Diagnostic Green

IC-Flow™ Imaging System

Introducing the most cost competitive fluorescence camera on the market for plastic and reconstructive surgery

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IC-Flow™ Imaging System is the most cost-effective CE approved hand-held imaging system on the market to help visualise blood flow before, during and after open surgical procedures. It is a compact and easy to use camera system to visualise and record tissue fluorescence.

IC-Flow Imaging System allows for easy assessment of tissue perfusion (such as flaps or skin after skin sparing mastectomy) to help reduce complication risks including partial or total flap necrosis.

FLUORESCENCE ANGIOGRAPHY AIDED BY THE IC-FLOW IMAGING SYSTEM ENABLES SURGEONS TO:

- Identify pre-operatively flap perforators
- Assess post-operatively tissue perfusion
- Check vascular anastomoses and flap perfusion
- Detect Sentinel Lymph Nodes

THE ADVANTAGE OF PERFUSION ASSESSMENT OF USING IC-FLOW IMAGING SYSTEM WITH ICG:

- Easy to implement[1]
- Allows for perforator mapping
- Provides perfusion assessment (flap and skin at attachment site)
- Optimises flap design
- Supports intraoperative flap monitoring
- Gives surgeon tool to facilitate flap planning, disssection and insertion[2]

COST BENEFITS ON USE OF IC-FLOW WITH ICG DURING RECONSTRUCTIVE SURGERY

Benefit in Reconstruction Surgeries

A comprehensive literature review of complications after breast reconstruction surgery revealed that laser-assisted ICG angiography uses to assess perfusion, consistently improved clinical outcomes and reduced costs with up to 81% reduction in breast reconstruction complications and an 84% reduction in skin flap necrosis.[3,4,8]

Increased costs associated with surgical complications	Potential savings with use of ICG in surgical procedures with Camera system
Necrosis following breast reconstruction - $11,076 inpatient costs per patient[5]	Up to $610 per patient due to reduced necrosis and reoperation[6,9]

COMPARE THE COST OF CAMERA SYSTEMS[7]

Camera system / Company	Relative expensive v's IC Flow (based on list price)	Features
IC Flow / Diagnostic Green	**Least expensive device on the market**	Small, compact, hand-held, Black & White, Raw data export function
PDE Neo II / Hamamatsu	**x1.5** times more expensive	Small, compact, hand-held, Colour overlay, no data export function
Hypereye / Mizohu Medical	**x2.1** times more expensive	Small, compact hand-held, Colour overlay, no data export function
Fluobeam / Fluoptics	**x3.4** times more expensive	Small, compact, hand-held, Colour overlay, raw data export function
Spectrum / Olympus	**x2.8** times more expensive	Endoscope device with hand-held module, Colour, data export function
SPY PHI / Stryker	**x5** times more expensive	Small, compact, hand-held, colour, raw data export function
EleVision / Medtronic	**x6.8** times more expensive	Endoscope device with hand-held module, Colour, data export function

IC-FLOW HANDHELD CAMERA AND SYSTEM OPTIONS

IC- FLOW HANDHELD SYSTEM

- Compact and portable
- Integrated display
- Easy to use
- Easy transfer of data to USB stick
- No additional equipment required

IC-FLOW COMPACT TROLLEY SYSTEM

- Compact integrated system
- Convenient and portable
- Flexible configuration available with or without monitor

IC-FLOW CART SYSTEM

- Portable Operating Room System
- Integrated system with monitor
- External USB for official recording of patient data
- Extendable arm to hold camera

UNIQUE BENEFITS

Backed by Diagnostic Green, the global supplier of ICG and 30 years' experience in perfusion imaging, the IC-Flow Imaging System, is a small, yet powerful imaging device for you and your surgical team.

- Fast boot-up time
- Simple and easy to use with minimal training required
- Flexible configurations to meet speciality needs
- Full OR System
- Portable Point of Care System
- Safe use with the benefit of LED rather than laser light source
- Maintenance free

TESTIMONIALS

"The cost benefit of the IC-FLOW Imaging System is more than justified. This portable camera is easy to use and provides an efficient fluorescence image."

Prof Jaume Masia - Hospital de la Santa Creu I Sant Pau, Barcelona, Spain

IC Flow Imaging system is "user friendly, affordable and compact"

Dr Jorge Falco - University of Buenos Aires

For more information please check out https://diagnosticgreen.com/row/ic-flow-imaging-system-lp/ or contact us on info@diagnosticgreen.com

REFERENCES

[1].Hembd AS, Yan J, Zhu H, Haddock NT, Teotia SS. Intraoperative Assessment of DIEP Flap Breast Reconstruction Using ICG Angiography: Reduction of Fat Necrosis, Resection Volumes and Post-operative Surveillance. Plast Reconstr Surg. 2020 Apr 13.

[2].Bigdeli AK, Thomas B, Falkner F, Gazyakan E, Hirche C, Kneser U. The Impact of Indocyanine-Green Fluorescence Angiography on Intraoperative Decision-Making and Postoperative Outcome in Free Flap Surgery. J Reconstr Microsurg. 2020 Oct;36(8):556-566.

[3].Chatterjee A. A comparison of free autologous breast reconstruction with and without the use of laser-assisted indocyanine green angiography: A cost-effectiveness analysis. Plast Reconstr Surg. 2013;131(5):693e-701e.

[4].Harless CA, Jacobson SR. Tailoring through technology: A retrospective review of a single surgeon's experience with implant-based breast reconstruction before and after implementation of laser-assisted indocyanine green angiography. Breast J. 2016;22(3):274-281

[5].Yalanis GC, Nag S, Georgek JR, Cooney CM, Manahan MA, Rosson GD, et al. Mastectomy weight and tissue expander volume predict necrosis and increased costs associated with breast reconstruction. Plast Reconstr Surg Glob Open. 2015 Aug;3(7):e450.

[6] Losken A, Schaefer TG, Newell M, Styblo TM. The impact of partial breast reconstruction using reduction techniques on postoperative cancer surveillance. Plast Reconstr Surg 2009 Jul;124(1):9-17.

[7] Third party market research undertaken on cost of camera systems 2019-2021, with all price comparisons based on list price for devices in Europe

[8] Johnson, Ariel C. BS; Colakoglu, Salih MD; Chong, Tae W. MD; Mathes, David W. MD. Indocyanine Green Angiography in Breast Reconstruction: Utility, Limitations, and Search for Standardization. Plastic and Reconstructive Surgery - Global Open 8(3):p e2694, March 2020. | DOI: 10.1097/GOX.0000000000002694

[9] Vettoretto N, Foglia E, Ferrario L, Gerardi C, Molteni B, Nocco U, Lettieri E, Molfino S, Baiocchi GL, Elmore U, Rosati R, Currò G, Cassinotti E, Boni L, Cirocchi R, Marano A, Petz WL, Arezzo A, Bonino MA, Davini F, Biondi A, Anania G, Agresta F, Silecchia G. Could fluorescence-guided surgery be an efficient and sustainable option? A SICE (Italian Society of Endoscopic Surgery) health technology assessment summary. Surg Endosc. 2020 Jul;34(7):3270-3284. doi: 10.1007/s00464-020-07542-3. PMID: 32274626

IC-Flow™ Imaging System Intended Use

IC-Flow™ Imaging System received CE mark as a Medical Device Class I

IC-Flow Imaging System 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: visualisation of the blood flow; visualisation of the lymphatic flow; visualisation of the bile ducts during hepatobiliary surgery; visualization of primary liver tumors and/or hepatic metastases.
The IC-Flow Imaging System is used as an adjunctive method for visual assessment.

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