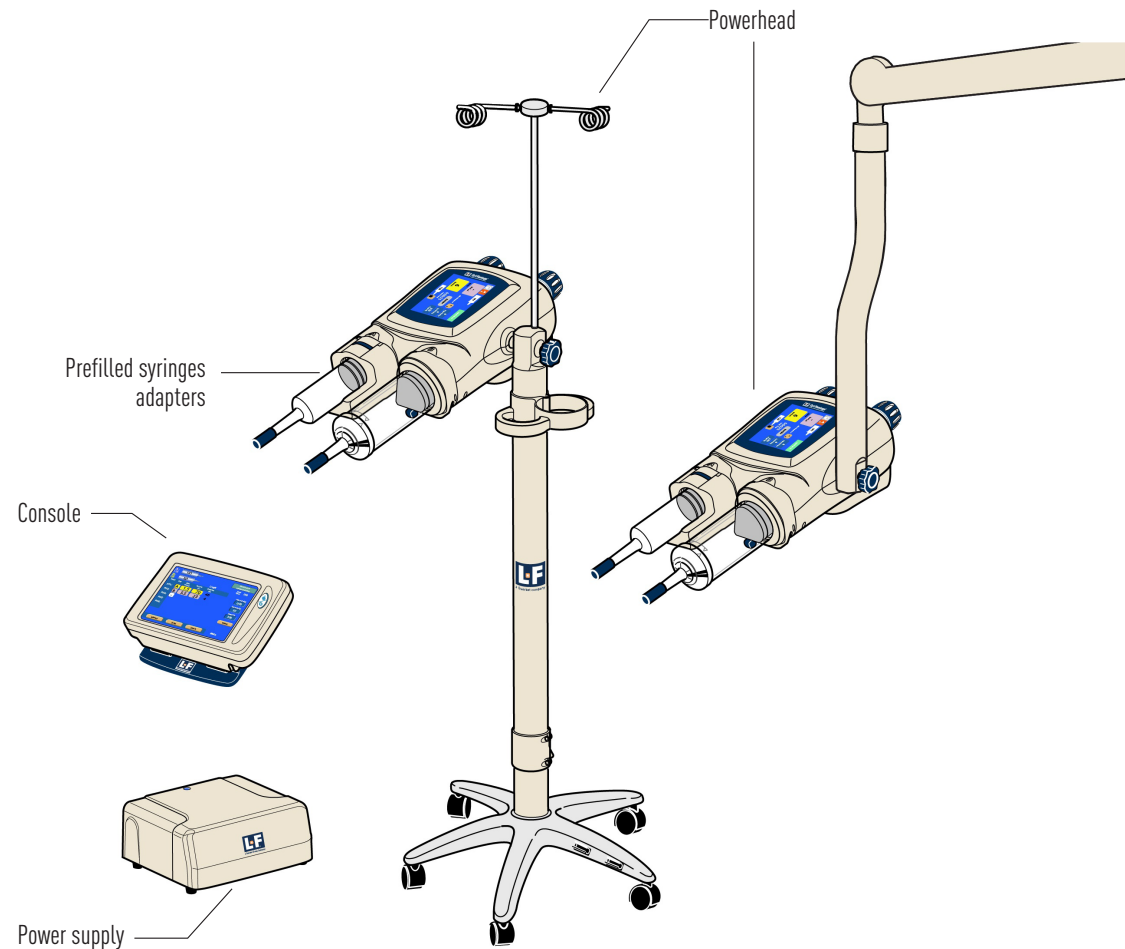


## Technical specifications



- |  |   |   |  |
|--|---|---|--|
| <b>Flow Rate</b> <ul style="list-style-type: none"><li>• 0.1-10.0 mL/sec</li></ul>   | <b>Volume</b> <ul style="list-style-type: none"><li>• 0.1 mL to volume in syringe</li></ul> | <b>Number of Phases</b> <ul style="list-style-type: none"><li>• 6</li></ul>                         | <b>Connectivity</b> <ul style="list-style-type: none"><li>• CAN class 4 and relay interfacing capabilities come standard</li></ul> |
| <b>Pressure Limit</b> <ul style="list-style-type: none"><li>• 50-325 psi</li></ul>   | <b>Scan Delay</b> <ul style="list-style-type: none"><li>• 0-600 seconds</li></ul>           | <b>Protocol Memory</b> <ul style="list-style-type: none"><li>• 40</li></ul>                         | <b>Patency Check®</b> <ul style="list-style-type: none"><li>• Same limits as for injection</li></ul>                               |
| <b>Syringe Sizes</b> <ul style="list-style-type: none"><li>• 200 mL empty syringes</li><li>• 50, 75, 100, 125 mL prefilled syringes*</li></ul> | <b>Inject Delay</b> <ul style="list-style-type: none"><li>• 0-600 seconds</li></ul>         | <b>Inject Results</b> <ul style="list-style-type: none"><li>• Last 24 injected protocols</li></ul>  | <b>Timing Bolus®</b> <ul style="list-style-type: none"><li>• Same limits as for injection</li></ul>                                |
| <b>Syringe Heater</b> <ul style="list-style-type: none"><li>• 37° C nominal</li></ul>  | <b>Phase Delay</b> <ul style="list-style-type: none"><li>• 0-600 seconds</li></ul>          | <b>Simultaneous Injection</b> <ul style="list-style-type: none"><li>• 10-90%, in 5% steps</li></ul> |  |

**LF** **OptiProtect™** SERVICE AND SUPPORT FROM GUERBET YOU CAN RELY ON

 Syringes are for single use only and marked accordingly.  
Use only LF disposables to ensure proper use of the OptiVantage® solution and to ensure warranty is still valid.

\*Volumes and presentations may differ from country to country. For complete information please refer to the local Summary of Product Characteristics.

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.

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

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










Notified Body: TÜV SÜD Product Service GmbH.

Manufacturer: Liebel-Flarsheim Company LLC, 2111 East Galbraith Road, Cincinnati, OH 45237, USA.




Contrast&Care®: medical device (Class I, CE) - Manufacturer: Medex, 240 Allée Jacques Monod, 69800 Saint-Priest, France.

OptiVantage®, OptiBolus®, Patency Check®, Timing Bolus®, OptiProtect™, LF™ & Contrast&Care® are trademarks of Guerbet. Patents pending and issued patents.

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Medical Devices	References	Picture	Description	Qty/Box
OptiVantage® injector pedestal	V8431 223571		Injector in pedestal version, with Simultaneous Injection	1
OptiVantage® ceiling-mount	V8432 223549		Injector in ceiling-mount version, with Simultaneous Injection	1
Faceplate adapters	844425 223798		Faceplate for 125 mL prefilled syringes	1
	844850 223834		Faceplate for 200 mL empty syringes	1
Heater Blanket	800114 223797		Heater Blanket for 200 mL Faceplate	1
OptiBolus®*	844210 223749		Bolus Shaping Software	1
Multipack	844021 223259		1 x 200 mL Syringe with Handi-fit & 150 cm Y-Tubing Dual Check Valve (max pressure: 400 psi)	50 each
			2 x 200 mL Syringe with Handi-fit & 150 cm Y-Tubing Dual Check Valve (max pressure: 400 psi)	20 each
Syringe	800096 223251		200 mL Syringe with Handi-fit (max pressure: 400 psi)	50 each
Coiled tubing	601195 223260		152 cm - 60" Coiled Extension Tubing (max pressure: 400 psi)	50 each
Straight tubing	CTL150N 223467		150 cm Straight Tubing (max pressure: 400 psi)	50 each
Y-Tubings	810555 210929		Extension Y-Tubing Adaptor with Dual Check Valve (max pressure: 400 psi)	50 each
	844012 223735		152 cm - 60" Y-Tubing with Dual Check Valve (max pressure: 400 psi)	50 each
Contrast&Care®	Ask your Guerbet Representative		Injection Management Solution	

## RFID references\*\*

Medical Devices	References	Picture	Description	Qty/Box
OptiVantage® injector pedestal	V8441 223555		Injector in pedestal version, RFID, with Simultaneous Injection	1
OptiVantage® ceiling-mount	V8442 223557		Injector in ceiling-mount version, RFID, with Simultaneous Injection	1
Faceplate adapter RFID	844760s 223814		Faceplate RFID for 125 mL pre-filled syringes	1

\* paid option  
\*\* Presentations may differ from country to country. For complete information please refer to the local Summary of Product Characteristics

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

To find out more, please contact your local Guerbet representative, or contact [LF@guerbet.com](mailto:LF@guerbet.com)

**Guerbet**   
Contrast for Life



## Smart solution in CT

INNOVATIVE,  
FLEXIBLE, SAFE

 **Contrast&Care**

**Guerbet** 

**COMMITTED**



## Designed to work the way you work

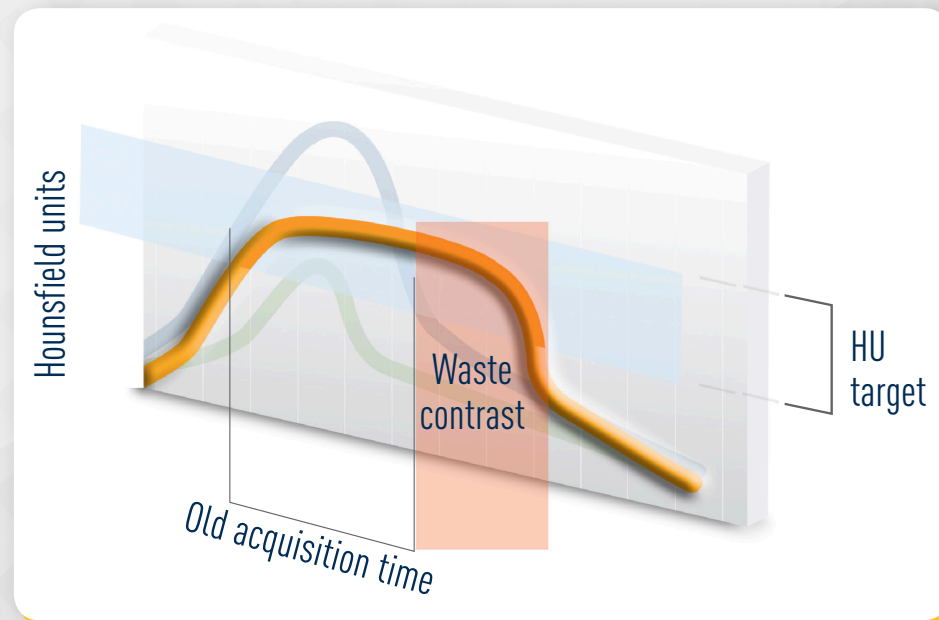
The **OptiVantage®** is a dual-head contrast delivery system loaded with multiple advanced functions to compliment the way you work in CT.

# Innovation

### Optimize your advanced injection protocols with OptiBolus®\*

Provides uniform contrast enhancement and extends image acquisition window for dynamic scanning procedures.

- Proven to reduce volumes of contrast without compromising diagnostic confidence<sup>1</sup>
- May lead to a decrease in radiation dose to the patient<sup>2</sup>



### Contrast&Care INJECTION MANAGEMENT SOLUTION

Collect, archive, review, analyse and share patient injection data, including contrast media data, adverse events, injector activity, eGFR information and other pre-examination alerts. Connectivity with your HIS/RIS/PACS

\* Paid option

1. Cattini, G, Walsh, A: Optibolus, A bolus shaping software used to reduce the amount of contrast given to patients during CT examinations without reducing diagnostic confidence. 2010  
2. Navin, P, Murray, A.M, Nandikumar, K, Waldron, R, Tuohy, B., Shaped-bolus protocol reduces contrast medium volume in abdominal CT while maintaining image quality, Clinical Radiology 2016

# Flexibility

### Scanner connectivity

CAN class 4 and relay interfacing as standard\*\*

### Powerhead screen

Control at your fingertips: patient-side programming

### Prefilled compatible

Faceplate adapter for prefilled offers

### Simultaneous Auto-fill

Enhances your set-up procedure by automatically filling both sides

### Simultaneous Injection

Delivers dual injection protocols of contrast media and saline



## High quality disposables

200 mL syringes & sets designed, tested and approved to meet the highest quality standards

# Safety

### Auto purge

Remove air with a single press of a button

### Tilt Enable

Additional safety feature to help reduce the risk of injecting air

### Patency Check®

Test the patient's vein prior to injection

### Timing Bolus®

Test injection to confirm protocol

### RFID technology\*\*\*

Reduce the risks coming from using expired or used syringes

\*\*\* Presentations may differ from country to country. For complete information please refer to the local Summary of Product Characteristics

Innovative, Flexible, Safe... the **OptiVantage®** will allow you perform your CT exams in a tailored way, using the most advanced features like **OptiBolus®**