

FLUOBEAM LM

Advanced technology to assess perfusion

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Over a decade of experience in fluorescence imaging, FLUOBEAM LM is an innovative solution for perfusion and lymphatic assessment.

FLUOBEAM LM with Indocyanine Green (ICG) is an integrated fluorescence imaging solution providing surgeons with a real-time image of the fluorescence in the operative field.

Its ease of use and ability to analyze images make it a major asset for surgeons.





Inject
Indocyanine Green (ICG)



Light
Lighting in situ of the fluorescent agent



Visualize
Real-time fluorescence assessment

FLUOBEAM LM



Panel PC (touch screen)
with its indication-oriented software

Ergonomic optical head
Class 1 laser

Mobile cart
4 brakes

Control box

Limited footprint





Ergonomic and intuitive

The design of the FLUOBEAM LM optical head was **developed to provide surgeons with a comfortable grip and intuitive handling during surgery**.

Its joystick ensures simplified navigation in software functionalities and gives the surgeon total autonomy when using the device.

- Ease of use
- Intuitive navigation in the acquisition modes
- Ergonomic grip of the optical head
- A joystick to control software functionalities
- Complete autonomy of the surgeon from the sterile field

High performance and safety

FLUOBEAM LM has been **designed to offer a high level of technical performance while ensuring the safety of users and patients**.

The homogeneity of the laser excitation allows large areas to be imaged uniformly. This feature provides consistent and reliable information given by the displayed image.



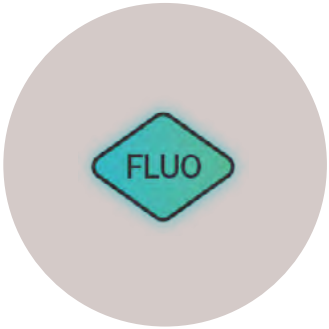
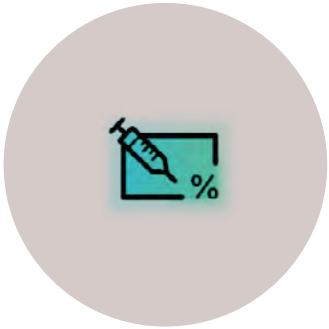
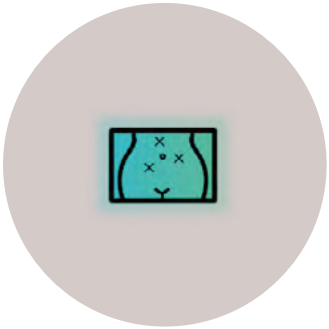
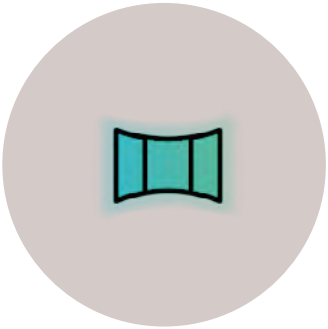
Indication-oriented software

FLUOSOFT LM imaging software offers several acquisition modes depending on clinical indications, so that surgeons can get the expected images.

- Pseudo-colorization with push of a button to assess perfusion with relative quantification
- Automatic tool to help in perforator vessels identification before flap dissection
- Panoramic images of the lymphatic drainage

This approach, combined with proven acquisition protocols, **helps prevents mishandling, and ensures great reliability.**

FLUOBEAM LM in action

Sentinel Lymph Node Biopsy	Breast surgery	Reconstructive surgery	Lymphatic surgery
Advanced	**Relative_Q**	**Mapping_Q**	**Panoramic**
			
	(skin sparing mastectomy)	(free flaps)	

Plastic and Reconstructive surgery

Fluorescence imaging provides qualitative information and propose a relative quantification tool for better perfusion assessment. This information enables surgeons to carry out a real-time objective analysis of the perfusion quality.

During reconstructive surgery with autologous flaps (free or pedicle), perfusion assessment is essential to avoid postoperative complications such as total or partial skin or fat necrosis.
FLUOBEAM LM provides surgeons with accurate information to assess tissue perfusion during reconstructive surgery (breast, head and neck reconstruction procedures).

- Help in identifying intraoperatively perforator vessels and perforator angiosome
- Real-time intraoperative tissue perfusion assessment
- More precise flap design according to the perfused areas
- Relative quantification tool (additional information to improve the specificity of the method)
- Early identification of complications
- Postoperative monitoring

Perforator identification



Free flap design



Skin perfusion assessment after skin-sparing mastectomy



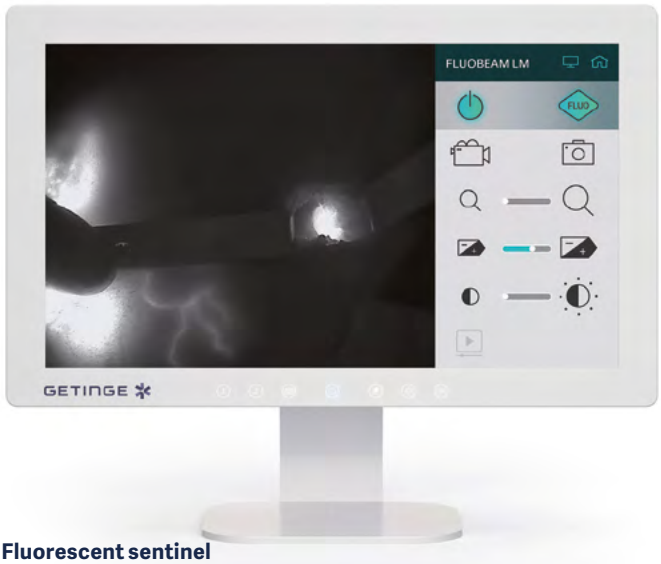
Axillary sentinel lymph node biopsy

The sentinel lymph node (SLN) procedure aims to detect, dissect and analyze lymph nodes.
FLUOBEAM LM allows the visualization of superficial lymphatic drainage and the detection of sentinel lymph nodes after skin incision.

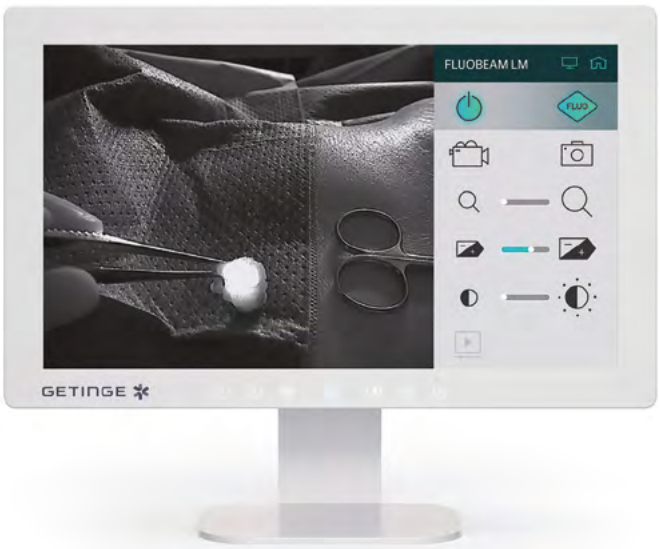
- High detection rate (similar to radioisotope)
- Direct visualization (lymphatic drainage and SLN)
- Simple patient care pathway (one injection only on the day of surgery)
- No exposure to radioactive product



Superficial lymphatic drainage visualization



Fluorescent sentinel lymph node in situ

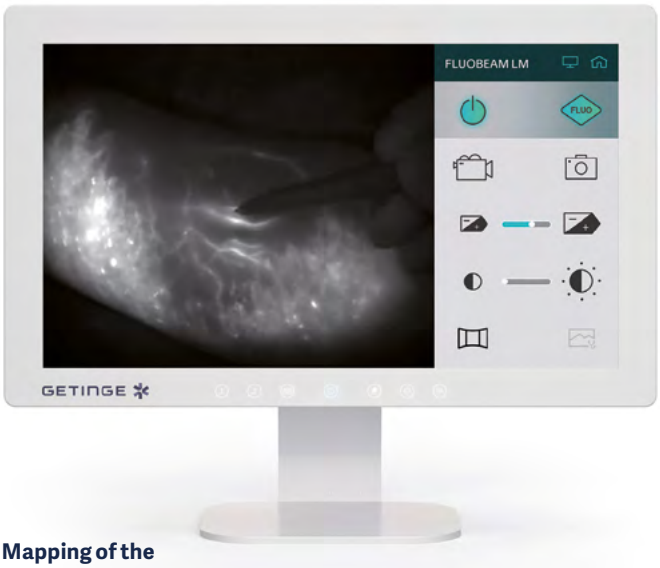


Fluorescent sentinel lymph node ex vivo

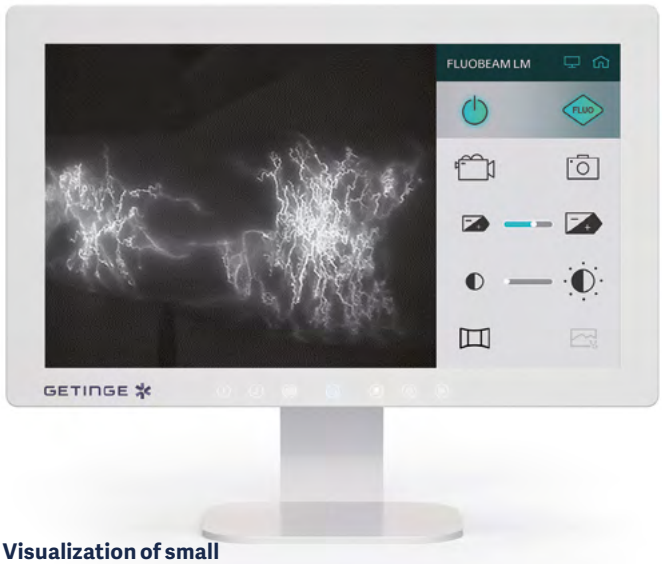
Lymphatic drainage visualization

During consultation or during surgery, FLUOBEAM LM is used to image in real-time functional superficial lymphatic vessels. It helps surgeons to select the most appropriate treatment, especially for lymphedema patients.

- Early identification and localization of lymphatic drainage deficiencies to establish appropriate treatment
- Accurate visualization of functional lymphatic vessels before lymphaticovenous anastomosis (LVA)
- Accurate location of lymph nodes during lymph node transfer surgery
- Post-treatment monitoring
- Reverse mapping capability



Mapping of the lymphatic network



Visualization of small lymphatic vessels



Panoramic view of the whole limb



Notes

FLUOBEAM LM is a Class IIa medical device in Europe (CE 0197), manufactured by FLUOPTICS SAS.

FLUOBEAM LM is indicated to visualize on a screen the flow, the distribution and/or the accumulation of Indocyanine green (ICG) before, during and after surgery for the indications such as: visualization of the blood flow, visualization of the lymphatic flow, visualization and identification of the bile ducts during hepatobiliary surgery, visualization and detection of primary liver tumors and/or hepatic metastases.

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