

# Company Vision and Strategy

The Diagnostic Green company is the leading provider of trusted high quality fluorescence products for physicians worldwide.



#### **Our Vision**

Diagnostic Green was established to provide high quality fluorescence imaging products to physicians worldwide. Our vision is to ensure that fluorescence imaging becomes the standard in tissue visualization worldwide, to help improve clinician outcomes, minimize procedure complications and thereby reduce overall healthcare costs.

We aspire to maintain our global leadership in the manufacture and distribution of ICG Diagnostic Products with guaranteed availability of high quality products – anytime, anywhere.



# Diagnostic Green Core Values

The Diagnostic Green's core values serve as a foundation for the way we conduct business with our distributors, customers and physicians.







**Professionalism** 



Accountability



**Teamwork** 



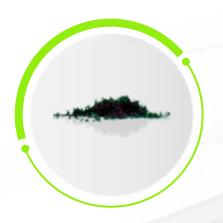
**Excellence** 



Flexibility



# **Company**History











1991

Registration of ICG Diagnostic Product in Europe

2001

Launch of handheld imaging system in major European territories

2015

Renew Group Private Ltd acquire both Diagnostic Green GmbH, and Diagnostic Green LLC

2016

IC-Flow™ Imaging System receives CE mark VERDYE, new product name for ICG in certain territories

2019

Diagnostic Green's ICG pharmaceutical product expands to new territories worldwide



# ICG Diagnostic Product





## **ICG** Diagnostic

#### **Product**

Diagnostic Green's Indocyanine Green (ICG) is the leading fluorescence product trusted by physicians worldwide, to guide their treatment procedures, based on fluorescence.

ICG Diagnostic Product, is well known and accepted by surgeons worldwide (over 11,000 published articles on use and applications)\*

#### **Key Features**

- Well tolerated
- Excellent safety profile
- Half-life of 3-4 minutes

- Cleared exclusively through the liver
- Eliminated through the bile
- Not metabolized or broken down

\*https://www.ncbi.nlm.nih.gov/pubmed/?term=indocyanine+green



# Approved ICG Diagnostic Product Indications



#### Cardiac, circulatory & micro-circulatory diagnostics

- Measurement of cardiac output and stroke volume
- Measurement of circulating blood volumes
- Measurement of cerebral perfusion



Liver function diagnostics



**Ophthalmic Angiography Diagnostics** 

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## Chemical Description (CH<sub>2</sub>)<sub>4</sub> (CH<sub>2</sub>)<sub>4</sub> SO<sub>3</sub> SO<sub>z</sub>Na



- Chemical Description: Tricarbocyanine Dye
- Appearance: Lypophilized green powder
- Empirical Formula: C<sub>43</sub>H<sub>47</sub>N<sub>2</sub>NaO<sub>6</sub>S<sub>2</sub>





## **ICG Diagnostic Product**

Prescription only Medicine (POM/Rx Only)

Active substance: Indocyanine Green (lyophilized powder)

Purpose of use: perfusion diagnostic (fluorescence)



#### Conditions of Use:

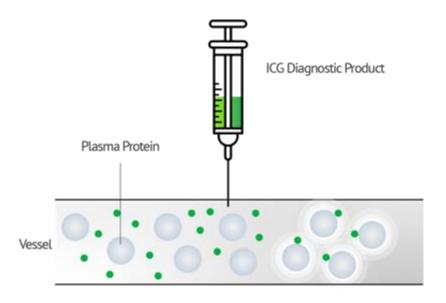
- Dissolve in water for injection and inject intravenously
- Keep away from light after it is reconstituted
- Sterile product, intended for a single patient use only
- Dosage depends on the indication and weight of the patient



# ICG Diagnostic Product

#### Features:

- After injection the ICG binds rapidly to the blood plasma proteins (98%) and remains within the blood vessels
- It is cleared exclusively through the liver, not reabsorbed in the intestines and eliminated through the bile
- Intravenous indication: half-life is 3-4 min
- The substance is not metabolized or broken down



#### **Excellent safety profile:**

- Well-tolerated
- Contains up to 5 % of the salt sodium iodide and so is used with caution in patients who have a history of allergy to iodides



## Verdye

Safety Profile

(ICG Pharmaceutical Product)



through the liver



Proud Supporter



powder for solution for injection indocyanine green

25 mg vial. For intravenous use. Read the package leaflet before use



Batch 25UK06301 EXP 06/2022



into the bile





## **ICG** Worldwide

## Registration & Distribution



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# www.diagnosticgreen.com

## **IC-Flow™ Imaging System**

IC-Flow™ Imaging System is a compact and easy to use handheld device that visualizes and records tissue fluorescence.



#### EG-Konformitätserklärung (gemäß EG-Richtlinie 93/42/EWG, Anhang VII vom Juni 1993)

#### **Declaration of Conformity**

(according to MDD 93/42/EEC, Annex VII dated June 1993)

Diagnostic Green GmbH Otto-Hahn-Straße 20 85609 Aschheim-Dornach Germany

erklärt in alleiniger Verantwortung, dass das Produkt

declares under its sole responsibility that the product

#### PC6200 IC-Flow Imaging System Seriennummer/Serial number SN00001-SN00999

auf das sich diese Erklärung bezieht, mit folgender Richtlinie übereinstimmt:

Bewertungsverfahren nach EG-Richtlinie für Medizinprodukte 93/42/EWG. Anhang

Klassifizierung nach Richtlinie 93/42/EWG, Anhang IX:

Aktives Medizinprodukt der Klasse I

Gemäß §9 Medizinproduktegesetz wurde dieses Produkt aufgrund der Erfüllung der Grundlegenden Anforderungen nach Richtlinie 93/42/EWG, Anhang I mit der CE-Kennzeichnung versehen.

to which this declaration relates is in conformity with the following directive:

Evaluation procedure according to MDD 93/42/EEC. Annex VII

Classification according to MDD 93/42/EEC. Annex IX:

#### Active medical device class I

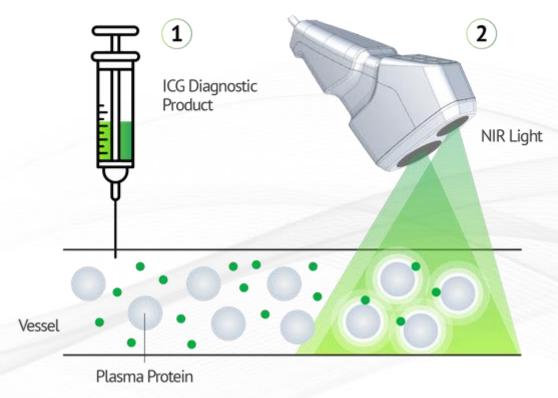
Corresponding to §9 German medical devices law (MPG) this product has been CE-marked due to the fulfilment of the essential requirements according to MDD 93/42/EEC, Annex I.



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## 1 Inje

#### Injection



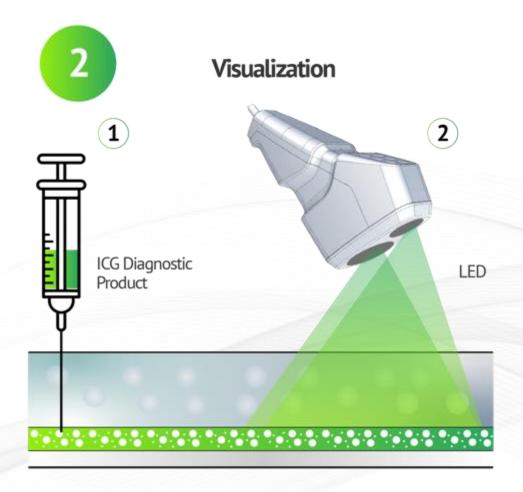
## **IC-Flow**<sup>™</sup> **Imaging System**

**How it Works** 

ICG diagnostic product is reconstituted and injected

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#### **How it Works**

- Through the use of a camera system, such as IC-Flow™
   Imaging System, a near-infrared light is exhibited
- The light source excites the ICG diagnostic product molecules in the patient
- The ICG diagnostic product emits fluorescence
- Fluorescent light of ICG diagnostic product is detected by the camera filters
- Images are displayed on camera system monitor

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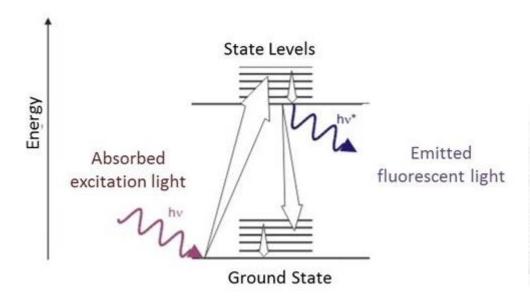


## Fluorescence Principle

#### **Features**

- Fluorescence: substance which releases light when it is illuminated (at a certain wavelength)
- Chemical reaction: the electrons of the ICG molecules absorb the illuminating light (excitation light) and are pushed into a higher energy level
- The electrons fall immediately back to their original energy level. The released energy appears in the form of fluorescent light (emission light)

#### Fluorescence Process



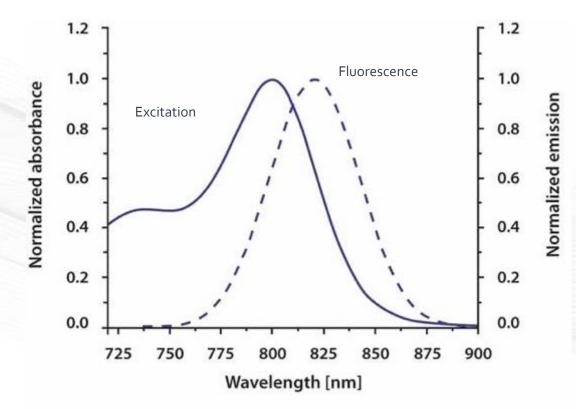
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## Fluorescence Principle

#### ICG Wavelength

- Both absorption and fluorescence maximum of ICG are within the near-infrared spectral range
- Therefore, to detect the fluorescence light the camera requires special filters



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## **IC-Flow**<sup>™</sup> Imaging System





#### **Handheld System**

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

#### **Operating Room System**

- Portable cart system
- Integrated system with monitor
- External USB for official recording of patient data
- Display of fluorescence image on both touchscreen



# IC-Flow<sup>™</sup> Imaging System Technical Features

Images/ Display	Display of fluorescence image on monitor and touchscreen
Internal memory	Internal memory of 800 MB (100 min videos/ 1000 images) Transfer to USB stick
Video format	MPEG1
Picture format	JPEG
Field size of view	640 x 480 pixel
Focus/ zoom Work distance	Manual/No Approx. 15-20 cm
Light source	LED
Functions:	Video & image recording Data transfer to USB stick







## IC-Flow<sup>™</sup> **Imaging System**

## **Procedure Steps**

- Set up the device
- Pre-adjust the camera settings
- Prepare ICG injection
- Adjust the ambient light
- Adjust the camera settings
- Administer the ICG injection
- Undertake the fluorescence procedure
- Transfer data to USB stick

## **IC-Flow**<sup>™</sup> **Imaging System**

Registration & Distribution

IC-Flow<sup>TM</sup> Imaging System is currently available in all territories where the CE approval mark is accepted and include:



- Austria
- Belgium
- Bulgaria
- Czech Republic
- Cyprus
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary
- Iceland
- Ireland
- Italy

- Latvia
- Liechtenstein Lithuania
- Luxembourg
- Malta
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Slovakia
- Slovenia
- Spain
- Sweden
- United Kingdom

Also available in Chile

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March 2016 IC-Flow™ Imaging System received CE mark as Medical Device Class I



#### Intended Use:

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



