



# FLUOBEAM LM

Advanced technology to assess perfusion







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## Advanced technology to assess perfusion

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.



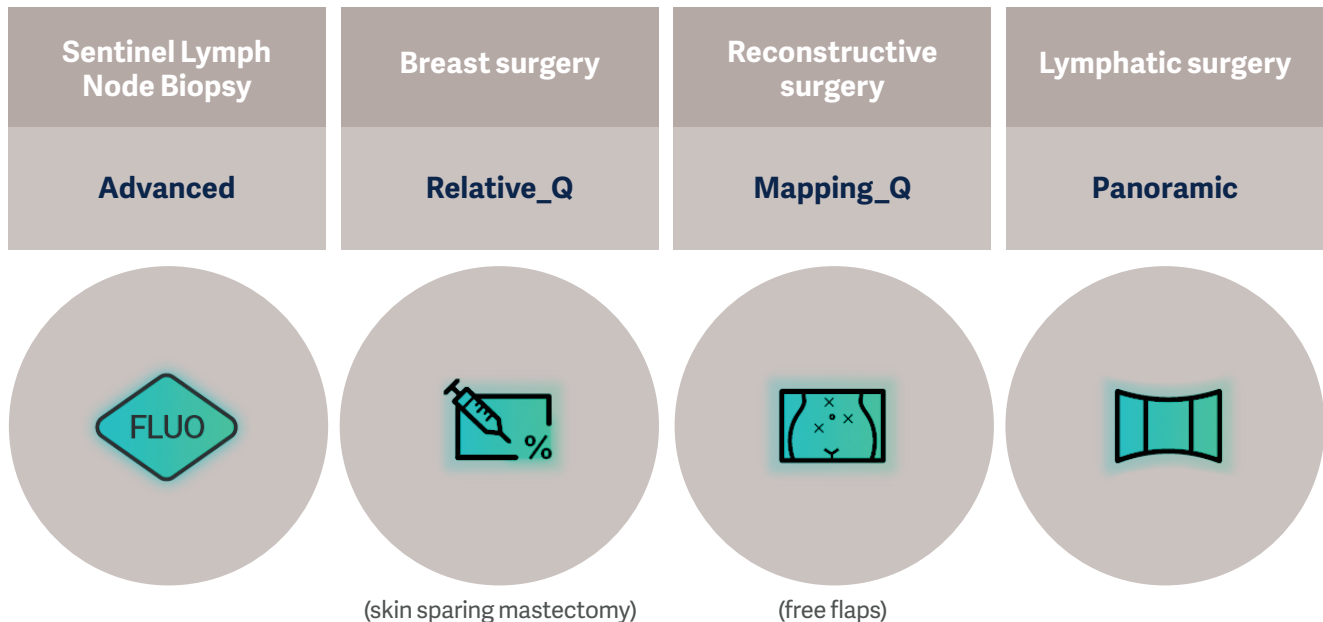
### Indication-oriented software

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



## 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).

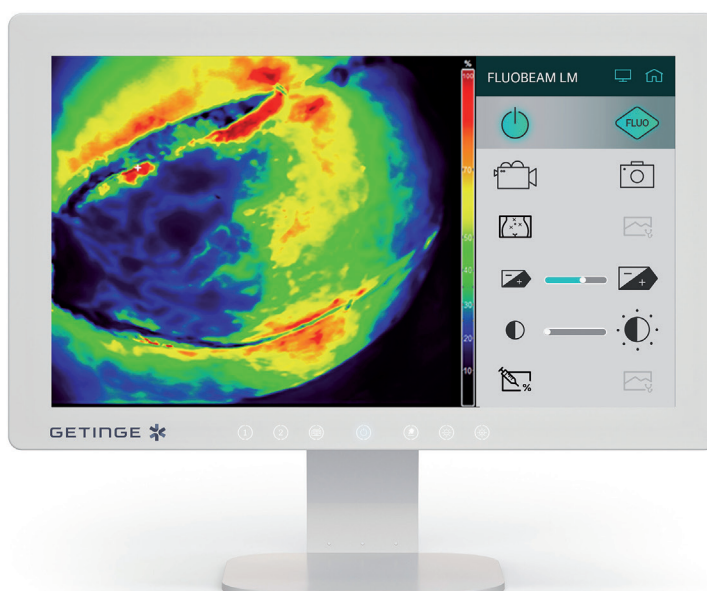
- Help in identifying intraoperatively perforator vessels and perforator angiosome
- Real-time intraoperative tissue perfusion assessment
- More precise flap design according to the perfused areas
- Relative quantification tool (additional information to improve the specificity of the method)
- Early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

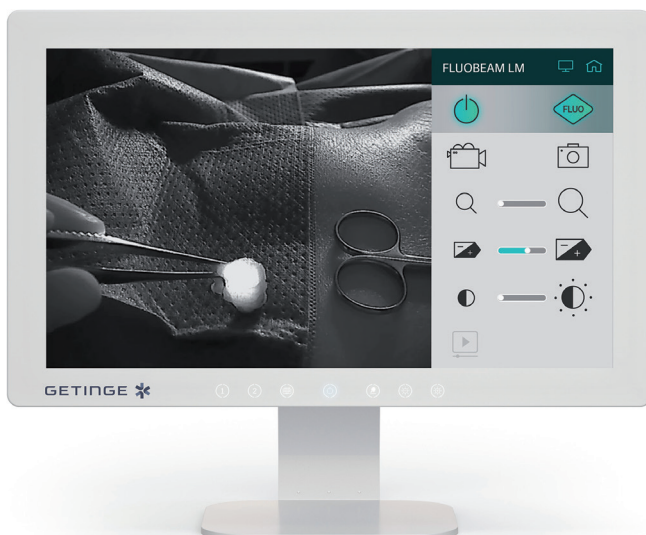
- High detection rate (similar to radioisotope)
- Direct visualization (lymphatic drainage and SLN)
- Simple patient care pathway (one injection only on the day of surgery)
- No exposure to radioactive product



**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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