



DO LESS.

CARE MORE.



Clear Direction. ➤ From Diagnosis to Care.

**medrad**® Centargo  
CT Injection System

# DO LESS.

**Centargo** minimises your injector touch time by automating manual processes.

# CARE MORE.

**Centargo** helps you focus on what matters most in every CT scan – the patient.



# With Efficiency.

**Centargo is designed for a simple, reliable and automated workflow, easy daily set-up and quick change time between scans.**

Under 20 Seconds: The simple snap-in patient line, auto-priming and is ready for the next patient in under 20 seconds - up to 63% faster.\*<sup>1</sup>



Under 2 Minutes: Centargo's daily set-up process can be completed in under 2 minutes.



Higher IDRs: Centargo's piston-based design achieves higher programed iodine delivery rates (IDRs) and the highest peak enhancement in the pulmonary artery and aorta when compared to peristaltic injectors.\*\*<sup>2</sup>



# With Confidence.

**Less manual data entry and the intuitive user interface helps you confidently complete your daily tasks.**

Convenient Controls: Touch screen in the scan room so that you can be close to your patient.



Automated Documentation: The barcode reader reduces manual data entry and provides easy traceability and access to contrast and injection details.\*\*\*



Proactive air management system of MEDRAD® Centargo injects significantly less air when compared to other systems. This can lead to reduced disruptions and repeat scans caused by microbubbles.<sup>3</sup>



\*Projected time savings compared to MEDRAD® Stellant when using 500 mL contrast bottles in a 24 hour time period

\*\*As shown in a circulation phantom

\*\*\*When combined with //Automated Documentation software



# With Centargo.

## For easy set-up and patient-to-patient change over:

- › Pre-assembled 24-hour Day Set
- › Fast changeover using snap-in Patient Line

## Designed with safety in mind:

- › Inlet and outlet air detection in addition to automatic air removal within reservoirs
- › Recessed connection on the Day Set
- › Two check valves in the Patient Line

## Together with excellent performance:

- › Piston-based fluid delivery
- › Heat maintainers for contrast reservoirs

## And modern convenience:

- › Integrated prime container
- › Dual screen configuration within scan and control room
- › Training videos on Control Room Unit
- › VirtualCare™ for remote monitoring, updates and diagnostics

# With Workflow Solutions.

- › Integrated barcode reader for contrast data capture
- › Automated documentation for access to contrast and injection information in PACS
- › Protocol software tools to calculate individualised injection protocols
- › Advanced Scanner Connectivity for protocol exchange and device synchronisation\*

\* Requires additional ISI software



# With Workflow Solutions\*\*\*

Clearing your way to make your day-to-day routine more manageable and efficient.

- **//Automated Documentation:** Because Digital is the New Manual  
Reduces the number of manual tasks and potential errors by effortlessly capturing contrast and injection parameters.
- **//Smart Protocols:** Because Every Body is Different  
Streamlines the injection protocol personalisation process.
- **//Injector Management:** Because Best Practice is Best Shared  
Allows for central administration of protocols across a group of devices for practice-wide consistency and convenience.
- **//Insights:** Because Knowing is Growing  
Allows analysis of multiple metrics to drive efficiency and help your team grow.

\*\*\*Please check local availability with your Bayer representative

## 99%

of respondents reported overall satisfaction with Centargo.†

87% of these respondents reported they were “very” or “extremely” satisfied.

† Centargo Post Launch Customer Perception Market Research Report (2022)



“Impresses with its ease of use, significant savings in contrast media, time savings.

**More patients** can be examined in a day. **Excellent for oncology** imaging.”†

German Radiographer

“This system has been quite a game changer in terms of what it has delivered on points around **efficiency, waste reduction... and safety.**”†

Australian Radiographer

“I have more one-on-one time to make **patients feel more comfortable.**”†

Australian Radiographer

“It's [Centargo] one of the **easiest** things I've learned to use in radiology.”†

UK Radiographer



## With Quality.

**Centargo offers the Bayer MEDRAD® quality that you have come to trust.**

- › Piston-based fluid delivery and personalised contrast media protocol software.\*
- › Three inlet air sensors and one outlet air sensor as well as reservoir air detection and automatic air removal.
- › Cordless mobility through a battery powered, Wi-Fi enabled configuration.

\*P3T® and Protocol Assistant Software

**Think ahead. Plan ahead. Stay ahead.  
Bayer is your partner for peace  
of mind and patient care.**

## With Bayer.

Bayer relies on our decades of experience, comprehensive service networks, expert clinical support and dedicated sales teams to make sure that you receive the solutions you need to improve your efficiency, confidence and quality.



# System Specifications

Description	Specification
<b>Volume Range</b>	1 mL to 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 5%
<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>	Contrast: 50 mL – 500 mL    Saline: 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>Day Set</b>	Pre-assembled, labeled for 24-hour use, 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>Displays</b>	Two independent, Wi-Fi enabled, full colour, touch screen units with modern graphical user interfaces located in the scan room and control room
<b>Air Detection</b>	Three inlet air sensors and one outlet air sensor includes reservoir air detection and automatic air removal
<b>Battery Performance</b>	Up to 16 hours or up to 60 injections
<b>Integrated Prime Container (vol)</b>	680 mL
<b>Injector Dimensions (WxDxH)</b>	76.2 x 68.6 x 167.6 cm
<b>Injector Weight (approx.)</b>	76 kg (Pedestal configuration)
<b>Available Scanner Interface</b>	ISI2 and Connect.CT
<b>Smart Protocols</b>	P3T® algorithms calculate individualised injection protocols for cardiac CT, CT pulmonary angiography and CT imaging of abdominal organs Protocol Assistant provides basic protocol calculations for a range of procedure types
<b>eGFR Calculator</b>	Available on Control Room and Scan Room Units



More information on  
radiology.bayer.com.au



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## References

1. PerCent Study: Kemper CA et al. Performance of Centargo: A Novel Piston-Based Injection System for High Throughput in CE CT. Med Devices (Auckl). 2022;15:79-87.
2. InnoVaTE Study: McDermott M et al. Impact of CT Injector Technology and Contrast Media Viscosity on Vascular Enhancement: Evaluation in a Circulation Phantom. Br J Radiol. 2020;93(1109):20190868.
3. CARE Study: McDermott et al. Proactive Air Management in CT Power Injections: A Comprehensive Approach to Reducing Air Embolisation. IEEE Trans Biomed Eng.
4. Bayer. MEDRAD® Centargo Operation Manual. 2019.

# Ordering Information

## Injector Configurations

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

## Disposables

- Centargo Day Set (24-hour use) **CENT-DS**
- Centargo Patient Line **CENT-PL**
- Centargo Replacement Spikes (optional) **CENT-RS**

## Smart Protocols

- P3T Personalised Protocols **CENT-P3T**
- PAT Protocol Assistant **CENT-PAT**

## Workflow Solutions

- Automated Documentation **CENT-AUTO-DOC**
- Smart Protocols **CENT-SMART**
- Insights **CENT-INSIGHTS**

## Processing Productivity

- RIS Interface **CENT-RIS**
- Dictation Interface **CENT-SR**
- Radimetrics Interface **CENT-REP**

## Scanner Connectivity

- ISI2 **CENT-ISI2**
- Connect.CT **CENT-ISI-CCT**

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