

SYS-70

The champion of infusion pump



Specifications

Dimension	160(W) x 236(H) x 82(D) mm
Weight	About 1.42 kg (including the battery of standard configuration)
Date of Manufacture	See the label at the bottom of the product
Classification	Type CF, Class I (internally powered equipment), IP34
Screen	3.5" LCD touchscreen, 7 colors
Compatible IV set	All disposable IV sets conform to the ISO 8356-4 or ISO 8356-8 standards

Basic Parameter

Infusion mode	Rate, Time, Weight, Loading Dose, Trapezia, Sequence, Micro, Drip Mode
Infusion rate range	0.1-1500 ml/h (or 0.03-500 d/min)
Increment	0.10 – 99.99 ml/h, minimum increment 0.01 ml/h 100 – 999.9 ml/h, minimum increment 0.1 ml/h 1000 – 1500 ml/h, minimum increment 1ml/h
VTBI range	0.10-99.99 ml (minimum increment 0.01 ml) 100.0 – 999.9 ml (minimum increment 0.1 ml) 1000 – 9999 ml (minimum increment 1 ml)
Preset time	1 min – 99 h 59 min, minimum increment 1 min
Total volume display	0 – 99999 ml
Accuraczy	$\leq \pm 5\%$
KVO rate	0.1 – 30.0 ml/h
Bolus rate	Manual / Rapid quantitative: 1500 ml/h Automatic bolus: 0.1 – 1500 ml/h
Air-bubble detection	Single bubble size: 25, 50, 100, 200, 300, 500 and 800 (μ l) Cumulated bubble size: 100 μ l/15 min, 200 μ l/15 min, 400 μ l/15 min, 500 μ l/15 min, 600 μ l/15 min, 800 μ l/15 min and 1000 μ l/15 min
Occlusion level	13 levels selectable, 75 mmHg – 975 mmHg

Special Function

Recent therapy	20 recent therapies are recorded and can be used for rapid infusion
Rate change during infusion	Infusion rate can be changed anytime during infusion without stop
Auto screen lock	“OFF” and “ON”. 15s, 30s, 1min, 2min, 5min, 10min, 30min selectable when “ON” “OFF” by default

Drug library	Maximum 2000 drug types can be stored (default 60 preset drug types)
Repeat alarming	Alarm sounds again in 2min, if there is still any errors after the alarm is muted
Event recording	Maximum 2000 events can be stored and play back
Sound volume	10 levels selectable
Power supply switching	When AC/DC power supply is cut off, the infusion automatically switch to internal battery supply

Power Supply

AC power	100 -240 V AC, 50/60 Hz, 35 VA input power
External DC power	DC 12 V, 2 A
Internal battery	Configuration 1(standard): one 11.1V 1500mAh lithium battery; Configuration 2 (optional): two 11.1V 1500mAh lithium batteries; Configuration 3 (optional): two 11.34V 2900mAh lithium batteries;
Battery duration	Configuration 1: > 5 hours @25ml/h with a new battery; Configuration 2 : >10 hours @ 25ml/h with new batteries; Configuration 3 : >20 hours @ 25ml/h with new batteries;
Charging time	Configuration 1: > 4 hours when powered off; Configuration 2 : >8 hours when powered off; Configuration 3 : >15 hours when powered off;

Safe Requirement

Operating conditions	Temperature: 5°C to 40°C Humidity: 15% to 95% RH, non-condensing Pressure altitude: 53.9 kPa – 106.0 kPa
Storage conditions	Temperature: -20°C to +50°C Humidity:10% to 93% RH, non-condensing Pressure altitude: 22.0 kPa – 107.4 kPa

Alarm

Visual and acoustic alarm	Near Finished, Finished, OCCL, Up OCCL, Low Battery, Battery Empty, No Battery, No Power Supply, Air Bubble, No Drip Sensor, No Drop, Drop Error, Reminder Alarm, Standby End, Pre OCCL, Door Open
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Connectivity

WiFi / Wired	To connect central infusion monitoring system, nurse call, infusion pump network
Barcode scanning	Patient information input by barcode scanning
Data interface	Supported RS485, USB 3.0, LAN and WiFi (optional)

Mounting

Handle	Available
Pole clamp direction	Can be mounted at different directions, 90°/180°/270°/360°



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EN-SYS-50-2P-Version 1.1

SYS-50 Syringe Pump

Simple and Comfortable

- 3.5” Touch screen operation
- Large and clear user interface, providing medical staff with a pleasant visual experience and facilitating real-time observation of the infusion status



Information interconnection

- Optional built-in WiFi module
- Can connected to HIS/CIS via WLAN or LAN

Innovative and Safe

- Syringe slider protection
- Internal battery up to 20 hours continuous power supply

Smart and Convenient

- Certificated by EN1789 standard for ambulances and medical transportation vehicles
- Continuous titration: changing the flow rate without stopping the infusion

Specifications

Dimension	362(L) x 126(W) x 151(H) mm
Weight	1.8kg (including battery)
Screen	3.5 inch LCD touch screen
Classification	Defibrillation-proof type CF applied part, IP34
Syringe types	All standard syringe of 5ml, 10ml, 20ml, 30ml, 50ml, 60ml

Basic Parameter

Infusion modes	Rate, Time, Weight, Sequence, Trapezia, Loading dose, Micro, TIVA
Infusion rate range	0.1-2000 (ml/h), minimum increments 0.01 ml/h
VTBI range	0.1-9999 ml
Accumulated volume	0-9999.99 ml
Accuracy	± 2%
KVO rate	0.1 - 5 ml/h
Bolus rate	0.1-2000 ml/h
Occlusion level	11 levels selectable, 225mmHg – 975mmHg

Special Function

Recent therapy	20 recent therapies are recorded and can be directly used by simple selection
Rate change during infusion	Infusion rate can be changed during infusion without stop
Auto screen lock	Available
Repeat alarm	Alarm sounds again in 2min, if there is still any errors after the alarm is muted
Storage	Maximum 2000 records can be stored and reviewed
Sound Volume	10 levels selectable
Power supply switching	When AC/DC power supply is cut off, the infusion automatically switch to internal battery supply

Power Supply

AC power	100 -240, 50/60 Hz, 40 VA input power
External DC power	DC 12 V, 1.5 A
Internal battery	Lithium battery 10.8 V, 2600 mAH

Battery & Charging time

Configuration	Fast charging time (Power off)	Normal charging time (Power on)	Battery Operation time
One 2600mAh @10.8V battery	Within 5 hours	Within 10 hours	Not less than 10 hours (Two channels)
Two 2600mAh @10.8V batteries	Within 10 hours	Within 20 hours	Not less than 20 hours (Two channels)

NOTE: Infusion at 5ml/h with new battery under room temperature

Alarm

Near Finished, Finished, Syringe Empty, Syringe Near Empty, OCCL, Pressure Alarm, Low Battery, Battery Empty, No Battery, No Power Supply, Syringe Unknown, Syringe Install Error, Standby End, Syringe Start Fail, Reminder Alarm, Tube Off (only 30, 50/60ml syringe)

Connectivity

WiFi / Wired	Available
Data interface	USB

Safe Conditions

	Temperature:	Humidity:	Pressure altitude
Operating conditions	5°C to 40°C	15% to 95% RH, non-condensing	54.0 kPa – 106.0 kPa
Storage conditions	-20°C to +50°C	10% to 93% RH, non-condensing	22.0 kPa – 107.4 kPa

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