



Optivantage™
Dual-Head CT Contrast Delivery System

Frost & Sullivan Award Winner for RFID Enabled Contrast Delivery System + RFID Enabled Ultraject™ Prefilled Syringe

Optivantage™ dual-head CT contrast delivery system is the first with RFID enabled intelligence to help safeguard against certain life threatening medical errors.

The Optivantage™ dual-head CT contrast delivery system brings the innovation of RFID (Radio Frequency Identification) technology to patient point of care in the CT suite. RFID technology is an automatic identification technology that captures, stores, and transmits data using devices called RFID tags or transponders. The RFID enabled Optivantage™ contrast delivery system combined with the use of RFID enabled Ultraject™ prefilled syringes prevents accidental air embolism caused from using an empty, used syringe. The unique, user-friendly powerhead provides a color LCD screen that is fully programmable at the patient's side, allowing technologists to perform a saline flush, change protocols, fill syringes and much more with just the touch of a button. The injection system accommodates both 125 mL Ultraject™ prefilled syringes and 200 mL disposable syringes, with easy front loading and removal. The Optivantage™ dual-head CT contrast delivery system provides an upgradeable platform to which new technology may be added as it becomes available.

This contrast delivery system with RFID technology is the recipient of the 2008 Frost & Sullivan North American Product Innovation Award in the field of RFID based biological delivery systems. The news release from Frost and Sullivan is available for more details on the award by clicking the document on the right.

Order Information

Description	Qty	Unit	Size	Order #	11 Digit NDC
Dual-head CT contrast delivery system with fixed ceiling mount and CAN Class 0 interface	1	each		V8412	
Dual-head CT contrast delivery system with fixed ceiling mount, CAN Class 0 interface and RFID technology	1	each		V8422	
Dual-head CT contrast delivery system with rolling stand and CAN Class 0 interface	1	each		V8411	
Dual-head CT contrast delivery system with rolling stand, CAN Class 0 interface and RFID technology	1	each		V8421	

Features and Benefits

Feature	Benefit
Radio-Frequency Identification (RFID) technology	The combined use of RFID enabled Ultraject™ prefilled syringes with the RFID enabled Optivantage™ dual-head CT contrast delivery system prevents an accidental air embolism caused from using an empty, used syringe, and prevents accidental patient cross-contamination from using a partially used syringe in another patient exam..
Fully-programmable	Enables the technologist to stay with the patient for optimal care during the exam set-up or to make

powerhead with color LCD touchscreen display	changes to the protocol. Both the Optivantage™ powerhead and remote console have touchscreen technology designed for intuitive, user-friendly operation.
Tilt enable	Helps reduce the risk of air embolism, and has a 180° display orientation for easy reading
Patency Check™ technology	Provides easy method to check for a proper stick and vascular patency at the patient bedside, and allows technologist to manually check for possible extravasation episode
Ultraject™ prefilled syringes	Help reduce the potential for medication errors ¹ , help meet stringent regulatory requirements ¹ , may reduce the risk of infection ¹ , and improve efficiency ² .
Optibolus™ bolus-shaping software	Optional bolus shapnig software automatically optimizes your multi-phasic protocol for dynamic scanning procedures, and consistently provides uniform injections and aids in improved image quality.
Controller Area network (CAN) interface connectivity	CAN Class Zero allows the CT scanner system to monitor and confirm the Optivantage™ CT contrast delivery system is connected, determine ready-to-inject status, and initiate the injection.
Timing Bolus™ technology	You may easily perform a test injection to confirm protocol is properly set, and this feature also aids in obtaining better image quality resulting from consistent contrast medium delivery.
Auto-fill	Automatically fills an empty disposable syringe while minimizing the introduction of air
Color-coded user interface	Consistent color coding of side A and B allows the operator to have a visual distinction between contrast media and saline. The manual knobs also illuminate with the same color coding.
Multi-phase protocol storage	Save up to 40 six-phase protocols with password protection
Quick connect faceplate with integrated heater	The Optivantage™ dual-head contrast delivery system is equipped with a quick connect faceplate that allows fast and easy loading and unloading of all fill volumes of Ultraject™ prefilled syringes. The integrated faceplate heater blanket maintains physiologic temperature and reduces the viscosity of the contrast medium.

1. 2006 Comprehensive Accreditation Manual for Hospitals: The Official handbook. Oakbrook Terrace, IL; Joint Commission on Accreditation of Healthcare Organizations; 2006.
2. Femano, P. The Use of Prefilled Syringes in CT Contrast Administration: A Research Report. American Society of Radiologic Technologists 2001.

Frequently Asked Questions

Question	Answer
Can the Optivantage™ dual-head CT contrast delivery system perform single-head and dual-head injection protocols?	Yes. No special configuration is necessary when switching between single and dual injection protocols. Simply program the desired injection protocol, load and purge the syringe, then start the injection.
What CT procedures can be performed with the Optivantage™ dual-head CT contrast delivery system?	It is fully capable and easy to use for any of your CT injection protocols.
How many protocols can be stored in memory?	Forty (40) six-phase injection protocols can be stored and managed via the protocol management functions. Additionally, the protocols can be protected via a password.
Will the Optivantage™ dual-head CT contrast delivery system interface with my CT scanner?	Yes, CAN Class Zero interface connectivity allows the CT scanner system to monitor and confirm the contrast delivery system is connected, determine ready-to-inject status, and initiate the injection.
