SYRINGE PUMP

touching for life

SINOHERO SH-509i

SH-509i

- LED & LCD dual display
- Compact and Ergonomic design with handle for fast transport
- Users friendly interface for easy operation
- Super Compatibility with all standard syringes
- Various alarm function with volume adjustment lead peace of mind
- Large history data review and last configuration memory to easy review
- Anti-bolus System to improve infusion safety
- Drugs library &Wireless monitoring upgradable

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Technical Specification

Syringes	5ml, 10ml, 20ml, 30ml, 50(60)ml any standard
Flow Rate Range	5ml: 0.1ml/h~150ml/h
	10ml: 0.1ml/h~300ml/h 20ml: 0.1ml/h~600ml/h
	30ml: 0.1ml/h~900ml/h 50ml: 0.1ml/h~1200ml/h
Flow Rate Step	0.1ml/h (0.1~100ml/h Micro Mode)
Flow Rate Accuracy	≤±2% (including Mechanic Accuracy ±1%)
Volume Limit	0.1~9999.9 ml
Purge Rate	5ml: 150ml/h, 10ml: 300ml/h, 20ml: 400ml/h, 30ml: 600ml/h, 50ml: 1200ml/h
BOLUS	5ml: 10ml/h~150ml/h
	10ml: 10ml/h~300ml/h; 20ml: 10ml/h~400ml/h
	30ml: 10ml/h~600ml/h; 50ml: 10ml/h~1200ml/h
Syringe Modes	Flow Rate, TimeNolume, Drug/Weight, BOLUS
KVO	0.1~5ml/h
Occlusion Alarm	3-level sensitivities setting
Audio & Visual Alarm	Finished, Check Syringe, Drive Disengaged, Pause Overtime, Near Empty, Empty, Battery Low, Battery run out, Motor Malfunction, System failure, Occlusion, AC lost etc.

Drug Library	upgradable
Wireless Monitoring	upgradable
PCA Module	upgradable
History log	Standard
Display	2.8" color TFT
Power Source	≤15W, 85V~265V, 50Hz/60Hz
Battery	DC12V, 2000mAh (last 7 hours or up at 5ml/hr after fully recharged)
Operation Condition	Temperature: +5~+40℃, Relative Humidity: ≤80%, Atmospheric Pressure: 70KPa~106Kpa
Dimensions	297mm*130mm*108mm
Weight	1.9kg

Battery Indicator
Volume Rate Display
Alarm Light
Working Light
ON/OFF
MUTE
LOGO
AC Power
Clamp

Volume Rate Display
Adjusting Keys
PURGE/BOLUS
Start
Stop
Confirm
Menu/Exit
Finger Grips

Specification subject to be changed without prior notice.

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Syringe Pump

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Accuracy **Safety** **Alarm**

SINOHERO
SH-510i

MODEL
80.00 ml
P3
Preset(ml) time(h.m.s) Grand total(ml)
800.00 10.00.00 0.00
BD-H 30ml

Preset
speed
Grand total
model

MENU
BOLUS
START STOP

1 2 3
4 5 6
7 8 9
0 . C/CLR

ON OFF

SH-510i

- 3.5" Sharp and Large Display ensures clear view from distance
- Open system compatible with mostly standard syringe sets
- Users friendly interface for easy operation
- Dual CPU to ensure ultimate safety and reliability
- Various alarm function with volume adjustment lead peace of mind
- Large history data review and last configuration memory to easy review
- Upto 9 hours long battery life

CE

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Technical Specification

Injection Mode	Constant Rate、Time mode、 Drug Weight、Micro、Sequential Mode
Syringe Size	5ml、10ml、20ml、30ml、50/60ml，auto-recognition
Flow Rate	5ml：0.10ml/h-60.00ml/h 10ml：0.10ml/h-300.00ml/h 20ml：0.10ml/h-400.00ml/h 30ml：0.10ml/h-600.00ml/h 50/60ml：0.10ml/h-1200.00ml/h
Increment	0.01ml/h
Preset Time	1s-99hr59min59s
Parameter Changed during Injection	Support change of VTBI, flow rate during injection
Accuracy	≤±2%（±1% mechanical accuracy included）
Preset Volume(VTBI)	0.10-9999.99ml or empty
Accumulated Volume	0.00-9999.99ml
Purge Rate	5ml：30.00-60.00ml/h 10ml：150.00-300.00ml/h 20ml：200.00-400.00ml/h； 30ml：300.00-600.00ml/ 50ml：600.00-1200.00ml/h
Bolus Rate	5ml：0.10ml/h-60.00ml/h 10ml：0.10ml/h-300.00ml/h 20ml：0.10ml/h-400.00ml/h 30ml：0.10ml/h-600.00ml/h 50/60ml：0.10ml/h-1200.00ml/h
KVO	0.10 -5.00ml/h adjustable
Occlusion Pressure	8 level adjustable，20Kpa-150Kpa，dynamically pressure value display.
Alarm	Finished, near finished, near empty, empty, occlusion, syringe disconnected, no operation, parameter error, syringe size error, low battery, battery lost, battery ran out, AC power lost, abnormal injection, communication error
Syringe Management	Preset 20 syringe brands, can add or edit the brand, accept all brands after calibration
Display	3.5'TFT color LCD； 10 level brightness adjustable
Power Supply	AC Power：100V-240V，50Hz/60Hz，≤45VA
Communication Port	USB,RJ45 for future use, Ethernet Port
Battery	Rechargeable Lithium battery, DC11.1V，3000mAh； operating time: ≥9h@5ml/h
Alarm Voice	Standard Medical Alarm Voice with Mute function, 8 levels adjustable.
Event Log	10000 event log, can be transmitted to PC with USB
Software Upgrade	Upgrade the software with USB
Operation Environment	+5℃- +40℃，Relative humidity：20%-90%；Atmospheric pressure：70 – 106 Kpa
Classification	Class II，Type CF；IPX4
Dimension(1PCS)	Device Size: 275mm×145 mm×160mm; box size: 320×230×195mm; N.W.: 2.1kg; G.W.: 2.8kg
Dimension(4PCS)	Device Size: 275mm×145 mm×160mm; box size: 490×360×450mm; N.W.: 11.2kg; G.W.: 12kg
Other Function	Double CPU, Password function, Multi Language, Pressure Release function, 90 ºrotable IV pole, 4 soft function key, key lock function, numeric keypad, Pause Function, etc.
Application	Intravenous injection

Specification subject to be changed without prior notice.

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INFUSION PUMP

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SINOHERO
SH-608

RATE N· Tube 20d/ml
60.0 ml/h

VTBI Empty ml
VOLUME 0.0 ml
Pa· H
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VTBI VOLUME MENU

SH-608

- 3.2" Sharp and Large Display ensures clear view from distance
- Users friendly interface for easy operation
- Dual CPU to ensure ultimate safety and reliability
- Precise control of the infusion rate and infusion volume
- 3 Different Infusion Modes meet most clinical needs
- Large history data review and last configuration memory to easy review
- Anti-bolus System to improve infusion safety
- Flow rate changeable during infusion
- Drugs library & Wireless monitoring upgradable

TÜV SÜD CE 0123

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IV Sets	Standard IV sets of 10,15,20,60d/ml, with diameter 3.4-4.5mm
Infusion Modes	Drip-rate(option), Volumtric
Infusion Accuracy	≤±5% (after calibration)
Drip-rate Range	20d/ml IV Sets:1-400d/min; 60d/ml IV Sets:1-150d/min
Flow Rate Range	0.1ml/hr-1200ml/hr
Volume Limit	1-9999 ml
Purge Rate	600ml/hr
BOLUS	Default 300ml/h with volume 3 ml, Values adjustable
KVO	0.1-10ml/hr
Bubble Detection	Ultrasonic with 3-level sensitivities setting, 50~300ul
Occlusion Alarm	3-level sensitivities setting
Audio & Visual Alarm	Bubbles, Door open, Finished, Pause Overtime, Leakage, Empty , Battery Low, Motor reverse, Incorrect parameters setting, Motor failure, Abnormal drip sensor ,Occlusion , AC lost etc.
History log	Standard
Power Source	≤15W, 85V-265V,50Hz/60Hz
Display	3.2 in TFT
Battery	DC12V,2000mAh (last 4 hours at 25ml/hr after fully recharged)
Operation Condition	Temperature: +5C - +40C,
Dimensions	Relative Humidity ≤80%,Atmospheric Pressure 70KPa-106Kpa
Weight	167mm X 125mm X 115mm , 1.9kg
Occlusion pressure level	High:（90-110 kPa）　Medium:（60-80 kPa）　Low:（30-50 kPa）
Package	4pcs/carton　46x35x32cm　G.W.: 10.5kg

Alarm Light — LOGO

Main Display

Function Key — Doorknob

Number Key — Mute

Start/Stop — AC Power

Working Light — Battery indicator

PURGE/BOLUS — ON/OFF

Infusion Pump

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SINOHERO
SH-610

VTBI:8888.8 ml
TIME:98h 45 min

30 d / min
90.0 ml / h

0.0 ml

Drip Mode
HANAHAO   20 d / ml

Pause

MENU   START
BACK   STOP

1 2 3
4 5 6
7 8 9
. 0 C/CLR

SET/ENTER
BOLUS
POWER

Accuracy   **Safety**   **Alarm**

SH-610

- 3.2" Sharp and Large Display ensures clear view from distance
- Open system compatible with mostly standard IV Sets
- Users friendly interface for easy operation
- Dual CPU to ensure ultimate safety and reliability
- Precise control of the infusion rate and infusion volume
- 4 Different Infusion Modes (Option) meet most clinical needs
- Anti-bolus System to improve infusion safety
- Upto 10 hours long battery life

CE

SINOHERO

Technical Specification

Infusion Mode	Volume Mode、Time Mode、Drug Mode、Bolus Mode、Drip mode
Rate Unit	ml/h、volume/time、d/min
IV Sets	Standard single use IV sets (10、15、20、60d/mL, with diameter 3.4 ~ 4.5mm)
Flow Rate	1.0ml/h～1200ml/h；1.0d/min～400d/min
Increment	1.0-99.9ml/h with 0.1ml/h；100-1200ml/h with 1ml/h
Deviation	Flow Rate：≤±5%（after calibration）
VTBI	0.1～9999.9 ml
Total Volume	0～9999.9 ml
Time	1min ～ 99h59min
Purge Rate	600ml/h，displaying purge volume
KVO	0.1ml/h~5.0ml/h，adjustable
Keypad	Numeric Keypad，user friendly
BOLUS	Bolus function available,flow rate adjustable
Night Mode	Night Mode, No operation for 5mins, LCD brightness lower automatically.
Occlusion Pressure	Occlusion pressure detection , 40~ 130KPa ,0～9 levels adjustable.
Detection	dynamic pressure value display.
Air bubble Detection	Ultrasonic detection,≥50μL,Single bubble volume: 50 ~300μl,0～9 levels adjustable.
Volume	0～9 levels adjustable
Motor Anti-reverse Function	Anti-reverse function to prevent upstream
IV Set	Open System. Can accept all kinds of IV Set after calibration
Self-Testing	Self-Testing when start up and during infusing
Audio Visual Alarm Message	Air bubble，occlusion, door open, infusion finish, standby time expired, battery low, battery empty, battery disengaged, AC Power disengaged, motor error, pump error, pressure sensor error, parameter error, system abnormal
Screen Power Supply	3.2'brightness LCD AC: 100V ~ 240V, 50Hz/60Hz, ≤ 25VA
Battery	Rechargeable Lithium battery: DC11.1V, 3000mAh;operating time: ≥ 10 hours @25ml/h，displaying remaining battery
Operation Conditon	Temperature:5°C~40°C,Relative humidity:20% ~ 80% ,Atmospheric pressure:70~106KPa
Transportation & Storage	Temperature:-20°C~55°C,Relative humidity:10% ~ 95% ,Atmospheric pressure:50~106KPa
Classification	Type CF, Class Ⅰ, IPX3, ISO13485, CE, IEC60601
Dimension(1PCS)	Device Size: 145mm×150mm×200mm；Packing size: 235×195×275（mm); N.W.:1 .7kg; G.W.: 2.6kg
Dimension(4PCS)	Device Size: 145mm×150mm×200mm；Packing size: 490x410x300（mm); N.W.:10.5kg; G.W.: 11kg

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