



Optistar™ Elite™
MR Contrast Delivery System

An Evolution in Design Delivering Improved Clinical Efficiency and Confidence

The Optistar™ Elite™ contrast delivery system is the third generation injector in our Optistar™ product line designed specifically to inject MR contrast media and flushing solutions into a patient’s vascular system during Magnetic Resonance Imaging (MRI). We have continued the tradition, further enhancing the product’s software to provide improved clinical and workflow efficiency.

The Optistar™ Elite™ powerhead and rolling stand are MR safe, allowing set-up and control of the injection at the patient’s side for a significant advantage in patient care. The Optistar™ Elite™ system can be used with magnet strengths up to 3.0T.

The console, remote start switch, and power supply are not designed for placement in the MR environment, and must be kept outside the magnet room.

Order Information

Description	Qty	Unit	Size	Order #	11 Digit NDC
System, MR contrast delivery with mobile mount	1	each		M5300	
System, MR contrast delivery with rolling stand	1	each		M5200	

Features and Benefits

Feature	Benefit
Accommodates Ultraject™ prefilled contrast media syringes	The Optistar™ Elite™ MR contrast delivery system accommodates Ultraject™ prefilled syringes, which can help reduce the risks that may be caused by manually filling syringes. The powerhead button design and user interface is color coordinated with the Ultraject™ prefilled syringes to help avoid medication confusion and help ensure proper set-up. Using Ultraject™ prefilled syringes may help minimize the risk of contamination and help reduce the risk of infection. In addition, using Ultraject™ prefilled syringes helps meet certain regulatory requirements of the Joint Commission (formerly JCAHO), including less need for hand labeling compared with that for manually-filled syringes, fewer steps required for compliance, and helping to meet the requirement to use the most ready-to-administer product. ¹
Timing Bolus™ technology	This feature allows the technologist to inject a specified amount of contrast media during a test scan to determine the optimum transit time of the imaging agent to the region of interest, thus helping to maximize the diagnostic information..
Multiple phase programming	As many as six phases (4 phases plus a Timing Bolus™ injection) can be programmed for each exam protocol
Auto retract	The auto retract sequence allows the technologist to quickly remove both syringes from the powerhead without waiting for both rams to fully retract.
Battery free operation	The Optistar™ product line was the first AC powered injector for MR procedures, eliminating time and cost associated with battery charging and replacement.
Validated for 3 Tesla	Covidien works closely with the Original Equipment Manufacturer (OEM) scanner companies to ensure

compatibility. For details on OEM validation, please contact your local Covidien sales representative.

Syringe loading	The Optistar™ Elite™ syringes are drop-in style for workflow efficiency. When using glass bottles, technologists can fill syringes outside the MR suite to avoid spilling contrast media near the scanner.
Non-ferrous design	The powerhead is made of completely non-ferrous materials; this permits the powerhead to be pushed up to or into the bore of the magnet without causing RF interference. Promotes flexibility and image quality.
Patency Check™ technology	The Patency Check™ feature allows the technologist to inject saline at the maximum protocol flow rate to confirm a patent fluid pathway to the patient prior to the contrast injection. A visual alert on the powerhead and on the control console provides a warning message when the programmed pressure limit engages due to a blockage during patency check.
Multiple start options	The Optistar™ Elite™ contrast delivery system may be enabled from either the control console or the powerhead. Once enabled, there are three start options: the operator's console, a remote handswitch, or from the powerhead. This provides user preference flexibility and may help minimize injection delays. Note that the console, remote start switch, and power supply are not designed for placement in the MR environment, and must be kept outside the magnet room.
Color touch screen	Simple and reliable, featuring an operator intuitive user interface. Multi-colored touch screen improves visualization of the screen from multiple viewing positions, designed for ease of operation for the technologists and physicians monitoring and programming the injector. Simple, intuitive, graphic screen designs may reduce training time for staff.
Hard wire connection between all components	All components including the console, power control boxes, and powerhead are connected via wire cables designed to add reliability and eliminate batteries and battery maintenance.
Independent dual syringe powerhead	Optistar™ Elite™ contrast delivery system has a dual syringe powerhead, providing flexibility for either single or dual syringe injections used in most advanced MRI protocols.
Drip mode	Allows you to adjust drip parameters (flow, volume, interval) to maximize saline flush usage and always reserves the amount of saline needed to flush the contrast media injection. Reduces the need to refill saline, which may result in increased patient through-put and technologist productivity while providing the clinicians with the ability to program an appropriate catheter drip / flush to meet the needs of each individual patient.

¹2006 Comprehensive Accreditation Manual for Hospitals: The Official Handbook. MM.4.40 "Medications are dispensed in the most ready-to-administer forms available from the manufacturer.

Frequently Asked Questions

Question	Answer
What size syringes can be used on the Optistar™ Elite™ contrast delivery system?	Ultraject™ prefilled syringes with MR contrast media in fill sizes of 10, 15, 20, & 30 mL, and also 60 mL Optistar™ Elite™ empty syringes when manually filled
Do the Ultraject™ prefilled syringes require an adapter to work with the Optistar™ Elite™ contrast delivery system?	Yes, the Ultraject™ prefilled syringes in fill size 10, 15, & 20 mL require an adapter, part number 802730.
Is it 3 Tesla validated?	Yes, Covidien works closely with scanner manufacturers to ensure compatibility and obtain product validation. For specific OEM validations, please contact your local Covidien sales representative.
Does the Optistar™ Elite™ contrast delivery system have a feature to Keep the Vein Open (KVO)?	Yes, it features the programmable drip mode allowing you to switch from injection to drip mode at any time, helping to ensure the IV line patency throughout the procedure.
Are batteries and / or battery charger required?	No, the Optistar™ Elite™ contrast delivery system offers battery free operation.

Instructions for use may be found in the Optistar™ Elite™ Operator's Manual.
