



allowing you to  
**DO LESS.**

enabling you to  
**CARE MORE.**



**medRAD**® Centargo  
CT Injection System



**High-throughput  
suites can reduce  
annual contrast  
media waste  
by 86.1% when  
using multi-  
patient injectors.\*<sup>1</sup>**

\*Compared to single-patient injectors.



**Streamline workflow, and  
redirect time to patient care.**

**Experience the MEDRAD® Centargo CT Injection System:**

The MEDRAD® Centargo injector is a multi-patient connected CT solution for high-throughput suites, optimizing workflow to redirect time to patient care.

# With Efficiency.

Automated features, intuitive daily set-up and quick change time between patient scans streamline workflow.

### Cordless Mobility

Pedestal configuration is battery powered and Wi-Fi enabled.



### Under 20 Seconds

Simple, snap-in patient line auto primes and is ready for the next patient in under 20 seconds.



### Under 2 Minutes

Multi-patient set-up process can be completed in under 2 minutes with the preassembled Day Set.



# With Confidence.

Flexible contrast options, unique safety and efficient workflow features help you confidently manage your daily tasks.

### Contrast Compatibility & Data Capture

Compatible to use with all CT contrast presentations.\* Integrated barcode reader automatically captures and populates important contrast details.



### Visual Indicators

Lighted, visual indicators inform workflow steps to reduce uncertainty.



### Air Detection and Removal

A multi-layer air detection and removal process is designed to reduce disruptions and repeat scans associated with microbubbles.<sup>2</sup>



\*When loading both contrast agent reservoirs, the contrast agents must have the same active pharmaceutical ingredient (API).

# With Care.

Thoughtfully designed to make a greater impact on patients and a smaller impact on the planet.



## Complete Range of Injection Controls

Remain at the patient's side with the touch screen in the scan room.



## DualFlow Technology

Inject contrast and saline simultaneously in user-selected ratios, allowing for more uniform attenuation in cardiac studies.<sup>3</sup>



## Fluid Optimization

Multi-dose workflows and Skip to Next Phase technology may reduce per-procedure costs and fluid waste, only using the contrast amount that each patient needs.



## Packaging Design

Centargo's Day Set package is an innovative, award-winning sustainable design, achieving an 80% reduction in plastic waste.<sup>4,5</sup>



## Remote Support and Maintenance

Our remote support platform offers remote diagnostics and technical support, resulting in higher remote resolution rates for connected systems, minimizing the need for travel time onsite.<sup>6</sup>



# Workflow Solutions.

Leveraging SMART Protocols, the MEDRAD® Centargo injector is a comprehensive solution for workflow efficiency, unlocking the full potential of the connected suite with integrated software, services, education and data.

## PRODUCTIVITY



## PERFORMANCE



## PATIENT CARE



### Preparing the Patient

- + Integrated **barcode reader** captures and populates contrast details\*
- + **Modality Worklist** provides patient and study information
- + **Personalized protocols and weight-based dosing** optimize contrast delivery to the patient

### Performing the Scan

- + **Scanner interface** facilitates protocol exchange and scan time synchronization with the injector
- + Workflow solutions **software enables automated documentation** of patient, contrast and injection information

### Reading the Scan

- + Through **integrated interfaces**, information is automatically sent to multiple destinations, including **PACS, RIS and Speech Recognition**, for review and interpretation

### Enhancing the Experience

- + Workflow standardization and automation add up to a better experience for your department and allow for **more time to focus on patient care**

\* Available with Ultravist® only.

# Centargo Configuration



## Pedestal System with Battery

Enjoy the flexibility to move within the scan room, move across CT suites or even outside the suite for staff training and preventative maintenance.



### Battery Operated and Wi-Fi Enabled

- + Single charge lasts 16 hours or up to 60 patient exams
- + Can be used while plugged in and charging
- + Recharges in just 5 hours

### Injector Pairing Feature

- + Can be paired to a new control room unit if a backup system is needed

## SYSTEM SPECIFICATIONS

<b>Volume Range</b>	200 mL for contrast and flush phases; 1 mL to 400 mL for DualFlow phases (in 1 mL increments)
<b>Flow Rate Range</b>	0.1 to 10 mL/sec in 0.1 mL/sec increments
<b>DualFlow</b>	Simultaneous injection of contrast and saline in increments of 1 mL
<b>Patency Check / Test Inject</b>	Real time flow rate adjustment and multi-phase test injections
<b>Programmable Pressure Limit</b>	From 50 psi to 300 psi in 1 psi increments (also displayable in kPa and kg/cm <sup>2</sup> )
<b>Programmable Delay</b>	1 second to 900 seconds in 1 second increments
<b>Pause</b>	Maximum pause time of 20 minutes
<b>Fluid Loading</b>	<b>Contrast media:</b> 50 mL to 1000 mL. Imaging bulk package or single-dose vial. <b>Saline:</b> 50 mL to 1000 mL.
<b>Fluid Reservoirs (volume)</b>	Three 200 mL reservoirs (two contrast and one saline)
<b>Injection Capabilities</b>	Maximum of 6 phases per injection. Maximum of 10 injections per exam
<b>Fluid Delivery Method</b>	Piston-based
<b>Air Detection</b>	Three inlet air sensors and one outlet air sensor includes reservoir air detection and automatic air removal
<b>Integrated Prime Container (volume)</b>	680 mL

## PHYSICAL SYSTEM SPECIFICATIONS

<b>Displays</b>	Two independent, Wi-Fi enabled, full color, touch screen units with modern graphical user interfaces located in the scan room and control room
<b>Injector Dimensions (WxDxH)</b>	76.2 x 68.6 x 167.6 cm
<b>Pedestal Injector Weight (approx.)</b>	76 kg
<b>Battery Performance</b>	Up to 16 hours or up to 60 injections (Pedestal configuration)

## DISPOSABLES

<b>Day Set</b>	Pre-assembled, labeled for 24-hour use of contrast media, designed for set-up in less than 2 minutes
<b>Patient Line</b>	250cm and 350cm, single hand design, two check valves, auto-primers upon insertion
<b>Replacement Spikes</b>	Label for use with 1 bottle/bag of fluid. Replace the spike with every bottle change 350cm, single hand design, two check valves, auto-primers upon insertion

## ORDERING INFORMATION

### Injector Configurations

+ Centargo Pedestal System with Batteries **CENT-SYS-BAT**

### Disposables

+ Centargo Day Set **CENT-DS**

+ Centargo Patient Line **CENT-PL**

+ Centargo Replacement Spikes **CENT-RS**

+ Centargo Patient Line (350 cm) **CENT-PL-350**

+ Centargo Patient Line (250 cm) **CENT-PL**

### Scanner Connectivity

+ ISI 900/ISI 700 **ISI2**

+ ISI2 **ISI2**

+ Connect.CT **CENT-ISI-CCT**

### Connectivity

+ SMART Protocols **CENT-P3T-PAT**

+ P3T Personalized Protocols **PENT-P3T**

+ PAT Protocol Assistant **CENT-PAT**

**medrad**<sup>®</sup> Centargo  
CT Injection System

LEARN MORE AT [RADIOLOGY.BAYER.CA](http://RADIOLOGY.BAYER.CA)



**References:** **1.** Rafiei Alavi N, Limfueco J, Yamamoto R, Shi J, Houshyar W, Yaghmai V. Impact of patient volume on iodinated contrast material waste with multidose contrast injectors. *Acad Radiol.* 2024;S1076-6332(24)00960-7. doi: 10.1016/j.acra.2024.12.013. **2.** CARE Study: McDermott et al. Proactive Air Management in CT Power Injections: A Comprehensive Approach to Reducing Air Embolization. *IEEE Trans Biomed Eng.* 68(3), 1093–1103. **3.** Kerl JM, Ravenel JG, Nguyen SA, et al. *Right heart: split-bolus injection of diluted contrast medium for visualization at coronary CT angiography.* *Radiology.* 2008;247:356-364. **4.** Bayer Verification Testing, data on file. **5.** Wickboldt T. Assessment Report of Existing vs. New Centargo Day Set Packaging. Amcor: January 4, 2024 **6.** Based on results with all Bayer injectors installed in the US as of October 2024. Bayer Case Study. Remote Diagnosis on Service Levels, October 2024.

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