

Specification: M500-V



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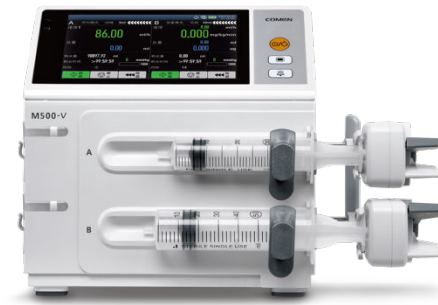
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Syringe pump

M500-V



Working modes

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

Physical Characteristics

Size: 300mm×150mm×155mm
 Weight: 3.5 kg
 Screen Size: 6.2" touch screen
 resolution: 800 × 480

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: 5hours 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
 Step: 0.01ml/h
 20ml 0.10ml/h~600.00ml/h

30ml Step: 0.01ml/h
 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 according to the parameters set above.

Weight range: 0.10~500.00kg; Step: 0.01kg
 Preset range 0.10~9999.99ml; Step: 0.01ml

Drug concentration setting range 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: mg, ug, ng, U, IU, KU	20ml	Step: 0.01ml/h 0.10ml/h~600.00ml/h
Liquid drug volume setting range	0.10~9999.99ml; Step: 0.01ml;	30ml	Step: 0.01ml/h 0.10ml/h~1200.00ml/h
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	50/60ml	Step: 0.01ml/h; 0.10ml/h~2200.00ml/h
		Preset range	0.10~9999.99ml; Step: 0.01ml
		Time range	00:00:01~99:59:59(h: m: s); Step: 1s

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 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 (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

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

Cascade mode setting range:

S1	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;
S2	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
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: KVO (keep vein open):	Selectable within range 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	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

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