

Great accuracy to the last drop

HSP-60 PRO Infusion Pump



Safety

Smart pump, safe therapy



Standardization

Professional solution guided by standard



Customization

The pump specially for your department

Built-in
DoseControl

- MRI compatible with HSP-60 Pro MRI workstation (optional)
- Built-in DoseControl function, a professional drug library solution
- Medical grade touchscreen, user friendly
- High sensitive pressure sensor for real-time pressure display
- Connectable with HiS/CIS via either WIFI or LAN



Blood transfusion certified



Self-adapting peristaltic System

1STEP

One step IV set installation

**0.2ml
Anti-bolus**

Anti-bolus system

Specifications

Dimension	214 x 75 x 142mm (WxHxD)
Weight	< 1.4kg (including battery)
Classification	Defibrillation proof type CF applied part , IP33
Compatible IV Set	All disposable IV sets conforming to ISO 8536-4 and ISO 8536-8 standards
Screen	3.0 inch LCD touchscreen, brightness 10 levels adjustable
Standard accessories	Power cord, Handle, Pole clamp
Optional accessories	Drop sensor, Nurse caller, Barcode scanner

Basic Parameter

Infusion mode	Rate Mode, Time Mode, Weight Mode, Sequence Mode, Trapezia Mode, Micro Mode, LoadingDose Mode, Drip Mode, and Intermittent Mode
Infusion rate range	0.10-2000.0 ml/h (20d/ml IV set) 0.10-667.0ml/h (60d/ml IV set)
Minimum increment of infusion rate	0.10-99.99ml/h (minimum increment: 0.01ml/h) 100.0-999.9ml/h (minimum increment: 0.1ml/h) 1000-2000ml/h (minimum increment: 1ml/h)
VTBI range	0.10~9999.99ml (minimum increment: 0.01ml)
Preset time	00:00:01~99:59:59 (minimum increment: 1s)
Total volume display	0.00~9999.99ml (minimum increment: 0.01ml)
Accuracy	Infusion inaccuracy: $\pm 5\%$ Infusion inaccuracy: $\pm 3\%$ (When the brand of infusion set is MC-SI)
KVO rate	0.10-30.00ml/h (minimum increment: 0.01ml/h) Adaptive KVO available, can adjust KVO rate according to the infusion rate
Bolus & Purge rate	0.10-2000ml/h
Bolus VTBI	0.10-999.90ml (minimum increment: 0.01ml)
3 bolus ways selectable	Automatic/Manual/Semi-Auto bolus
Occlusion level	Patient side occlusion: 50~1125mmHg, 15 levels are available for selection Fluid side occlusion alarm is supported
Single Bubble detection	Air bubble alarm accuracy: $\pm 15\mu\text{l}$ or $\pm 20\%$ (whichever is greater) Bubble Level:15, 25, 50, 100, 200, 300, 500, and 800 (μl)
Total Bubble detection	Bubble Level: 100 μl /15min, 200 μl /15min, 400 μl /15min, 500 μl /15min, 600 μl /15min, 800 μl /15min, and 1000 μl /15min

Alarm

Visual & acoustic alarm	Infusion End, BAT Empty, Patient Side OCCL, Fluid Side OCCL, Infusion End KVO Start, KVO End, Relay Failed, Air Bubble In Line, No Drop, Too Many Drops, Too Few Drops, Standby End, No Drop Sensor, Infusion Near End, No Battery, No AC Power, BAT Low, Reminder Alarm, Pre OCCL
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Special function

Blood transfusion	Blood transfusion certified, can be used for blood transfusion (with transfusion sets)
Enteral nutrition	Can be used for enteral nutrition (with enteral giving sets)
Recent therapy	20 recent therapies are recorded and can be used for rapid infusion
Rate change in infusion	Infusion rate can be changed anytime during infusion, no need to stop the infusion
Relay function	Continuous infusion among multiple pumps, guarantee non-stop therapies for drug relay and multi drug relay
Drug library DoseControl mode	Built-in drug library with Dose error reduction system Support maximum 30 profiles (clinical care area) and 5000 drugs Maximum 1000 drugs in every profile (clinical care area) Programmable drug library information and pump configuration
Screen lock	Both Manual screen lock and Auto screen lock are available
Anti-Bolus	Anti-Bolus function available, unintended bolus $\leq 0.2\text{ml}$
Repeat alarming	Alarm sounds again in 2 minutes if there is still alarm after alarm is muted
Event recording	Maximum 3000 events can be stored for review
Sound Volume	12 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, power consumption 45 VA
External DC power	12V DC, 2.5 A
Internal battery	Lithium battery 10.8 V, 3000mAh
Battery duration	10 hours @25ml/h with a new battery
Charging time	No longer than 4 hours (the pump is powered off during the charge)

Connectivity

WiFi / Wired	To connect central infusion monitoring system, nurse caller
Barcode scanning	Patient information input by barcode scanner
Data interface	Supported, USB 2.0, USB 3.0, RJ45, Wi-Fi
Protocol	HL7

Mounting

Inside docking station	Supported
Between pumps	Stackable between any HP series syringe / infusion pumps produced by Medcaptain
Handle	Available
Pole clamp direction	Can be mounted at different directions, 90°/180°/270°/360°

Safe requirement

Operating conditions	Temperature: 5°C to 40°C Humidity: 15% to 95% RH, non-condensing Pressure altitude: 57.0 kPa – 106.0 kPa
Storage conditions	Temperature: -20°C to +55°C Humidity: 10% to 95% RH, non-condensing Pressure altitude: 22.0 kPa – 107.4 kPa

HSP-60 PRO

Infusion Workstation

Built-in

 **DoseControl**
RelayControl



Specifications

Name	Infusion workstation
Model	HSP-60 PRO
Power supply	AC Power supply: 100-240V, 50/60 Hz Power input: 200VA per unit
Cabinet body quantity	1 to 3
Syringe/infusion pump combination channels	1 to 12
Barcode scan	When patient information is input by barcode scanner
Optional accessories	PCA controller, Nurse caller, Barcode scanner
Operating conditions	Temperature: 5°C to 40°C Humidity: 15% to 95% RH, non-condensing Pressure altitude: 57.0 kPa – 106.0 kPa
Storage conditions	Temperature: -20°C to +55°C Humidity: 10% to 95% RH, non-condensing Pressure altitude: 22.0 kPa – 107.4 kPa
Classification	IP23
Dimensions	273(L)*172(W)*397(H)mm
Weight	About 3.0 kg

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