



The **Iradimed Mridium 3860+** is an infusion system designed for the MRI environment. The Mridium 3860+ has additional optional features such as a wireless remote control, vented syringe adapter sets, modular additional second channel “side car”, and a bypass infusion set. This MRI Infusion pump supports a wide range of rates supporting pediatric needs as well as 1400 ml per hour faster delivery for emergency medication.

## Features

- Intuitive Smart IV Pump Technology and Real Time SpO<sub>2</sub> Monitoring.
- Delivery Range of 0.1 to 1400 ml per hour.
- Easily expandable to a second channel with add-on SideCar module.
- Operates on a Lithium Polymer battery.
- Allows placement up to the 10,000 Gauss Line.
- Large highly visible LCD display.



## Specifications

### Dimensions

**Height:** 9 in (22.9 cm)  
**Width:** 8 in (20.3 cm)  
**Depth:** 6 in (15.25 cm)  
**Weight:** 11.5 lbs. (5.2 kg)  
**Pole Clamp Mounting Range (Pole Diameter):** 1.0 to 1.5 inch (25 to 38 mm)

### Battery

**Battery Type:** Rechargeable Lithium Ion Pack, 14.8 v at 5.8 Ah  
**Battery Capacity:** > 12 Hours at  $\leq 125$  mL/hr Rate  
**Battery Charge Time:** < 9 hours to 95% capacity  
**Battery Cycle Life:** > 300 charge/discharge cycles

### MRI Performance

**MRI Magnet Compatibility:** 0.2 to 3.0 Tesla MRI Systems  
**Magnetic Field Limit:** 10,000 Gauss line (1T magnetic field line) – Minimal ferrous material used inside Pump (< 15 grams); non-magnetic motor used inside Pump  
**Compliance with Standards:** IEC 60601-1-1, IEC 60601-1-2, IEC 60601-2-24, ISO 9919, AAMI ID 26, UL2601

### Infusion Pump Performance

**Flow Rate Range:** 0.1 to 1400 mL/hr 0.1 to 99.9 mL/hr in 0.1 mL/hr increments, 100 to 1400 mL/hr in 1 mL increments  
**Flow Rate Display Range:** 0.1 to 99.9, 100 to 1400 mL/hr  
**Flow Rate Accuracy:** +/-10% (0.1 to 0.9 mL/Hr), +/-5% (1 to 1400 mL/Hr)  
**Volume To Be Infused (VTBI) Range:** 0.1 to 999 mL  
**Total Volume Infused (VI) Range:** 0.1 to 9,999 mL in 0.1 mL increments  
**Keep Vein Open (KVO) Rate Range:** Adjustable, 1 to 5 mL/hr, or Set Rate, whichever is less  
**Downstream (proximal) Occlusion:** 1 to 10 psi, user-adjustable, +/- 10% Detection Range  
**Occlusion Detection (no flow) Time:** Typically < 30 sec, dependent on selected Flow Rate  
**Inlet Pressure Detector:** Detects inlet side occlusions  
**Air-in-Line Detection Method:** Ultrasonic bubble detector, > 100  $\mu$ L

### Pulse Oximeter Performance

**Sensor Type:** Fiberoptic MRI SpO<sub>2</sub> sensor with no RF conductive components  
**Sensor Length:** 90 inches (2.3 m)  
**Accuracy:** 70 – 99 % SpO<sub>2</sub> +/- 3 digits Adult/Pediatric/Infant,; Heart Rate +/- 3 BPM (no motion)  
**Display Ranges Pulse Oximeter:** 70 - 99 % SpO<sub>2</sub>, Heart Rate: 40-240 BPM

