FLUOBEAM®
ENDOCRINE SURGERY

The most gifted camera of its generation
Parathyroid glands
real-time identification

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
Intraoperative fluorescence imaging: a precise and efficient method

Parathyroid glands identification can be challenging even for skilled surgeons due to their tiny size (a few mm) and that they are often buried in fat tissue or ectopic (located in atypical areas).

The unexpected excision of healthy parathyroid glands is a current complication of thyroidectomies. This can lead to hypoparathyroidism, most of the time transient, and might come with disruptions of calcium metabolism and notably hypocalcemia. **It is therefore critical to properly identify parathyroid glands during surgery.**
Unique to parathyroid glands emit fluorescence in the near infrared without any dye injection. This is called auto-fluorescence. FLUOBEAM® allows the surgeon to identify in real-time parathyroid glands and to preserve them during surgery.

FLUOBEAM® also allows surgeons to visualize parathyroid adenoma using auto-fluorescence. This detection guides the surgeon and makes resection easier.

"Fluorescence imaging in the near infrared significantly increases the number of parathyroid glands that are identified during thyroid surgery."

Fernando Dip, MD
Maxilo-facial and ENT surgery, University of Buenos Aires, Argentina & Cleveland Clinic, Florida, USA
Both parathyroid glands identification by autofluorescence

Parathyroid adenoma visualization by autofluorescence
A non-perfused parathyroid gland visualization

Well-vascularized parathyroid gland visualization
FLUOBEAM® IN ACTION

Checking the parathyroid gland vascularization

It is commonly known that complications such as transient hypocalcemia are linked to the unexpected excision of parathyroid glands or the alteration of the vascularization of these glands during thyroid surgery.

After intravenous injection of indocyanine green, FLUOBEAM® allows surgeons to clearly visualize the vascularization of the parathyroid glands and therefore to assess their viability during the surgery.

Sam Van Slycke, MD
Endocrine Surgeon, OLV Clinic Aalst, Belgium.

"Near infrared (autofluorescence) imaging in endocrine surgery is a helpful tool in confirming and visualization of parathyroid glands. It is an excellent teaching instrument for less experienced surgeons. In combination with ICG fluorescence it can change your intra-operative decision making!"
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.