



# ESP-500

Modular double-channel  
syringe pump



INFUSION LINE



# ESP-500

## Modular double-channel syringe pump

- KVO, Bolus and Anti-bolus.
- Drug library
- History records
- Double CPU ensuring safe infusion
- 3 adjustable occlusion levels, dynamically display the pressure
- Panel Lock
- Adjustable buzzer volume (3 levels)
- Automatic syringe size-recognition
- Night mode ensure good rest of patients
- 90° rotation pole clamp convenient for horizontal bar, vertical IV Pole & platform use RS232



**Cod. ESP-500**

Also stackable with the single channel model **ESP-400**

### Technical Features

<b>Applicable syringes</b>	5ml, 10ml, 20ml, 30ml, 50ml, 60ml
<b>Injection rate</b>	5ml: 0.1 ~ 150ml/h 10ml: 0.1 ~ 300ml/h 20ml: 0.1 ~ 600ml/h 30ml: 0.1 ~ 900ml/h 50ml: 0.1 ~ 1500ml/h
<b>Bolus rate</b>	5ml: 0.1 ~ 150ml/h (default 150ml) 10ml: 0.1 ~ 300ml/h (default 300ml) 20ml: 0.1 ~ 600ml/h (default 600ml) 30ml: 0.1 ~ 900ml/h (default 900ml) 50ml: 0.1 ~ 1500ml/h (default 1500ml)
<b>Bolus volume</b>	Accumulate bolus volume display
<b>Purge rate</b>	5ml : 150ml 10ml: 300ml 20ml: 600ml 30ml: 900ml 50ml: 1500ml
<b>Volume to be infused (VTBI)</b>	0.1ml ~ 1000ml
<b>Injection increment</b>	0.1 ml
<b>Accuracy</b>	± 2% (mechanical ± 1%)
<b>KVO rate</b>	0.1 - 2 ml/h adjustable; default value 0.1ml/h
<b>Infusion mode</b>	Intermittent infusion mode, body weight mode, Time mode, Rate mode, Drug library mode
<b>Time mode</b>	Volume limit: 0.1 ~ 999.9ml Pre-set Time: 1min to 99h 99min Remaining time: **h **min
<b>Body weight mode</b>	Drug limit: 0.1~999.9mg, Solution limit: 0.1~999.9ml, Weight: 0.1~300.0kg, Dose: 0.1~9999.9 mg/kg/h, ug/kg/min
<b>Displayed information</b>	Flow rate, volume limit, volume infused, syringe size, pressure value, battery level unit of dosage, AC power indicator, battery charge indicator, bolus rate etc...
<b>Occlusion pressure detection</b>	3 adjustable occlusion pressure settings: low, medium and high

<b>Alarm function</b>	Infusion completion, near completion, Empty, Occlusion, start Reminder, Low battery, Syringe disengaged, incorrect installation of syringe plunger, No AC power supply, low battery, battery exhausted, malfunction etc...
<b>History record</b>	1600 records
<b>Battery</b>	Rechargeable lithium polymer battery, 7.4V, 2100mAh Can operate for more than 3h after fully charged at 25ml/h.
<b>Battery recharge time</b>	10h with power on, 3h with power off
<b>Power consumption</b>	25VA
<b>Classification</b>	Class I, type CF
<b>Waterproof Level</b>	IP×3
<b>Dimensions</b>	30x12.9x13cm (WxDxH)
<b>Weight</b>	≤ 2 kg
<b>Operating conditions</b>	Temperature: 5°C ~ 40°C, relative humidity: 10~95%, Atmosphere pressure: 86 ~ 106kPa
<b>Transport conditions</b>	Temperature -20°C ~ 60°C, relative humidity: 10~95%, Atmosphere pressure: 50 ~ 106kPa
<b>Storage conditions</b>	Temperature -20°C ~ 45°C, relative humidity: 10~95%, Atmosphere pressure: 50 ~ 106kPa



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