



Infusion pump



Infusion accuracy	± 5%
Infusion set applicable	V brand infusion set 15, 20, 60 drops/ml, Outer diameter of infusion set: 3.4 ~ 4.5 mm. The infusion set used in this pump must meet the requirements of ISO 8536-4:2019 Optional: Hawkmed brand dedicated infusion set
Infusion methods	Flow Mode Drop Mode Time Mode Micro Mode Weight Mode Dose Mode Medical List Step Mode Programmable NPT Mode Intermittent
Flow range	0.1 to 1200 ml/h Increment options: 0.01 ml/h, 0.1 ml/h, 1 ml/h, 10 ml/h or 100 ml/h
Volume to be infused (VAP)	1-9999ml, or 0 (no limit on VAP) Increment options: 0.01ml, 0.1ml, 1ml, 10ml, 100ml, or 1000ml
Infused volume	0.0 to 36000 ml
Alarm functions	Visual and audible alarms: door open, air in line, occlusion, infusion completion, infusion almost complete, no operation, low battery, dead battery, malfunction, etc.

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Since 1992, TEM SEGA is the leading manufacturer in Europe of gaseous anesthesia devices for veterinarian purpose. Our device can be customized to fit many species from mice to horses, and drive all types of labs gas (air, oxygen, CO₂, Nitrogen and toxic gas). Our values are to offer the highest human and animal protection, improve productivity and precision in research labs, propose modularity and flexibility, and comply with ethic guidelines. Our technical team install, train and support everywhere in the world.

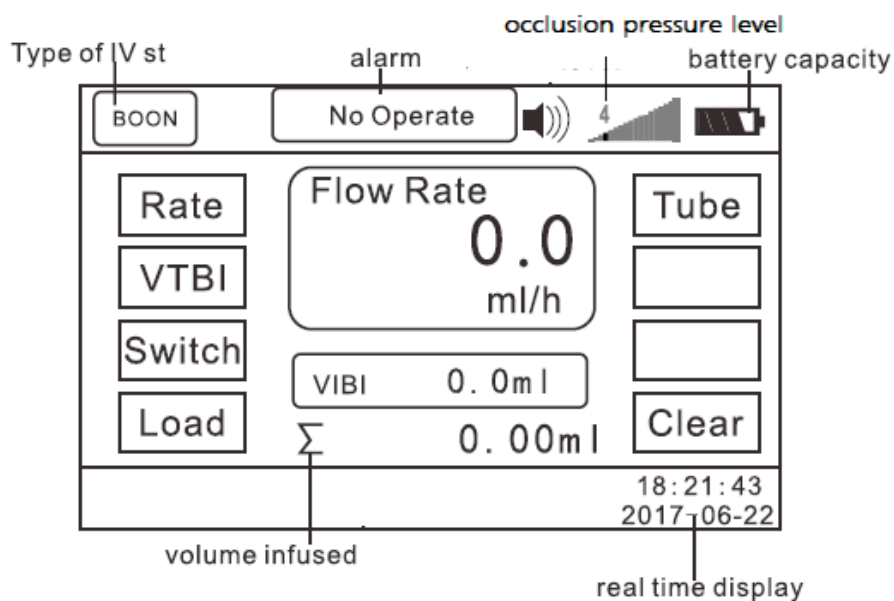
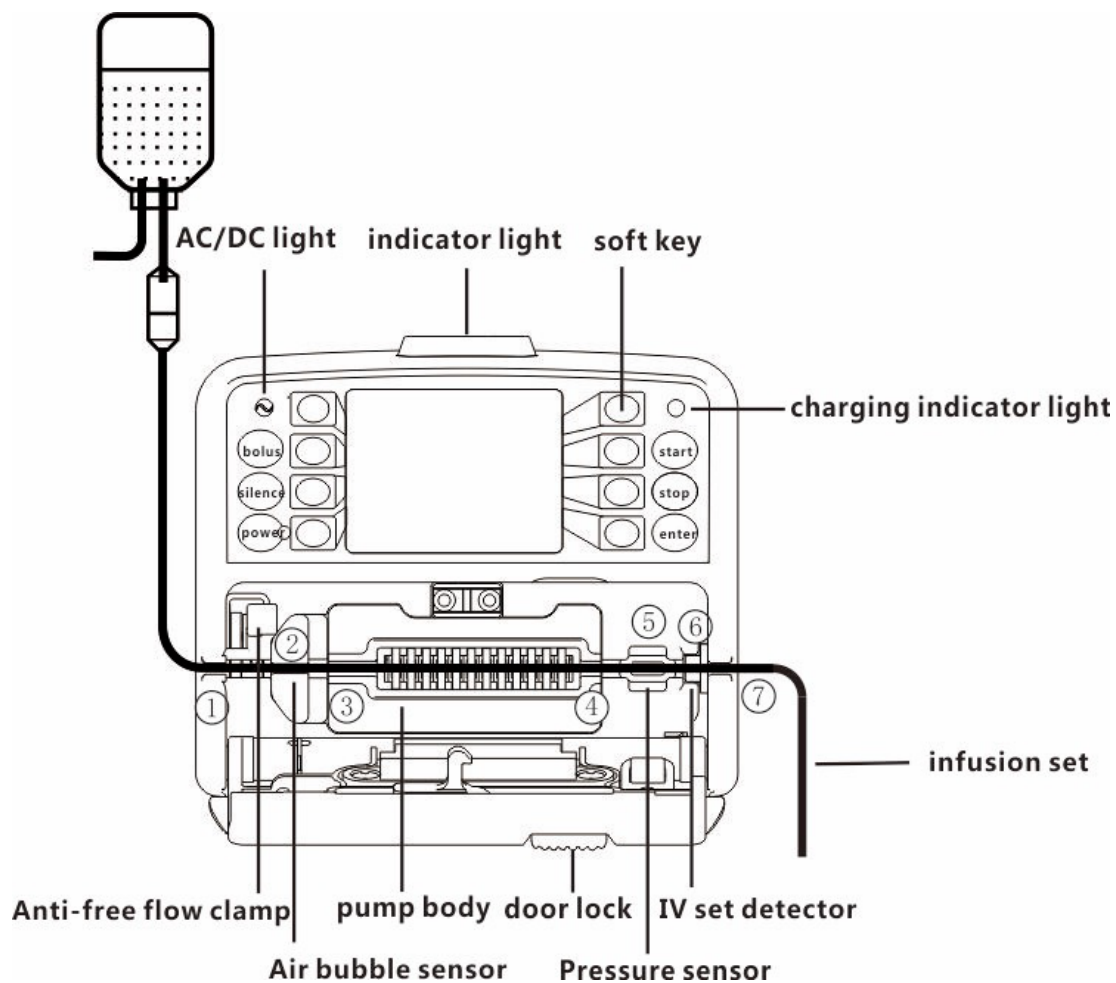
*Our equipment are complying with European and US regulation, AAALAC recommendations.



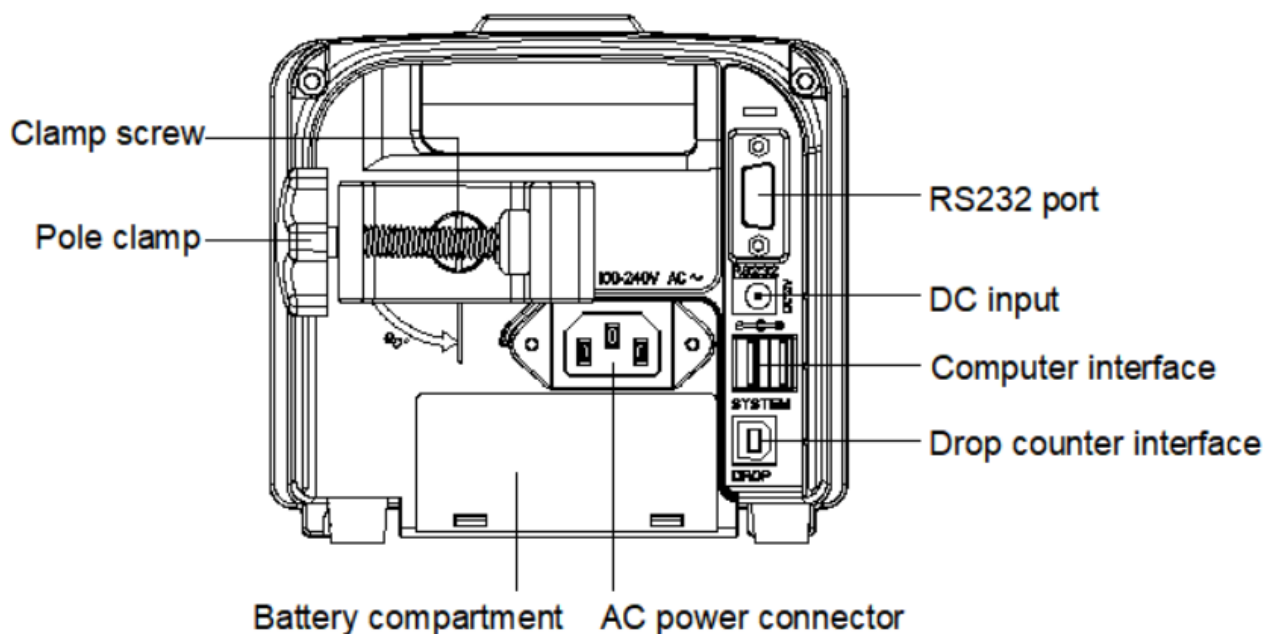


KVO rate	0-10 ml/h, preset by user; default: 1 ml/h
Bolus	Manual Bolus and Auto Bolus: Bolus Rate: 0.1-1200 ml/h, Default: 1000 ml/h VTBI Bolus: 0-9999.99 ml For manual bolus, the VTBI of the bolus is 0 and the bolus time is 0. Micro Bolus: Bolus Rate: 0.1-100 ml/h, Default: 100 ml/h VTBI Bolus: 0-1000 ml
Purge	Purge Rate: 0.1-1200 ml/h Default: 600 ml/h VAP Purge: 0-9999.99 ml
Air bubble detection	Adjustable levels: L1, L2, L3, L4, L5, L6 Default: L1 (level 1, please refer to 8.3.4) Tube type: normal / fine Default: normal tube
Occlusion pressure	1~13 levels (10-130kpa, 1 = lowest level, 13 = highest level) Default: level 8 Unit options: kPa, bar, mm Hg, psi Default unit: kPa
Anti-bolus function	Reduces the unwanted bolus volume injected into the patient after eliminating the cause of occlusion.
RS-232 port (optional)	The RS-232 port allows the user to check the infusion/alarm record in the computer terminal.
Water proof level	IP 24
Alternating current	100 à 240 V 50 / 60Hz
Battery	Lithium polymer 7.4V 1900mAh. Charging time: 10 hours on, 3 hours off. Operating time: more than 5 hours at a rate of 25 ml/h, room temperature 25°C after a full charge.
Energy consumption	35 VA
DC	CC 12 V \pm 1.2 V
Fuse	Low fuse S, 250V 2A
Operating conditions	Ambient temperature: 5°C~40°C Relative humidity: 10-95% (no icing) Air pressure: 86 kPa~106 kPa
Dimensions	145 (W) x 120 (H) x 100 (L, without post clamp) mm
Net weight	≤1,4 kg





BOLUS button	In the "stop" state, press and hold the "bolus" button, the pump starts priming (default priming rate: 600 ml/h). After releasing the finger, the priming stops. During operation, press and hold the "bolus" button, the pump starts bolus infusion (bolus rate preset by the user). Release the finger, the bolus infusion stops and the pump continues the infusion at the initial rate.
SILENCE button	Press this button to mute the alarm
POWER button	Turn the infusion pump on/off. In the "power off" state, press this button until the LCD screen displays, indicating that the pump is on. In the "power on" and "off" state, or in the "alarm" state, press this button for approximately 2 seconds to stop the pump.
START button	In the "stop" state, press this key to start the infusion.
STOP button	Press this key to stop the infusion or clear the alarm light and message
The Enter key	Press this button to confirm/save the newly set parameter
Programmable key	The soft keys have various functions. Pressing the key next to the text displayed on the LCD screen, the text will be highlighted for further setting parameters by pressing the soft keys again.
AC DC indicator light	If this option is enabled, it indicates that there is AC/DC input; if it is off, it indicates that there is no AC/DC input.
LED	An indicator shows whether the pump is operating. If the IV set is properly installed and without air in the line, the indicator light will be green after the door is closed, which also indicates the pump is ready for operation. The green indicator light will flash when the infusion is in progress. If a high-priority alarm occurs during operation, the indicator light should turn red and flash. If a medium-priority alarm occurs during operation, the indicator light should turn yellow and flash. If a low-priority alarm occurs during operation, the indicator light should turn yellow but not flash. Refer to Table I in the Appendix for the alarm classification priority.
Charging indicator light	The indicator light on means that the battery is charging.
Lock	By pressing the door lock, the door opens automatically. Lightly press the door to close the door. A "click" indicates that the door is securely closed.
Détecteur de set IV	It can identify the dedicated IV set or prevent the IV set from being installed in the wrong direction. This function is optional.



Post clamp

Il est utilisé pour fixer la pompe à perfusion sur le support IV.
Desserrez la vis de serrage pour changer la direction de la bride de pôle. (Horizontal ou vertical en option)

Bat compartment Tery

Batterie emplacement. Ouvrez-le par le bas de la machine.

AC power connector

La prise pour la connexion à une source d'alimentation CA.

RS-232 slot

It is used to connect the infusion pump to a standard PC to transfer infusion history documents.
Note: This process must be performed when the machine is not in infusion mode.
This port is interfaced with the infusion management system via a Wi-Fi signal projector (Wi-Fi signal projector is optional).

DC input

It can be connected to an external DC power supply ($12V \pm 1.2V$). You must use the adapter only in accordance with IEC 60601-1 standard.

Computer interface

This socket is for program upgrade

Fall counter interface

This interface can connect to the outdoor drop sensor to detect the drop rate. The drop sensor cannot be exposed to the sun, when using the drop sensor, squeeze the drip chamber to fill it with 1/3 of the liquid. (This function is optional)

