MRidium® 3860+ MRI Infusion Pump Reference Guide

IRADIMED
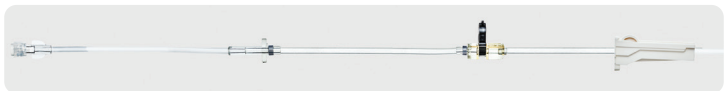Innovators in MRI Patient Care

1.1| Selecting the Proper IV Set

a. Select the **1056 IV Set** when infusing from a bag or bottle fluid source (18mL).

b. Select the **1057 IV Set** when infusing from a syringe fluid source (15mL).
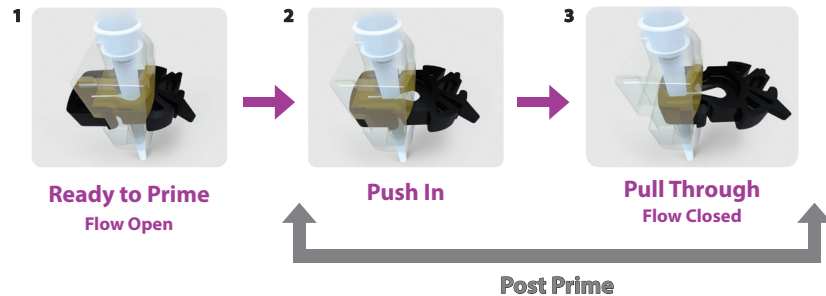

c. Select the **1058 IV Set** as an extension or adapter for current IV Infusions (4mL).

1.2 | Proper Flow Clamp Positioning for Priming the IV Set

1

Ready to Prime
Flow Open

2

Push In

3

Pull Through
Flow Closed

Post Prime

When priming, **DO NOT STRETCH** the **Silicon Segment** of the IV Set as this can cause freeflow issues during infusions.

4 Ensure all roller and/or slide clamps are in the closed position.

1.3 | Power **ON** the Pump

Press the **(I)** button as shown to power on the pump.

1.4 | Open the Door

"Push Down" on the **Purple Button**, "Pull Out" on the **Handle.**

Purple
Button

Handle

Door Pin

Note: Contact your biomed department if the door pin does not look as shown.

3

1.5 | Loading the IV Set

a. Insert the round **Disk** on the IV set into the "**Disk Slot**" on top of the pump.

b. Tilt up and insert the top of the **Black Flow Clamp** into the pump, then push to insert as shown. The clamp will click when secured.
  - **DO NOT Push the Black Flow Clamp** which triggers a **Check Door Alarm** and cause possible **Freeflow.**
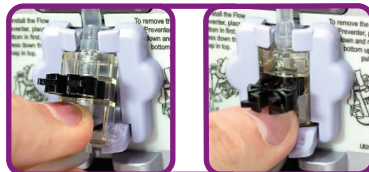
c. Secure tubing inside **Bubble Detector**

d. Firmly **CLOSE THE DOOR**

Ensure **Door Handle** is **FULLY Latched, Open All Clamps**, **Vent Caps.** No fluid flow should be in the drip chamber of the IV set or bubbles in a syringe. If fluid flow is present, clamp the IV tubing and repeat steps 1.2 on page 2.
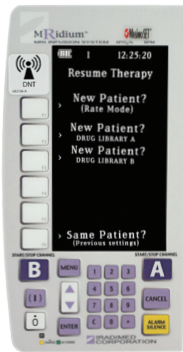
4

2.1 | Selecting Infusion Type: Drug Libraries A or B

Use Library A for Channel A, and Library B for Channel B

a. Press the softkey next to **New Patient (Drug Library A)**
or
Press the softkey next to **New Patient (Drug Library B)**

b. Press the softkey next to **Dose Rate Calc. A**
or
Press the softkey next to **Dose Rate Calc. B**

Startup Screen

Menu Screen

2.2 | Selecting Medication: Drug Library A

a. Press the **UP** or **DOWN** arrow keys to scroll through listed medications. Press **ENTER** when the proper medication is highlighted.

b. Primary is highlighted, press **ENTER** again.

Program entries with **Numeric Keypad** such as:
- Dose; **ENTER**
- Weight (kg); **ENTER**
- VTBI; **ENTER**

c. **Push Start A** will appear when programmed correctly.

d. To start infusion, press the **Start/Stop A Button.**

2.3 | Selecting Medication: Drug Library B

a. Press the **MENU** button.

MENU

b. Press **Dose Rate Cal. B** (Reference 2.1)

c. Press the **UP** or **DOWN** arrow keys to scroll through listed medication. Press **ENTER** when the proper medication is highlighted.

d. Primary is highlighted, press **ENTER** again.

Program entries with **Numeric Keypad** such as:
- Dose; **ENTER**
- Weight (kg); **ENTER**
- VTBI; **ENTER**

e. **Push Start B** icon will appear when programmed correctly.

B Push Start

f. To start infusion, press the **Start/Stop B Button.**

3.1 | Rate Mode: Channel A

a. Press the softkey by **"New Patient- Rate Mode"** on Main Menu Screen.
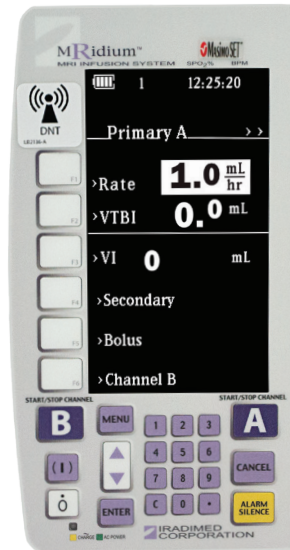
New Patient? (Rate Mode)

(as shown in 2.1)

b. Press the softkey by **RATE** on the screen
-Program RATE number using the **Numeric Keypad**
-Press the **ENTER** Key

c. Press **VTBI** Softkey
- Program the VTBI using the **Numeric Keypad**
- Press the **ENTER** key

Ready to Start will appear at bottom of the screen.

Ready to Start A

d. Press the **Start/Stop A Button** to start infusion.

3.2 | Rate Mode: Channel B

a. Press the softkey by **"New Patient- Rate Mode"** on Main Menu Screen.
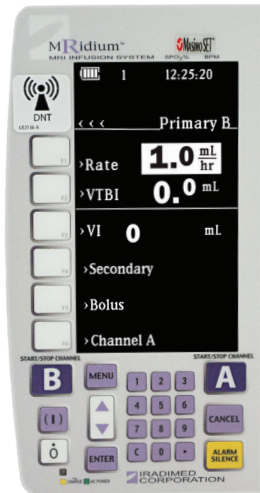
> New Patient?
> (Rate Mode)

(as shown in step 2.1)

b. Press the **Channel B** softkey
-Program RATE number using the **Numeric Keypad**
-Press the **ENTER** Key

c. Press **VTBI** Softkey
- Program the VTBI using the **Numeric Keypad**
- Press the **ENTER** key

Ready to Start will appear at bottom of the screen.

> Ready to
> B Start

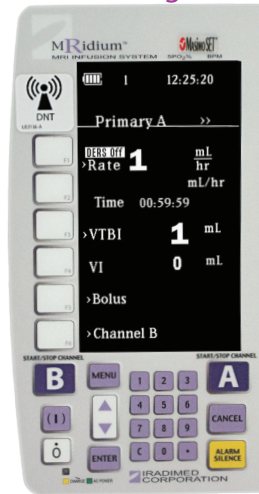d. Press the **Start/Stop B Button** to start infusion.

3.3 | Rate Mode: Channel A or B During Infusion In Progress

a. Press the softkey by **Channel A or B** at the bottom of the screen.

b. Press **Rate** softkey
-Program RATE number using the **Numeric Keypad**
-Press the **ENTER** Key

OR

c. Press **VTBI** Softkey
- Program the VTBI using the **Numeric Keypad**
- Press the **ENTER** key

4 | Proper DERS Bolus Programming*

a. To program a bolus, press **Bolus Softkey A/B** or press **Menu Button.**

b. From Menu screen, press **Softkey** by **Bolus A** or **Bolus B.**
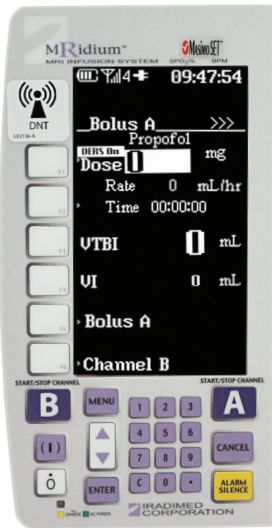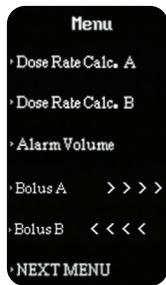
c. Press **Dose** Softkey.

d. Program dose using **Numeric Keypad**

e. **PRESS** the **TIME** button, program time using **Numeric Keypad.**

- Enter the infusion time of 6 seconds (0.1 minutes) to 99 minutes.

f. Press **ENTER** to Start Bolus.

Note: Primary infusion will resume following completion of bolus.
*Bolus option ONLY available if enabled by facility pharmacy.

5 | Resuming Infusion During KVO

a. Press **Start/Stop A or B** (depending on channel in use) to return to running screen.

b. Press the **VTBI** Softkey.
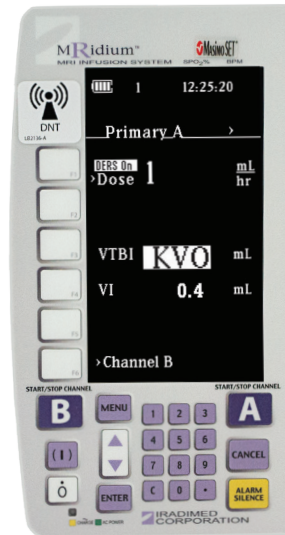
c. Program new VTBI using **Numeric Keypad**

d. Press **ENTER**

   Ready to Start will appear at bottom of the screen.

e. Press **Start/Stop A or B Button** to resume infusion.

First, **Review ALARM Messages**, then **Press the ALARM SILENCE** button before proceeding.

6.1| Check Door Alarm

a. If Door is **OPEN**
  - Pull **BLACK FLOW CLAMP,** Press **ALARM SILENCE.**
  - Set **BLACK FLOW CLAMP** to **Pull Through** Position and Reload.

b. If Door is **CLOSED**, verify Door **Handle** is **FULLY Latched.**
  - Press in on Door **Handle**, **DO NOT** push down on **Purple Button.**
 - Press **ALARM SILENCE.**

c. If Door is **CLOSED** and **FULLY Latched**, Check **Door Pin** Condition.
  - If **Door Pin** damaged or missing, remove pump from use.
 - Contact facility Biomedical Department for repair.
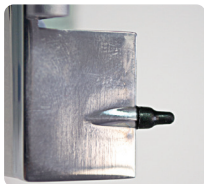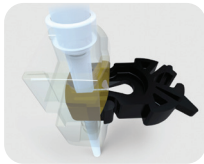
6.2| PT Occlusion Alarm

Alarm will sound if occlusion between the pump and patient occurs. Check between the pump and patient to assure that **All Clamps** have been **Opened** and fluid flow is permitted.
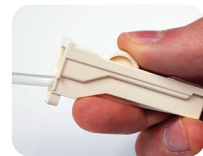
6.3| Inlet Occlusion Alarm

Alarm will sound if an occlusion has been detected between the fluid source and the pump. Check between the IV fluids and the pump to assure that all **Clamps/Vents** are **Opened** and no tubing is **Kinked or Restricted**.
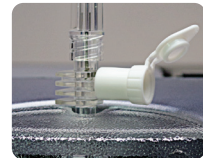
6.4| Bubble Detected Alarm

Alarm will sound if an air bubble is in the IV Set. Open the pump door, remove the set, follow the facility's protocol on removing air. Re-install IV set by repeating **Steps 1.5** and secure tubing through **Bubble Detector.**

7.1| Rate Too High

Visual Message

> Calculated rate exceeds the pump
> maximum infusion rate of 1,400mL/hr.

Resolution

- **During Bolus Setup**: Check "Time" settings and adjust as necessary. Typically the "Time" value needs to be reviewed and increased if appropriate.
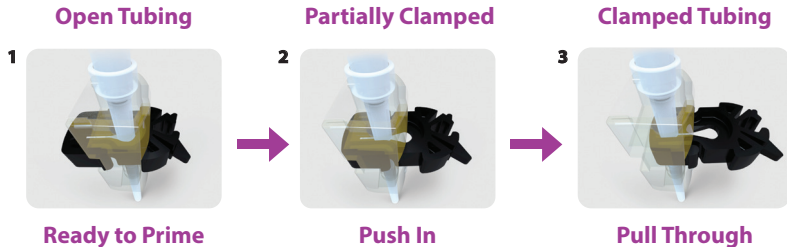
7.2| Rate Too Low

Visual Message

> Calculated rate is below the pump
> minimum infusion rate of 0.1mL/hr.

Resolution

- **During Bolus Setup**: Check "Time" settings and adjust as necessary. Typically the "Time" value needs to be reviewed and decreased if appropriate.

If **ALARMS** persist or other technical issues not mentioned in this guide, Remove Pump from use and contact your facility's Biomedical Department and/or IRadimed Technical Support at: **1-866-677-8022**

Always be aware of the Flow Clamp Position

Open Tubing	Partially Clamped	Clamped Tubing

Ready to Prime	Push In	Pull Through

Full product technical specifications are available upon request.

Refer to MRidium1138 Operation Manual for further instruction.

Information subject to change.
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