

FLUOPTICS®

European leader in fluorescence imaging

www.fluoptics.com



The most gifted
camera of
its generation

FLUOBREAM®
PLASTIC AND
RECONSTRUCTIVE
SURGERY

Visualization of blood flow, before, during and after surgery

Thanks to several years of development in collaboration with international clinical teams, FLUOBEAM® was designed to fit in the operating room environment.

FLUOBEAM® is an integrated fluorescence imaging solution providing the surgeon 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.





Fluorescence
imaging,
a disruptive
technology



With fluorescence imaging less postoperative complication rate

Regardless of the surgeon's experience, the clinical assessment of the perfusion remains subjective and often insufficient in predicting postoperative complications. **Fluorescence imaging provides qualitative and quantitative information for a better perfusion assessment.** This information enables surgeons to carry out a real-time objective analysis of the perfusion quality.

The displayed images provide additional information, by improving surgeon's understanding in order to prevent eventual postoperative complications.



FLUOBEAM® IN ACTION

Breast reconstruction

FLUOBEAM® enables surgeons to assess in real-time the quality of tissue perfusion (flaps or skin after skin sparing mastectomy) and to modify his/her surgery to minimize complication risks.

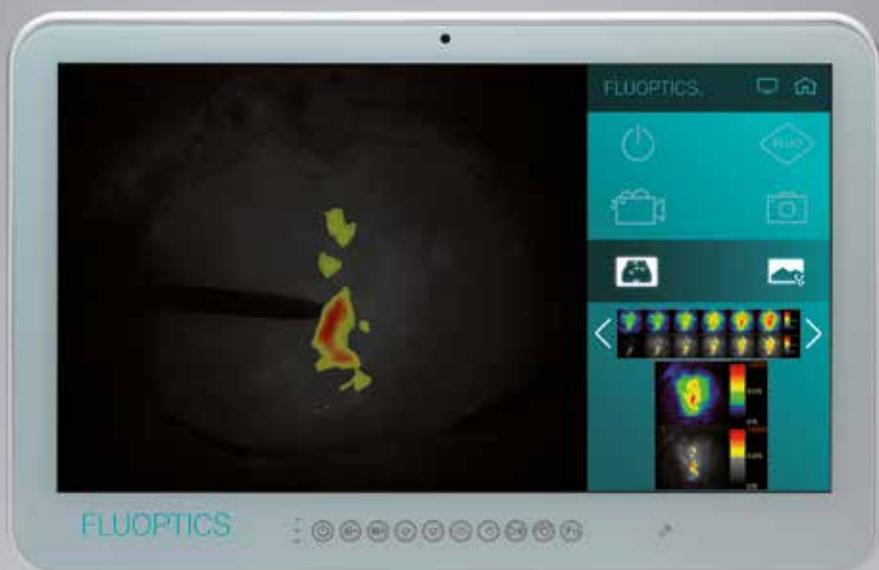
During reconstructive surgery with autologous flaps (free or pedicle), perfusion assessment is essential to avoid postoperative complications such as total or partial skin or fat necrosis. In case of a free flap, FLUOBEAM® can help surgeons to confirm the choice of **the best perforator** thanks to its didactic software which provides **a real-time dynamic perfusion image.**



Assaf Zeltzer, MD

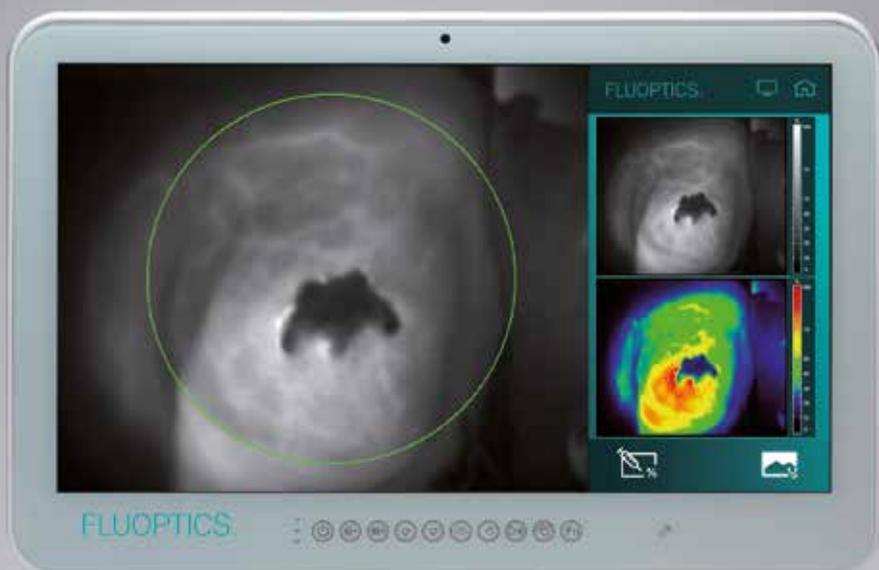
Plastic, Reconstructive and Aesthetic Surgery, UZ Brussel, Brussels, Belgium

**"When you do the imaging and you see something,
ICG is not going to lie, so you see as far you can take
your flap and how far you can take it safely."**



Perforator visualization

Relative quantification in case of perfusion assessment





Non-perfused free flap visualization

Perfused free flap visualization



FLUOBEAM® IN ACTION

Head and neck reconstruction

During reconstructive surgery, fluorescence imaging allows surgeons to check flap perfusion in real-time, and to reduce the risk of postoperative complications such as partial or total flap necrosis.

FLUOBEAM® enables surgeons to ensure good vascularization of the tissue.

For this indication, fluorescence imaging can also be used for postoperative flap evaluation to **anticipate potential complications such as venous thrombosis.**



Georges Bettega, MD

Head and Neck Reconstruction Surgery, Centre hospitalier d'Annecy, Annecy, France

"The interest is real to anticipate the occurrence of an accident, the main risk being that a vein or an artery clogs and then provokes a thrombosis. The sooner we intervene on a thrombosis, the better chance we have to save the flap."



FLUOBEAM[®]

integrated solution

Thousands of procedures already done.

Plastic and reconstructive surgery.

Parathyroid detection by autofluorescence
and perfusion assessment.

Lymphedema, wound care.

Partial hepatectomy and liver transplantation.

Sentinel lymph node biopsy for breast cancer and melanoma.

Installed Systems

The FLUOPTICS® technology is already used in:

France, Germany, the UK, Switzerland, Belgium, Italy, Spain, Morocco, Denmark, Finland, Greece, the Netherlands, Poland, Singapore, the US, Kuwait, Thailand, Taiwan, Hong Kong and India.

100
machines

10 000
procedures

20
countries



**FLUOBEAM® is a Class IIa medical device,
manufactured by Fluoptics.**

FLUOBEAM® 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.

FLUOBEAM® is also indicated to facilitate the visualization of parathyroid glands by auto-fluorescence (natural fluorescence without ICG injection) during thyroid and parathyroid surgeries.



The Fluoptics FLUOBEAM® Imaging system is intended to provide real-time near infrared (NIR) fluorescence imaging of tissue during surgical procedures.

The Fluoptics FLUOBEAM® Imaging system is indicated for use in capturing and viewing fluorescent images for the visual assessment of blood flow in adults as an adjunctive method for the evaluation of tissue perfusion, perfused organs, and related tissue-transfer circulation in tissue and free flaps used in plastic, micro- and reconstructive and organ transplant surgeries.

The Fluoptics FLUOBEAM® Imaging system can also be used to assist in the imaging of parathyroid glands and can be used as an adjunctive method to assist in the location of parathyroid glands due to the auto-fluorescence of this tissue.



Before the first use, user must read the medical device instructions for use and its label.

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life
behind
light



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