

**mindray**

## **BeneFusion SP1**

Syringe pump



## Friendliness

- "One hand operation" and intuitive keypad
- Compact and lightweight design for easy carrying
- Long runtime battery, suitable for emergency and patient transfer

## Safety

- High accuracy:  $\leq \pm 2\%$
- Fast start function against start delay due to friction
- Dynamic pressure detection, Anti-bolus
- IP34 water and dust protection

## Connectivity

- Ambulance support
- WiFi connection available
- Dock support



Specifications and Functions	
Dimension(L x W x H)	336 x 132 x 110 (mm)
Syringe size	5, 10, 20, 30, 50/60 ml
Infusion mode	Rate Mode
Flow rate range	0.1-1500ml/h
Accumulated volume	0.1~9999 ml, increment is 0.1 ml
VTBI	0.1~9999 ml, increment is 0.1 ml
Increment	0.1~999.9 ml/h, increment is 0.1 ml/h; 1000~1500 ml/h, increment is 1 ml/h
Accuracy	$\leq \pm 2\%$
KVO rate	0.5 ml/h, unadjustable
Bolus	0.10-1500ml/h
Purge rate	150-800ml/h
Occlusion	300/525/900 mmHg
Screen	2.5" LCD monochrome screen, 132 x 32 Pixels
Titration	Yes
Keypad lock	Yes
Pause	Yes
Automatic recognition of syringe size	Yes
Self-test system	Yes
Weight	< 1.8 kg (without clamp)
Dock	Supported
Handle	Included
Mouting type	Standard: Vertical Pole; Optional: Horizontal Pole
Alarm volume	1-8 levels, selectable
Alarm	
	Occlusion, Battery Empty, VTBI Done, KVO Finish, Syringe Empty, Syringe Disengaged, System Error, System abnormal, Reminder, Battery Low, Syringe Nearly Empty, VTBI Near Done, Standby Time Expired, AC Power Disconnection, Syringe not inserted and No communication
Power supply and Safety Requirement	
AC power	100-240V (50/60Hz)
Battery type	Lithium
Battery operation time	Standard(1 battery): $\geq 6$ hours@5ml/h; Optional(2 batteries): $\geq 12$ hours@5ml/h
Charging time	Standard(1 battery): $\leq 5$ hours; Optional(2 batteries): $\leq 10$ hours
Classification	CF, Class I
IP Grade	IP34
Temperature	0~40°C for operating, -40~70°C for storage
Humidity	15~95% for operating, 10~95% for storage
Air pressure	57~106kPa for operating, 50~106kPa for storage
Connectivity	
Data interface	Supported, RS232
Wireless	WiFi (optional)
Nurse Call	Supported
DC input	Supported
Ambulance	Supported, meet EN-1789 requirement