

# OptiVantage<sup>®</sup>

## Multi-use

UNCOMPROMISED EFFICIENCY & PATIENT SAFETY



Guerbet | 

 COMMITTED



*Contrast media injectors* are widely employed in radiology procedures and have become a necessity for optimal imaging. Today's injectors are easily operated both at the bedside and remotely, and are optimized to adapt to the latest examination protocols. An optimal injector should enable swift and comfortable changes between patients in addition to saving time and money and being user friendly.

FOR THE PATIENT

# SAFETY

OUR MAIN PRIORITY IS TO IMPROVE THE DESIGN OF OUR INJECTORS WHILE OPTIMIZING BOTH HYGIENE AND SAFETY

## LOWER RISK OF CONTAMINATION AND INFECTION

Our commitment	Our secrets for success	
 <p>Maintain a high level of hygiene for 8 hours<sup>1</sup></p> 	 <p>All in one pre-connected manyFill® day-set</p> <ul style="list-style-type: none"> <li>• Closed system: avoid multiple connections</li> <li>• Air and particle filters</li> </ul>	 <p>Secufill® patient line: proven double safety valve<sup>2</sup></p> 

## LOWER RISK OF EXTRAVASATION AND AIR INJECTION

Our commitment	Our secrets for success		
 <p>Minimize these problems thanks to specifically-designed technical specifications</p>	 <p>Patency Check®: saline injection to confirm fluid pathway prior to injection</p>	 <p>Tilt enable: prevents injection until the correct enabling sequence has been completed</p>	 <p>Newly designed software: for a safer multipatient process</p>

1. Refer to manyfill instructions for use

2. Vermeulen C, Noury B & Al. - Microbial Safety Assessment of a Double Check-Valve Patient Line in a Multi-use Contrast Delivery System - Radiol Technol. 2015 Nov-Dec;87(2):139-49



FOR THE USER

# SAFETY

# OPTIMAL CONTRAST ENHANCEMENT

Our commitment	Our secrets for success	
 <p>Extend your image acquisition window and ensure diagnosis accuracy with a more suitable iodine dose</p> <p>Improve the accuracy of your protocol and synchronize the injection with the scanner</p>	 <p><b>OptiBolus<sup>®3</sup>:</b> provides uniform contrast enhancement, extends the image acquisition window</p>	 <p><b>Timing Bolus<sup>®</sup>:</b> test injection to confirm the protocol</p>
	 <p><b>Simultaneous injection:</b> dual injection of contrast media and saline</p>	 <p><b>CAN interfacing,</b> for accurate acquisition</p>

# COMPLIANT PROCESS

Our commitment	Our secrets for success	
 <p>Maintain safe and compliant use</p>	 <p><b>Certified syringes &amp; manyFill<sup>®</sup> day-set:</b> designed, tested and approved to meet the highest Guerbet quality standards</p>	 <p><b>Countdown timer:</b> alerts the user of compliancy with hygiene regulations</p>

3. May be subject to an additional fee. Can differ from country to country. For more information please contact your local Guerbet representative  
Navin P, Murray AM & Al. Shapedbolus protocol reduces contrast medium volume in abdominal CT while maintaining image quality Clinical Radiology 2017 Mar;72(3):265.e1265.e5



*Contrast media injectors have been used successfully for decades worldwide. Scans are becoming faster and more complex, they involve more workflows and greater workloads, generating a need for **intuitive and ergonomic devices to improve comfort and performance** for radiologists and their patients.*

# EFFICI

## OPTIMIZED WORKFLOW: ENSURE A GOOD PATIENT FLOW

### Our commitment



Improve handling conditions for a simple and fast workflow

### Our secrets for success



Only a few seconds' preparation between patients: unique secufill® patient line



Less time spent positioning and setting up

- Powerhead screen at patient side
- More time with your patients

# ENCY

OUR SMART TECHNOLOGIES  
ARE DESIGNED TO  
IMPROVE PRODUCTIVITY  
BY STREAMLINING USER  
WORKFLOW IN ORDER TO  
SAVE TIME AND FOR  
STRESS-FREE USE



# EFFICI

## IMPROVED WORKLOAD: ENSURE GREATER COMFORT

Our commitment	Our secrets for success	
 <p>Simplify processes with automatic operations and a specific design</p>	 <p><b>All-in-one pre-connected manyFill® day-set:</b> increases safety, simplicity and optimizes workload</p>	 <p><b>Automatic purge:</b> prevent massive air injection with a single press of a button</p>
	 <p><b>Automatic filling:</b> fill both sides simultaneously</p>	 <p><b>Color-coding:</b> quickly identify contrast and saline sides as well as connections</p>

## ENSURE A BETTER FLEXIBILITY

Our commitment	Our secrets for success	
 <p>To be effective for both multiple-patient and single-patient procedures</p>	 <p><b>Two different modes</b></p> <ul style="list-style-type: none"> <li>• Increase the number of interventions</li> <li>• Meet needs during day and night shifts</li> </ul>	 <p><b>Complete manyFill® day-set range</b> designed, tested and approved to meet the highest Guerbet quality standards</p>

# ENCY





Since contrast media injectors play a critical role in imaging and in your daily practice, we aim to improve traceability and automation with **new integrated digital solutions**.

We also want to keep our injectors as efficient as possible. We therefore provide a year-round **dedicated service team** to test performance using specific tools and software, ensure the system is accurate and confirm the equipment is operating per specifications and according to your requirements.

COMMITTED  
TO YOUR SOLUTIONS

THESE ARE  
OUR PRIORITIES  
THEY ARE  
OF CRUCIAL  
IMPORTANCE!

# COMPLETE INJECTION MANAGEMENT SOFTWARE SOLUTION

Our commitment	Our secrets for success	
 <p>Offer a contrast media injection management software solution tailored to your needs</p> <p>Save you administration time while ensuring full and automatic traceability of patient and contrast injection data</p>	 <p>Unique connectivity with information systems used in radiology<sup>4</sup></p> <p>Such as the HIS, RIS, PACS and EMR</p>	 <p>Collection, archiving, review, analysis and sharing of injection data</p> <ul style="list-style-type: none"> <li>• Including all information relating to injections during medical imaging examinations, which may be combined</li> <li>• Including data on contrast products, adverse events, injector activity, information on estimated glomerular filtration rate (eGFR) and other risk factors</li> <li>• Available in 14 languages</li> </ul>  <b>Contrast&amp;Care</b> <sup>5</sup>

# TOP SERVICES AND SUPPORT SYSTEMS FOR TOP-TIER CLINICIANS

Our commitment	Our secrets for success	
 <p>Increase added value thanks to a dedicated team and a full package of services</p>	 <p>Our inhouse team of <b>qualified experienced engineers</b>, ready to respond to your needs</p>	 <p>Useful services throughout the lifetime of your <b>OptiVantage®</b></p> <ul style="list-style-type: none"> <li>• Installation</li> <li>• Preventive maintenance</li> <li>• Regular updates</li> <li>• Quick onsite intervention: maintenance, service, repair</li> <li>• Replacement unit</li> <li>• Only guaranteed and original manufacturer spare parts</li> </ul>  <b>OptiProtect™</b> <sup>6</sup> <small>GUERBET SERVICE + SUPPORT</small>

4. Refer to Contrast&Care instructions for use

5,6. May be subject to an additional fee. Can differ from country to country. For more information please contact your local Guerbet representative

*Driven by its commitment to advance radiology today and tomorrow, Guerbet Diagnostic Imaging has designed a portfolio of interconnected contrast imaging solutions to enhance your decision-making at each point of the patient journey from diagnosis, to treatment, to follow-up, so you can focus on what matters most, efficiently improving patient outcomes.*

**HIGH QUALITY  
CONTRAST MEDIA**



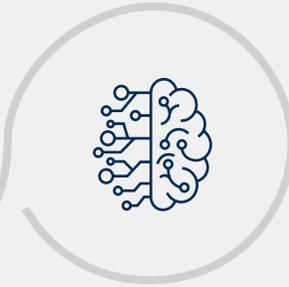
For enhanced clinical  
decision-making

**SMART INJECTION  
SOLUTIONS**



For safe and efficient  
injections

**INNOVATIVE  
DIGITAL SOLUTIONS**



For heightened patient  
safety and productivity

[www.guerbet.com](http://www.guerbet.com)

OptiVantage® injector is a medical device (Class: II b, CE0123) intended for use by medical imaging and diagnostic health professionals, for injecting radiopaque contrast media and saline into a patient's vascular system during CT examinations. OptiBolus® is a bolus shaping software that provides uniform contrast enhancement and extends image acquisition window for dynamic scanning procedures.

OptiVantage® disposables are medical devices (Class: II a, CE0123).

Notified Body: TUV SUD Product Service GmbH. Manufacturer: Liebel-Flarsheim Company LLC, 2111 East Galbraith Road, Cincinnati, OH 45237, USA.

secufill®: single use patient line with double valve for CT & MRI (Class II a medical devices, CE0459).

manyfill®: multi-use filling/injection set for CT (Class II a medical devices, CE0459).

Contrast&Care®: medical device (Class I, CE).

Notified Body: LNE G-Med. Manufacturer: Medex, 240 Allée Jacques Monod, 69800 Saint-Priest, France.

For complete information about precautions and optimal usage conditions for these medical devices, we recommend consulting the instructions notices/user's manuals.

Ensure that injection from multi dose containers and to more than one patient respects the valid rules of good practice and the marketing authorization (MA) of the contrast agent and local regulatory requirements.

The multiple use of manyfill® disposables is intended for multi patients markets. Use a new secufill® patient line for each patient.

OptiVantage®, OptiBolus®, Patency Check®, Timing Bolus®, OptiProtect™, LF™, Contrast&Care®, secufill®, manyfill® are trademarks of Guerbet.

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