



**medRAD**® Centargo  
CT Injection System

allowing you to  
**DO LESS.**

enabling you to  
**CARE MORE.**



POWERED BY CORTENIC™ CONNECTIVITY



**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, powered by Cortenic™ Connectivity, 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 Versatility & Data Capture

Flexibility to use Ultravist® (iopromide), Isovue® (iopamidol), Optiray® (ioversol), or Omnipaque™ (iohexol) contrast in imaging bulk package and single-dose vial presentations, and Visipaque™ (iodixanol) in single-dose vials.\* Integrated barcode reader automatically captures and populates important contrast details.



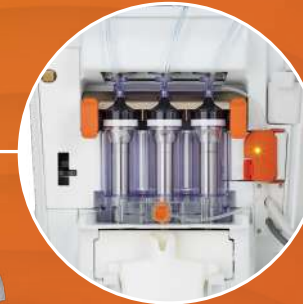
## Visual Indicators

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>

\*Reductions stated are in comparison to a prior version of packaging design released in 2020 for global product launches. This prior packaging design was not made available in the U.S.



# With Connectivity.

Powered by Cortenic™ Connectivity, 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

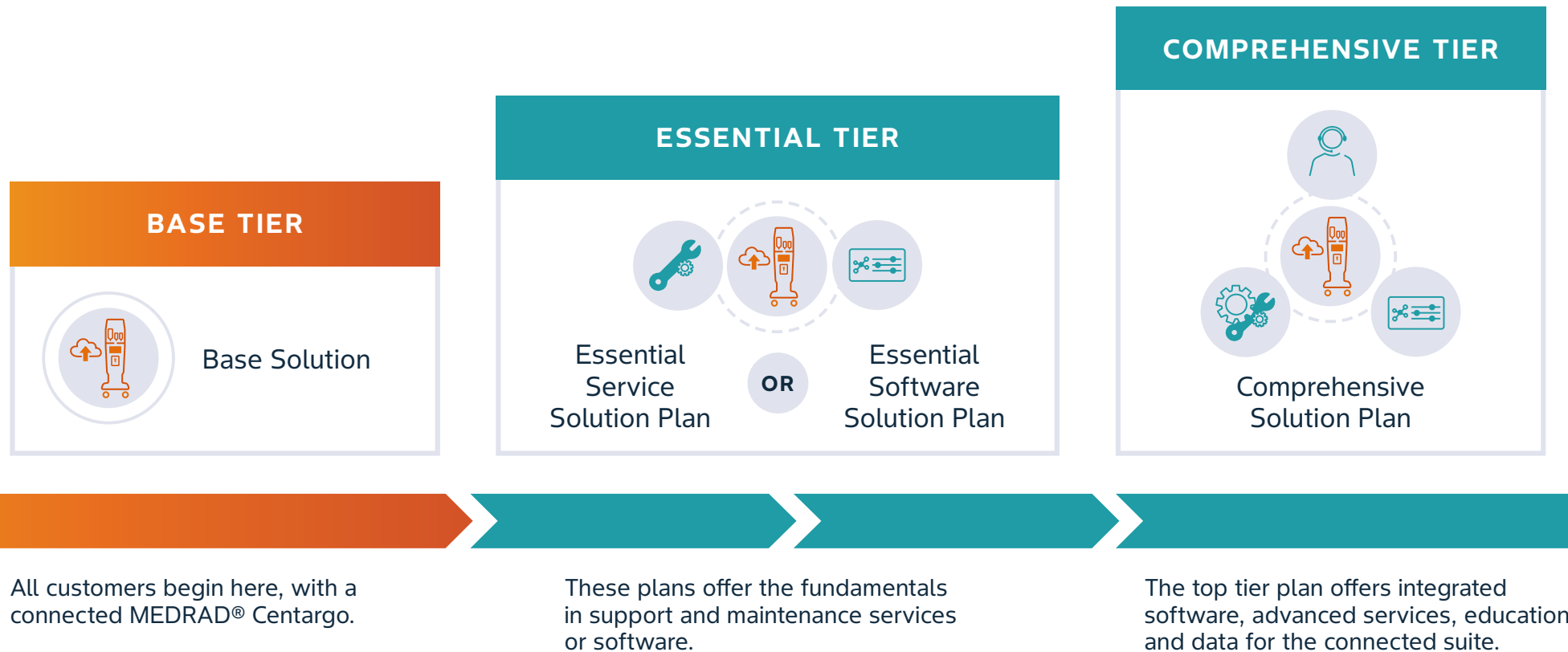
- + Workflow standardization and automation add up to a better experience for your department and allow for **more time to focus on patient care**

# With Solution Plans.

Unlock the Advantages of Connected Software and Services with Scalable Solutions Plans

Our solution plans, powered by Cortenic™ Connectivity, combine the latest injector technology, software and services to activate holistic, scalable solutions and new levels of efficiency. From streamlining your essential daily operations to driving comprehensive clinical and operational initiatives, our three plans are designed to deliver results in your department.

**Choose a solution plan to optimize the capabilities and performance of your MEDRAD® Centargo.**



**Learn more about Centargo and our scalable solution plans**

# Two Convenient Centargo Configurations

## 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



## Overhead Counterpoise System (OCS)

This ceiling mounted solution is free of cables and provides easy horizontal maneuvering.



### Hardwired Configuration

- + Hardwired via an integrated cable through the OCS
- + 200mm, 400mm and 600mm ceiling column lengths available
- + Battery and Wi-Fi connection not available with the OCS
- + System cannot be adjusted vertically after installation
- + Structural modifications of CT room may be required





## 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 500 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>OCS Dimensions (WxDxH)</b>	39.2 x 49 x 122.6 cm
<b>OCS Weight (approx.)</b>	112.16 kg (Weight includes: MAVIG Centargo OCS Mounting Plate, ceiling columns, and injector column, upper and lower arms, injector interface bracket, internal cable and injector system)
<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 or 25 bottles of contrast media, designed for set-up in less than 2 minutes
<b>Patient Line</b>	250 cm, 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
<b>Saline Tag</b>	Attached to saline source used to deliver multiple single doses to multiple patients. Once the port of saline container is punctured, the Saline Tag should not be removed during the entire period of use



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**References:** **1.** Rafiei Alavi N, Limfueco J, Yamamoto R, Shi J, Houshyar W, Yaghamai 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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**MEDRAD® Centargo**  
CT Injection System



## ORDERING INFORMATION

### Injector Configurations

- + Centargo Pedestal System with Batteries **CENT-SYS-BAT**
- + Centargo Overhead Counterpoise System (OCS) **CENT-SYS-OCS**

### Disposables

- + Centargo Day Set **CENT-DS**
- + Centargo Patient Line **CENT-PL**
- + Centargo Replacement Spikes **CENT-RS**
- + Centargo Saline Tag **CENT-SALINE-TAG**

### Scanner Interfaces

- + ISI 900 **ISI2**
- + ISI 700 **ISI2**
- + Connect.CT **CENT-ISI-CCT**

### Connectivity Powered by Cortenic™ - Available with Centargo Solution Plans

- + Remote Connectivity
- + Modality Worklist Integration and PACS Interface
- + Speech Recognition Interface
- + RIS Interface
- + P3T® Bundle

### Processing Productivity

- + Radimetrics Interface **CENT-REP**

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