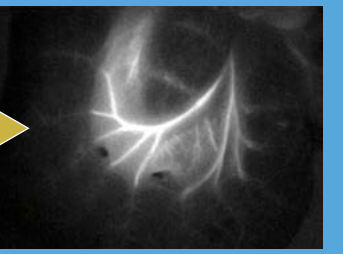Fluorescence

Fluorescence Mapping

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.

PDE (Previous model)

pde-neo II

10 mm

10 mm

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.
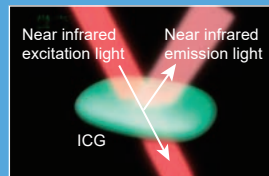
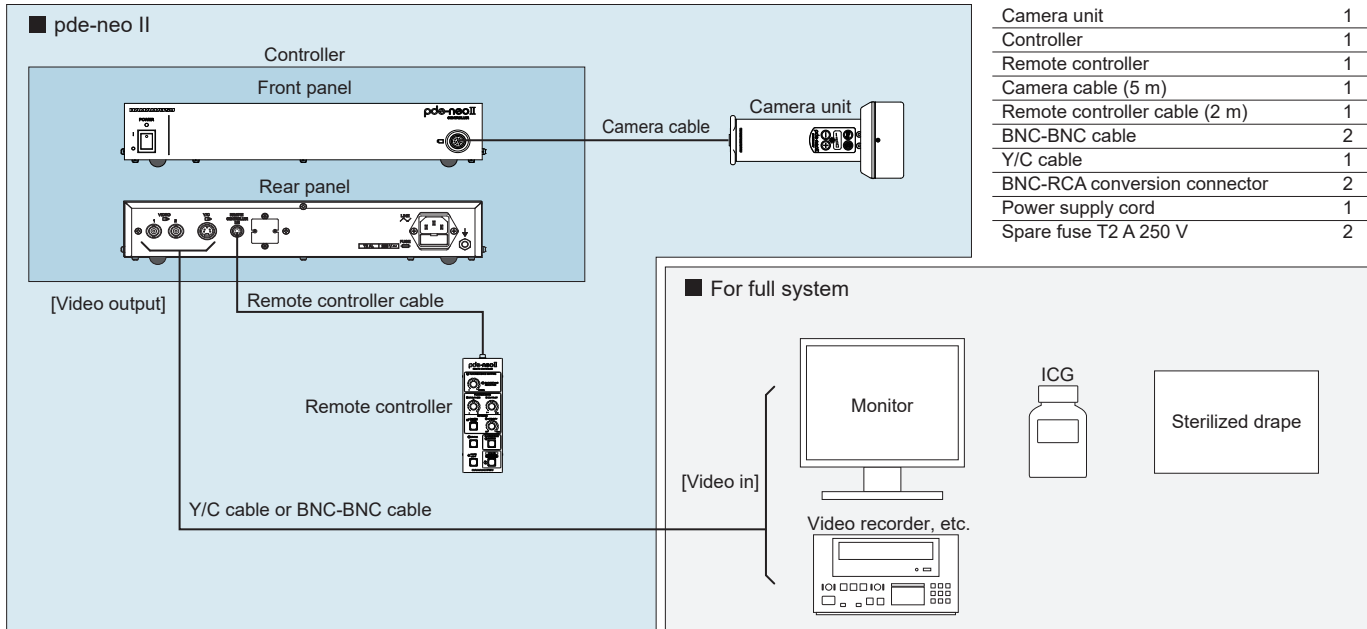Status display

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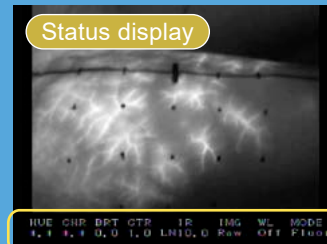
Observation by ICG fluorescence

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.

Near infrared excitation light

Near infrared emission light

ICG

Configuration

■ pde-neo II

Controller

Front panel

pde-neoII

Rear panel

Camera cable   Camera unit

[Video output]   Remote controller cable

Remote controller

Y/C cable or BNC-BNC cable

Camera unit	1
Controller	1
Remote controller	1
Camera cable (5 m)	1
Remote controller cable (2 m)	1
BNC-BNC cable	2
Y/C cable	1
BNC-RCA conversion connector	2
Power supply cord	1
Spare fuse T2 A 250 V	2

■ For full system

Monitor   ICG   Sterilized drape

[Video in]

Video recorder, etc.

*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 PAL format and BNC, Y/C or RCA inputs.

Specification

Type No.	C10935-300
Output signal (Analog)	Video PAL 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	Approx. 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)
		Approx. 0.5 kg (not including cables and accessories)
	Controller	Approx. 322 mm (W) × 283 mm (D) × 55 mm (H) (not including projections)
		Approx. 2.6 kg (not including cables and accessories)

pde-neo is a registered trademark of Hamamatsu Photonics K.K. (EU)
Product names noted in this documentation are trademarks or registered trademarks of their respective manufacturers.

CE European Medical Device Directive 2007/47/EC (93/42/EEC)

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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