


BeneFusion nDS

Infusion Supervision System

Data Sheet



Size		Use/ Low Battery/ Battery Error/ LAN IP Address Conflict/WLAN IP Address Conflict/ CMS/eGW Disconnected	
1 controller and 4 slots	≤ 270x 173 x395 mm		
1 controller and 2 slots	≤ 270 x 173 x 245 mm		
Extension 4 slots	≤ 270 x 173 x 335 mm		
Weight		Connectivity HL7 protocol Communication USB	support connection with CIS/HIS wired/wireless support drug library import, patient information loading, patient data export, history record export, barcode reader connection RS232; nurse call connector; BeneLink connector Synergy with patient monitor Connect with BeneFusion nCS infusion central station Connect with BeneVision Central Monitoring System (CMS)
1 controller and 4 slots	≤ 3.9 kg		
1 controller and 2 slots	≤ 2.9 kg		
Extension 4 slots	≤ 3.0 kg	Multifunctional connector Integration	
Display			
Screen	3"OLED, ≥ 256x64 pixels		
Information	bed number, patient name, battery status, network status, total volume of the 24h infusion of the pump	Other Night mode History record Mounting type Pole clamp Programmable mode Maintenance Classification	On/Off, start time, end time and sound volume adjustable up to 2500 horizontal, vertical Horizontal: Diameter range 10 × 25 mm Vertical: Diameter range 15-40mm One pole clamp per shelf module Support automatic multi-channel relay Vertical: Diameter range 15-40mm support 2-24 pumps tool-free assembly support batch calibration, drug library import, software upgrade Type CF, class I, IP33
Power supply			
Battery type	Lithium-ion, 2500mAh		
Operating time	At least 2 hours		
Recharging time	≤ 6 hour		
AC power	100-240V~, 50/60Hz, 8-3.4A		
Environment			
Temperature	5-40°C for operating, -30-70°C for storage		
Humidity	15-95% for operating, 10-95% for storage		
Air pressure	57.0-107.4kPa for operating 16.0-107.4kPa for storage		
Alarms			
Type	audible and visual alarm		
2 Levels	High: Battery Depleted/ System Error Low: Slave Controller Abnormal/ Battery in		

Mindray Building, Keji 12th Road South, High-tech Industrial Park, Nanshan, Shenzhen 518057, P.R. China Tel: +86 755 8188 8998 Fax: +86 755 26582680 E-mail: intl-market@mindray.com www.mindray.com	mindray Healthcare with care registered trademarks or trademarks owned by Shenzhen Mindray Bio-medical Electronics Co., LTD © 2020 Shenzhen Mindray Bio-medical Electronics Co., Ltd. All rights reserved. Specifications subject to changes without prior notice. P/N: ENG-BeneFusion nDS Datasheet-210285x2P-20200608
	

BeneFusion nSP/nVP/nDS

Infusion System

Smart touch, Safe medication





7" full-size touchscreen
bringing a brand new user experience



See-through window design
easy to clean and observe syringe status



Intuitive UI design
80% operation can be done on the main interface.



Premium material
supports up to 49 disinfectants

Touch the flexibility

Extraordinary touch experience

BeneFusion n Series features a full-size color touchscreen that comes with an intuitive UI to provide an extraordinary interactive experience as never before.

- 7-inch HD capacitive touchscreen makes the interaction as smooth as using smart devices in your daily life.
- The intuitive UI facilitates an easy operation by presenting critical parameters with an elegant layout.



All in one

BeneFusion nSP and nVP are versatile enough to integrate all functions to satisfy a variety of clinical purposes.



Flexible docking solution

BeneFusion nDS is flexible enough to provide a comprehensive solution for a variety of infusion scenarios.

- Tool-free modular design enables easier expansion of slots from 2 to 24 pumps
- BeneFusion tDS transfer docking station enables simple and efficient patient transfers

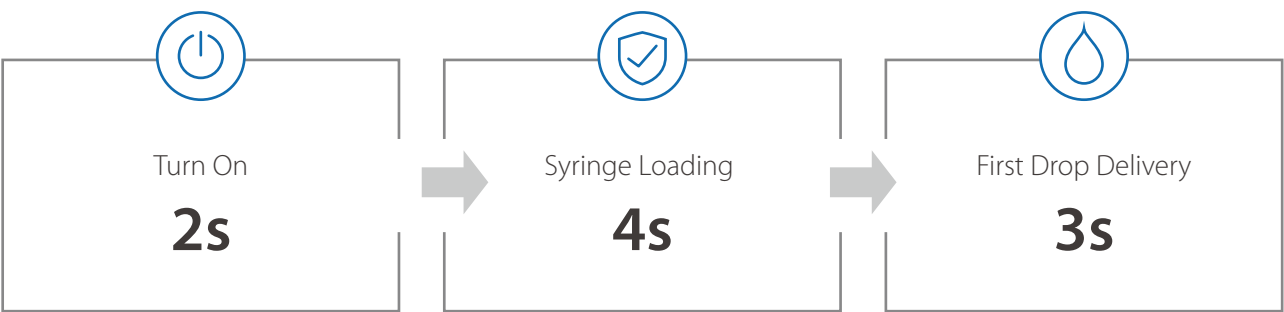


Dedicated to safety

Innovative technologies ensures safe medication

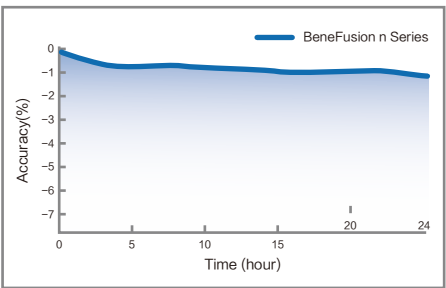
SmartRapid

SmartRapid ensures timely infusion by significantly shortening the start-up time, from turning on the pump to delivering the first drop of medication.



Precise and consistent performance

- Rivalled accuracy: nSP $\pm 1.8\%$; nVP $\leq \pm 5\%$
- Flow rate initiates as precise as 0.01ml/h
- Compatible syringes as small as 1ml



SmartAIR

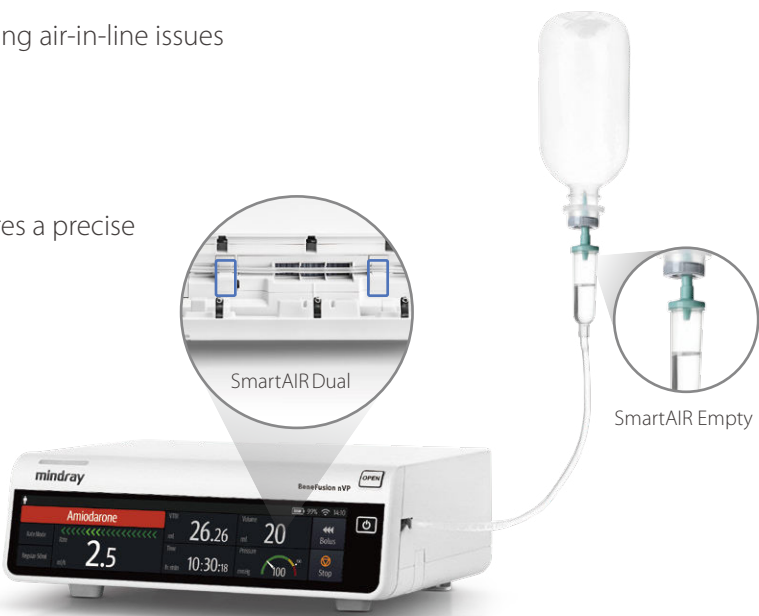
SmartAIR enhances the overall safety by monitoring air-in-line issues when administering infusion to a patient.

SmartAIRDual

Dual-sensor design of air bubble detection ensures a precise air-in-line alarm.

SmartAIREmpty

The innovative mechanism of empty container detection ensures timely awareness of infusion completion without any accessory.



One-handed plug and play

Smooth and easy slot-in loading of pumps into the docking station.

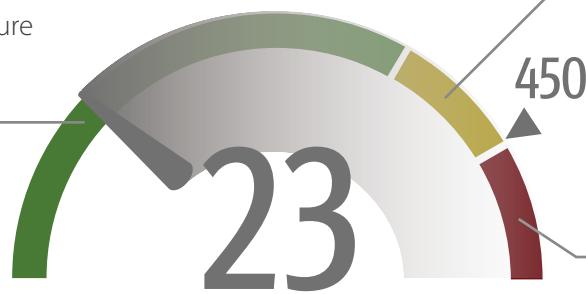


Automatic multi-channel relay

Circular and customized relay together guarantee a stable drug-administering process.

Dynamic Pressure System (DPS)

Speedometer style indicator with numerical pressure to monitor the in-line pressure trend just with a glance.

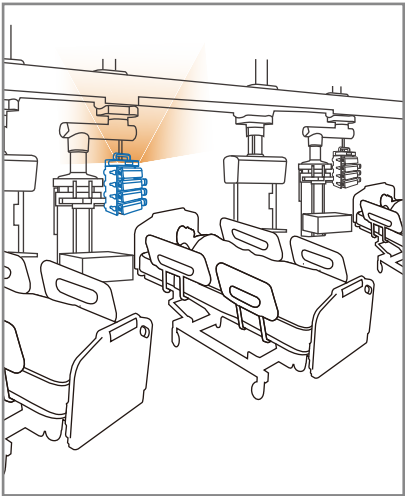


Alert with a visual message about the possible occlusion before interrupting the infusion.

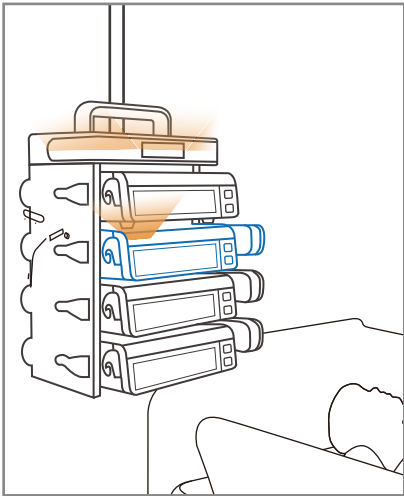
Auto-attempting mechanism enables infusion resume as early as possible to ensure continuous infusion.

Guided Alarm Management

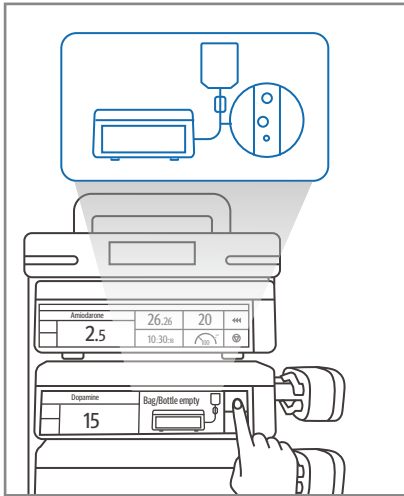
The highly visible alarm management enables users to fast locate and solve the problem.



Fast location of the bedside alarm with 270° visible alarm light on the BeneFusion nDS from a distance.



Fast location of the pump with an audible and visual alarm on BeneFusion nSP/nVP at bedside.



Fast location of the problem with an instructional animation displayed on the pump to aid problem resolution



Managing drugs safely throughout the infusion

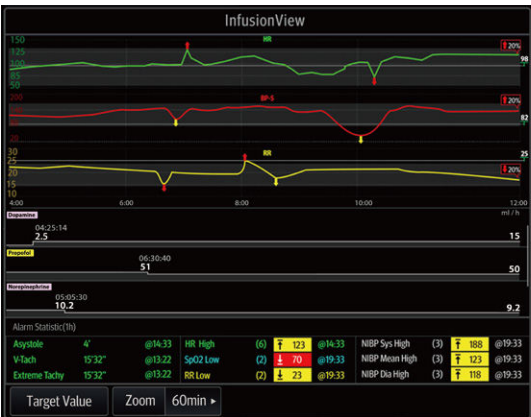
Color-coding system

- The color coding of drug name assists users to easily select and verify the correct drug.
- SafeDose™ Info software enables programming infusion parameters automatically to enhance efficiency.



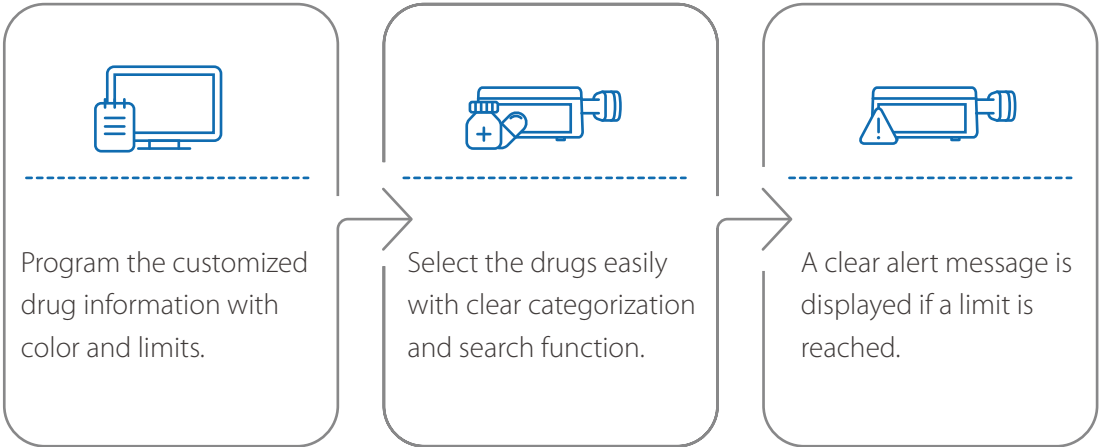
InfusionView

- Vital sign trend and alarm statistics align with the infusion information to provide a comprehensive understanding of a patient's condition.
- Guides users with the appropriate dose of drug when adjusting the infusion treatment.
- Assists users to optimize with more precise prescription by reviewing previous treatment up to 24h.



SafeDose™ DERS

The SafeDose™ DERS helps to reduce drug errors by preventing users from exceeding pre-set hard limits, and by requiring confirmation to override soft limits.



Easy maintenance

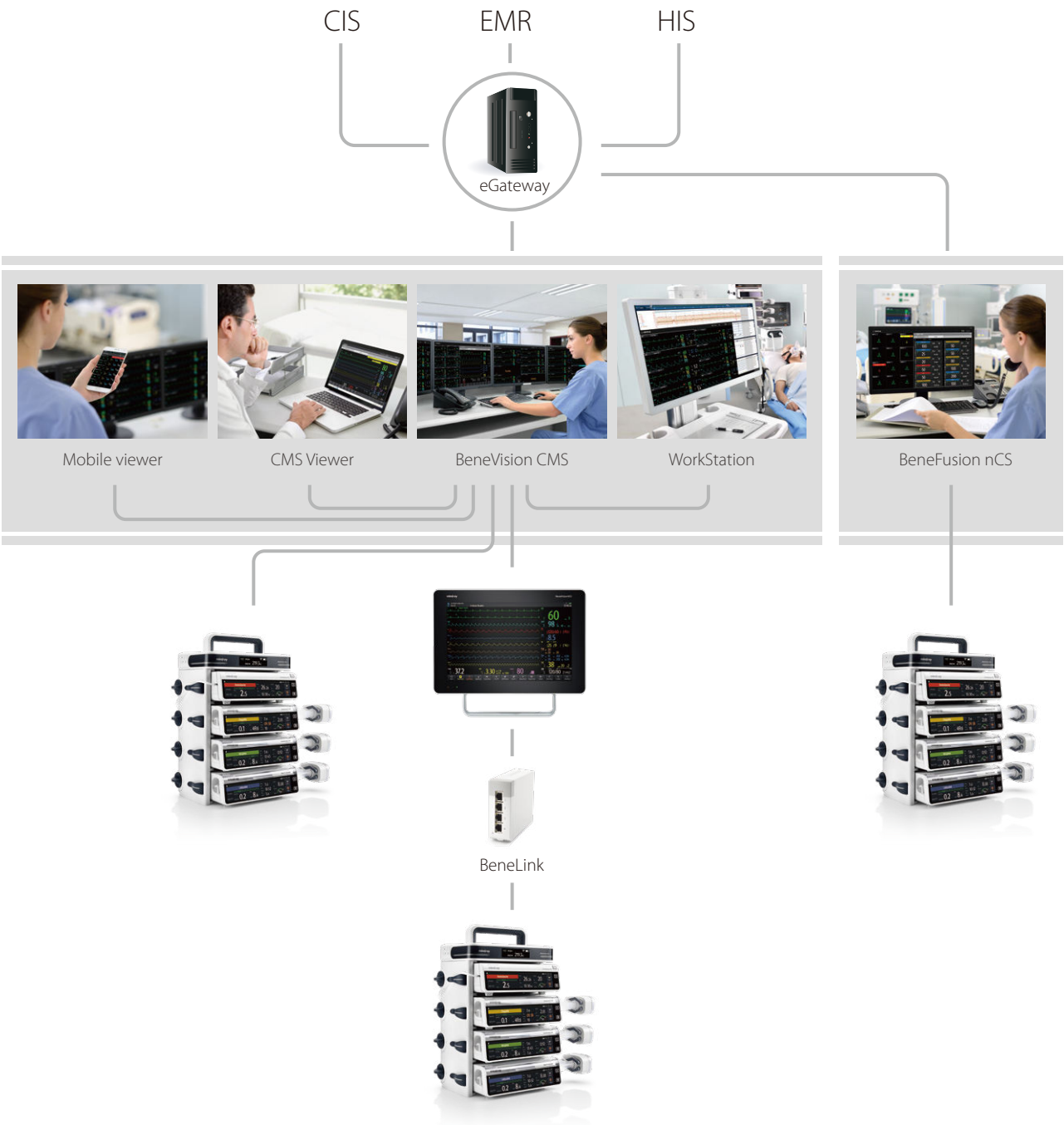
- Manufacturing consistency establishes the foundation for easy maintenance
- Save plenty of time for BMEs with pre-configured consumables
- Simplify set calibration by uploading and distributing data easily



Connected synergy

Centralized data management

- Able to monitor up to 72 nDS simultaneously
- Able to obtain infusion and alarm information anywhere at anytime
- Access to HIS/CIS/EMR through HL7 protocol



Integrated central monitoring

BeneVision CMS offers one-stop monitoring of all patients' vital sign and infusion treatment details, providing comprehensive information for clinical workers to improve the quality of patient care.



Closed-loop medication management

Assists clinical staff to reduce medication errors with barcode scanner by aligning prescription automatically, enhancing the work-flow efficiency.

