



ZERONE Infusion Pump & Syringe Pump



Dual Pump



Single Pump



Features

Clear, Easier and Faster

- Touchable Keypad
 - Easy and Fast way to setup.
- Various Displays
 - 7 segment displays numerical data clearly.
- User Friendly & Ergonomic Design
 - Simple setup process makes user feels comfortable and variety display makes user gets complete information at one glance.
 - Proper weight & superb grip for easy carriage.

Alarm (Visual & Audio) Function

- Door Open
- Air Bubble Sensing
- Low Battery
- Infusion Completion
- Occlusion
 - 1 : 100~400mmHg
 - 5 : 300~700mmHg
 - 9 : 600~1000mmHg
- Drop Error Sensing by Drop Sensor
 - Including Empty error.
 - External Option.
- Device Malfunction - Status of equipment and Alarm.
- Start Reminder Alarm - After Pause Setting Time.

Safety Function

- Keypad Lock - All key don't work except START and on/off key.
- Door Open
- Air Sensor
- Occlusion Sensor
- Drop Sensor
- Nurse Call (Option) - Each unit can be connected with nurse call system

Various Functions

- Self Testing - Every time the unit turns on, self testing is proceeded.
- K.V.O. (Keep Vein Open) - When the infused volume has been reached, flow rate turns into K.V.O. rate automatically.
- Retain Memory - Last setting value will be retained.
- Remaining Time Display
- Alarm Repeat
- Buzzer Level - 9 steps
- Purge - Faster infusion than normal state..
- Titration (Changing the Flow Rate during infusion)
- Micro / Macro Control
- Infusion Setup - Flow rate / Infused volume / Infusion time.
- Interface (Communication) - USB
- Less Noise (Micro Stepping Motor)
- Easy Replacement of Battery

Specification

Product Name	Infusion Pump	
Model Name	INFU-Z 1000	INFU-Z 2000
Pump System	Peristaltic Finger System	
Control Mode	Volumetric Control	
Flow Range	0.1 ~ 999.9ml/h	0.1 ~ 1200ml/h
Volume Range	0.1 ~ 9999ml	0.1 ~ 9999ml
K.V.O.	off, 0.1ml/h , 1~5ml/h	
Bolus Rate	0.1 ~ 999ml/h	1 ~ 1200ml/h
Occlusion Limit	100~1000 mmHg	
Accuracy	±5%	
Display	7 Segment	
Battery	Li-ion Rechargeable Battery - 2200mA/h, 10.8V - Operating Time: approx. 10 hours (Flow Rate 25ml/h) - Recharging Time: 8 hours	Li-ion Rechargeable Battery - 2200mA/h, 10.8V - Operating Time: approx. 5 hours (Flow Rate 25ml/h) - Recharging Time: 8 hours
Electric Shock Protection	Class I, Type CF	
Water proof	IPX2 Standard	
Power Input	AC 100 ~ 240 VAC, 50 ~ 60Hz (Fuse : 250V, T1.6AL)	
Power Consumption	40VA	42VA
External Source	DC12 ~ 18V	
Weight	1.7 Kg	2.7 Kg
Size(W×D×H)	135mm x 118mm x 212mm	198mm×115mm×203mm
Interface	USB	
History Log	2,000 events	
Using Environment	Operating Temperature: 10°C to 40°C Storage Temperature: -10°C to 60°C Humidity: 20% to 95% RH Operation Altitude : 70kPa ~ 106kPa	
Accessory	Operating Manual (English), AC Power Cable, IV Pole Clamp, Drop Sensor (External Option, drop rate range depends on IV sets)	Operating Manual (English), AC Power Cable, Drop Sensor (External Option, drop rate range depends on IV sets)



Features

Clear, Easier and Faster

- Touchable Keypad
 - Easy and Fast way to set up
- Various Displays
 - TFT LCD, 7 Segment displays numerical data clearly.
- User Friendly & Ergonomic Design
 - Simple setup process makes user feels comfortable and variety display makes user gets complete information at one glance.
 - Proper weight & superb grip for easy carriage

Alarm(Visual & Audio) Function

- Door Open
- Air Bubble Sensing
- Low Battery
- Infusion Complete
- Occlusion
 - 9 steps (1: 100~400 mmHg,
5: 300~700 mmHg,
9: 600~1000 mmHg)
- Door Error Sensing by Drop Sensor
 - Including Empty error
 - External Option
- Device Malfunction
 - Status of equipment and Alarm
- Start Reminder Alarm
 - After Pause Setting Time

Safety Function

- Keypad Lock - All key don't work except START and on/off key
- Door Open
- Air Sensor
- Occlusion Sensor
- Drop Sensor
- Nurse Call
 - Each unit can be connected with nurse call system
- Anti Bolus

Various Function

- Self Testing
- K.V.O.
- Retain Memory-Last setting value will be retained.
- Remaining Time Display
- Alarm Repeater
- Buzzer Level – 9 steps
- Purge – Faster infusion than normal state.
- Titration (changing the flow rate during infusion)
- Micro/Macro
- Infusion setup-Flow rate / Infused volume/Infusion time.
- Interface(communication)-USB
- Less Noise(Micro stepping motor)
- Easy Replacement of Battery
- Drug Library





Main Feature

- compact and robust built
- simple, safe and intuitive menu
- history record review and last configuration memory
- titration(change the flow rate while operating)
- bolus
- 2.8 inch wide LCD window
- Automatically detect syringe size
- Calibration function
- Drug Library

Compatible syringes

- 5, 10, 20, 30, 50 ml

Audio-Visual Alarm

- Low battery
- Occlusion
- K.V.O.
- End of Infusion
- Near End of Infusion
- Not be infused
- Infusion Completion
- Syringe not detected
- Door Open
- Internal Error
- Standby

Safety






- Syringe Clamp open-Occlusion
- Keypad Lock- All key don't work except START and ON/OFF key.
- Protect type: Class II
- Self Testing-Every time the unit turns on, self testing is proceeded.
- Long Battery Life (Li-ion battery)
- Anti Bolus
- Door Open



Specification

Product Name	Syringe Pump
Model Name	Syrin-Z 4000
Pump System	Moving drive shaft with stepping motor
Control Mode	Volumetric Control
Flow Range	0.1~1500 ml/h
Volume Range	0.1~9999 ml
K.V.O.	OFF, 0.1 ml/h, 1~ 5 ml/h
Bolus Rate	1~1500 ml/h
Occlusion Limit	100~1000 mmHg
Accuracy	± 3%
Display	2.8 inch TFT LCD, 7 Segment
Battery	<ul style="list-style-type: none"> Li-ion Rechargeable Battery - 2200mA/h, 10.8V - Operating Time: approx. 8 hours (Flow Rate: 25ml/h) <li style="padding-left: 20px;">approx. 6 hours (Flow Rate 999.9ml/h) - Recharging Time: approx. 8 hours
Electric Shock Protection	Class II , Type CF
Waterproof	IPX 4 Standard
Power Input	AC 100~240 VAC, 50~60 Hz (Fuse: 250V, T1.6AL) DC 12~18V
Power consumption	40VA
Weight	2 Kg
Size (WxDxH)	250mm x 180mm x 90mm
Interface	USB Cable <Baud rate: 115200 bps, Data: 8 bit>
History log	2000 events
Using Environment	<ul style="list-style-type: none"> Operation Temperature: 10 °C to 40 °C Storage Temperature: -10 °C to 60 °C Humidity: 20% to 95% RH Operation Altitude: 70kPa ~ 106kPa

Accessory

Picture	Code No.	Description	INFU-Z 1000	INFU-Z 2000	INFU-Z 4000	SYRIN-Z 4000
	PC01-01R	Pole Clamp	○			
	DS01-01R	Drop Sensor	○	○	○	
	DK01-01R	Docking Station Level 3, 210(W)*200(D)*315(H)mm			○	○
	DK01-02R	Docking Station Level 4, 210(W)*200(D)*420(H)mm			○	○
	DK01-03R	Docking Station Level 5, 210(W)*200(D)*525(H)mm			○	○

* Docking is available Level 3 to Level 7



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