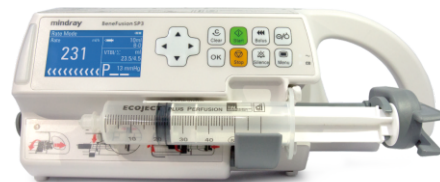**Friendliness**

- "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: ±2%, satisfying neonatal use
- Fast start function against start delay due to friction
- Dynamic pressure detection, Anti-bolus, Last parameter configuration, Drug Library, History Events
- IP24 water and dust protection, support cleaning with water

Connectivity

- Ambulance support
- WiFi connection available
- Dock support

BeneFusion SP3 Syringe pump

mindray

healthcare within reach

BeneFusion SP3

Specifications and functions	
Dimension	330 x 126 x 110mm
Syringe size	5, 10, 20, 30, 50/60ml
Infusion mode	Rate mode, Time mode, Body weight Mode
Flow rate range	5ml syringe: (0.1~150) ml/h; 10ml syringe: (0.1~300) ml/h; 20ml syringe: (0.1~600) ml/h 30ml syringe: (0.1~900) ml/h; 50ml/60ml syringe: (0.1~1500) ml/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	Flow rate≥1 ml/h: Accuracy ≤ ±2%; Flow rate ＜ 1 ml/h: Accuracy ≤ ±3%
KVO rate	0.1-5.0 ml/h, adjustable
Bolus/Purge rate	0.10-1500ml/h (depending on syringe size)
Occlusion	Low 300±75 mmHg (40kPa) Medium 525±75 mmHg (70kPa) High 900±135 mmHg (120 kPa)
Screen	3.0" LCD monochrome screen, 240 x 128 pixels
Titration	Yes
Keypad lock	Yes
Pause	Yes
Automatic recognition of syringe size	Yes
Self-test system	Yes
Last parameter configuration	Yes
Drug library	200 drugs
History record	1500 events
Weight	<1.8kg (including clamp)
Dock	Supported
Handle	Included
Mounting type	Standard: Vertical Pole; Optional: Horizontal Pole
Alarm Volume	1-8 levels selectable
Preset syringe brand	8, include B-D, B.Braun, Terumo, and 5 Chinese brand; local brand configuration supported
Language	11, Chinese, English, French, Russian, Turkish, Portuguese, Polish, Bulgarian, Czech, Romanian
Alarm	
	VTBI done, VTBI near done, KVO finish, syringe empty, syringe near empty, syringe disengaged, occlusion, system error, system abnormal, battery low, battery empty, reminder, AC power disconnection, standby
Safety Requirement	
AC power	100-240V (50/60Hz)
Battery type	Lithium
Battery operation time	Standard: 6 hours@5ml/h; Optional: 12 hours@5ml/h
Charging time	<5hours
Classification	CF, Class I
IP Grade	IP24
Temperature	0~40ºC for operating, -40~70ºC for storage
Humidity	15~95% for operating, 10~95% for storage
Air pressure	57~106kPa for operating, 50~106kPa for storage
Interface	
Data interface	Supported, RS232
Wireless	WiFi (optional)
Nurse Call	Supported
DC input	Supported
Ambulance	Supported, meet EN-1789 requirement

Management System
EN ISO 13485:2012
www.tuv.com
ID 0000048164

CE 0197

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