

Specifications: M300-V



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Syringe pump

M300-V



Working modes

Rate mode, Time mode, Weight mode, Interval mode, Ramp mode, Sequential mode, Micro mode, TIVA mode, First dose mode

Physical Characteristics

Size: 300mm×145mm×130mm
Weight: 2 kg
Screen Size: 4.3" touch screen
resolution: 480 × 272

Operation Environment

Temperature: 5~40°C
Humidity: 15~95% (non-condensing)
Power requirement: 100-240V~, 50/60Hz±1Hz
Battery Type: Rechargeable Lithium-ion battery

Battery Capacity: 2200mAh

Battery Recharging

Time: Maximum 4 hours for charging (power off)

Battery backup: 8 hours for continuous working (at 5ml/h)

Indicator:

Alarm indicator
Power indicator
Battery indicator

Interfacing

AC power interface
RJ45
Multi-functional connector
USB

Modes:

Rate mode setting range:

5ml 0.10ml/h~100.00ml/h
Step: 0.01ml/h
10ml 0.10ml/h~300.00ml/h

20ml Step: 0.01ml/h
0.10ml/h~600.00ml/h
Step: 0.01ml/h
30ml 0.10ml/h~1200.00ml/h
Step: 0.01ml/h
50/60ml 0.10ml/h~2200.00ml/h
Step: 0.01ml/h;
Preset range 0.10~9999.99ml; Step: 0.01ml

Time mode setting range:

Time range: 00:00:01~99:59:59(h: m: s);
Step: 1s
Preset range 0.10~9999.99ml; Step: 0.01ml

When the preset unit is not milliliters Drug concentration or (dosage, liquid dosage), preset dosage and time can be set, and the rate can be automatically converted

Time range: 00:00:01~99:59:59(h: m: s);
Step: 1s
Preset range 0.10~9999.99ml; Step: 0.01ml

Drug concentration setting range 0.001~999.999ml; Step: 0.01ml; Unit: g, mg, ug, ng, U, IU, KU

Medicine volume setting range 0.10~9999.99ml; Step: 0.01ml

Weight mode setting range:

Parameter The patient's weight, drug concentration or (Medicine volume, liquid drug volume), dose rate, preset volume can be set, and the injection rate is automatically calculated

Weight range: according to the parameters set above.
 Preset range 0.10~500.00kg; Step: 0.01kg
 Drug concentration setting range 0.10~9999.99ml; Step: 0.01ml
 0.001~9999.999ml; Step: 0.001ml; Unit: g/ml, mg/ml, ug/ml, ng/ml, U/ml, IU/ml, KU/ml

Medicine volume setting range 0.001~999.999; Step: 0.001; Unit: g, mg, ug, ng, U, IU, KU

Liquid drug volume setting range 0.10~9999.99ml; Step: 0.01ml;

Dose rate setting range 0.001~999.999; Step: 0.001; Unit: g/kg/h, mg/kg/h, ug/kg/h, g/kg/min, mg/kg/min, ug/kg/min

Interval mode setting range:

5ml 0.10ml/h~100.00ml/h
 Step: 0.01ml/h
 10ml 0.10ml/h~300.00ml/h
 Step: 0.01ml/h
 20ml 0.10ml/h~600.00ml/h
 Step: 0.01ml/h
 30ml 0.10ml/h~1200.00ml/h
 Step: 0.01ml/h
 50/60ml 0.10ml/h~2200.00ml/h
 Step: 0.01ml/h;
 Preset range 0.10~9999.99ml; Step: 0.01ml
 Interval time range: 00:00:01~99:59:59(h: m: s);
 Step: 1s
 Interval speed setting range 0.001~999.999; Step: 0.001; Unit: g/kg/h, mg/kg/h, ug/kg/h, g/kg/min, mg/kg/min, ug/kg/min

Ramp mode setting range:

5ml 0.10ml/h~100.00ml/h
 Step: 0.01ml/h
 10ml 0.10ml/h~300.00ml/h
 Step: 0.01ml/h
 20ml 0.10ml/h~600.00ml/h
 Step: 0.01ml/h
 30ml 0.10ml/h~1200.00ml/h

50/60ml Step: 0.01ml/h
 0.10ml/h~2200.00ml/h
 Step: 0.01ml/h;
 Preset range 0.10~9999.99ml; Step: 0.01ml
 Time (Total time, up time, down time) range 00:00:01~99:59:59(h: m: s);
 Step: 1s

Sequential mode setting range:

5ml 0.10ml/h~100.00ml/h
 Step: 0.01ml/h
 10ml 0.10ml/h~300.00ml/h
 Step: 0.01ml/h
 20ml 0.10ml/h~600.00ml/h
 Step: 0.01ml/h
 30ml 0.10ml/h~1200.00ml/h
 Step: 0.01ml/h
 50/60ml 0.10ml/h~2200.00ml/h
 Step: 0.01ml/h;
 Preset range 0.10~9999.99ml; Step: 0.01ml
 Time range 00:00:01~99:59:59(h: m: s);
 Step: 1s

Micro mode setting range:

Preset range 0.10~9999.99ml; Step: 0.01ml
 Speed setting range 0.10~100.00ml/h; Step: 0.01ml;

TIVA mode setting range:

Parameter settings Patient weight, drug concentration, drug volume, induction parameters (induction volume, induction time), maintenance parameters
 Weight range: 0.10~500.00kg; Step: 0.01kg

First dose mode setting range:

5ml 0.10ml/h~100.00ml/h
 Step: 0.01ml/h
 10ml 0.10ml/h~300.00ml/h
 Step: 0.01ml/h
 20ml 0.10ml/h~600.00ml/h
 Step: 0.01ml/h
 30ml 0.10ml/h~1200.00ml/h
 Step: 0.01ml/h
 50/60ml 0.10ml/h~2200.00ml/h
 Step: 0.01ml/h;
 Preset range 0.10~9999.99ml; Step: 0.01ml

Bolus setting range:

5ml	0.10ml/h~100.00ml/h Step: 0.01ml/h;
10ml	0.10ml/h~300.00ml/h Step: 0.01ml/h;
20ml	0.10ml/h~600.00ml/h Step: 0.01ml/h;
30ml	0.10ml/h~1200.00ml/h Step: 0.01ml/h;
50/60ml	0.10ml/h~2200.00ml/h Step: 0.01ml/h;

Accuracy (according to injection rate):

≤1.00ml/h	≤±5%
1.00~2200.00ml/h	≤±2%
Mechanical precision	≤±1% (The percentage error between the specified motion distance and the actual motion distance in the full stroke of the syringe pump)

Feature:

Channel	Two-channel
Preset range	0.10~9999.99ml; Step: 0.01ml
Useable syringes:	Selectable within range
KVO (keep vein open):	0.10~5.00ml/h; (KVO will last for 30 minutes, then alarm) Step:0.01ml/h
Injection volume display range:	0.00~9999.99ml; Step: 0.01ml
Medicine volume setting range	0.10~9999.99ml; Step: 0.01ml
Maximum injection volume under a single fault:	0.1ml
Drug type	2100
Syringe records	2000 sets
Night mode	Volume and screen brightness automatically adjust
Bolus	Manual and automatic
Software Update	Via USB port
No operating time	0~5min(step:1min)
Lock Screen	Manual and automatic
Bed number	0~999

Screen brightness	1 to 10
Volume	1 to 10
Protection	IP23
Log reviews and trend charts	Available
Anti-Bolus	Available
Exhaust bubble function	Available
Nurse call	Available
DPS	Available
Buttons backlight	Available
Self-test	Available
Power off data storage	Available
FTP, TCP function	Available

Alarm:

Alarm level:	1 to 10
Alarm volume:	Max: 65db (The remaining 1 ml) Min: 45db (The remaining 1 ml)
Blocking alarm:	Range: 150~1000mmHg; Accuracy: ±20% or ±100mmHg, whichever is greater default setting: 600 mmHg Unit: mmHg, kPa, bar, psi Blocking alarm, no-operation alarm, Will Complete alarm, emptying alarm, completion alarm, syringe off alarm, push rod error alarm, battery low alarm, system error alarm, power line off alarm, battery exhausted Alarm, main motor speed abnormal alarm, main motor direction abnormal alarm, main motor from drive detection direction abnormal alarm, main motor slave drive detection speed abnormal alarm, slave drive 24V power supply abnormal alarm, slave drive communication abnormal alarm, KVO complete, board Communication error, battery not connected