



BD neXus V700 Infusion Pump

BD neXus is our next generation infusion platform and a foundation to BD's connected medication management portfolio.

BD neXus V700 volumetric pump operates with dedicated administration sets and includes pump accessories

BD Guardrails™ protected

BD neXus V700 includes Guardrails™ our well-established and clinically proven dose error reduction software (DERS) helps to prevent intravenous (IV) dosing medication errors before they reach the patient. For enhanced safety, the screen background displays orange when the administration is protected by BD Guardrails™.

User-friendly touchscreen and intuitive interface

With a user-friendly medical grade colour touchscreen and an intuitive interface using fast track data entry you are able to easily populate the parameters for your infusion data. While infusing, you can easily visualise clinically important infusion parameters.

Supports early detection in change of pressure

- Pressure Rise: Occlusion prealarm notification when pump detects an increase in pressure prior to the occlusion alarm set value.

Hand over mode

With increasing time pressure, BD neXus can help you improve workflow efficiency with hand over mode. Its unique infusion Workstation features a built-in dose-rate hand over mode. The screen background of the pumps displays green for improved visual recognition.

Infusion modes

In addition to hand over mode ml/hr, Guardrails™, loading dose, multistep and total parenteral nutrition (TPN) modes are present for different clinical needs.

Flexible bedside organisation and transport

The design of the syringe and volumetric pumps allows for modular stacking for more flexible bedside organisation and transport.

The light and compact Workstation can stack up to 12 pumps in any combination possible.



Modular combination



BD Guardrails™



Hand over mode



Specifications V700

Infusion and prime rate range

0.1ml/h to 2000 ml/h.

Volume to be infused (VTBI)

0.1–9999.99 ml (minimum increment: 0.01 ml)

Keep vein open (KVO) infusion rate

0.1–30ml/h (minimum increment: 0.01ml/h)

Infusion accuracy

Infusion Accuracy is $\pm 5\%$, achieved under the infusion rate $\geq 1\text{ml/h}$.

Bolus specifications

Bolus Rate: 0.1-2000 ml/h

Bolus VTBI: 0.1-50 ml (minimum increment: 0.01 ml)

Free flow protection

Anti free flow clamp included in all BD neXus sets

Air in line detection

Single Bubble

- Air bubble alarm accuracy: $\pm 15\ \mu\text{l}$ or $\pm 20\%$ (whichever is greater).
- 8 detection sensitivity levels: 15, 25, 50, 100, 200, 300, 500, and 800 (μl)

Total Bubbles

- Bubble Level: 100 $\mu\text{l}/15\text{min}$, 200 $\mu\text{l}/15\text{min}$, 400 $\mu\text{l}/15\text{min}$, 500 $\mu\text{l}/15\text{min}$, 600 $\mu\text{l}/15\text{min}$, 800 $\mu\text{l}/15\text{min}$, and 1000 $\mu\text{l}/15\text{min}$

Occlusion Levels

Downstream occlusion: 50 - 1125 mmHg, 15 occlusion levels available

Upstream occlusion: Support upstream occlusion detection

Alarm indicators and conditions

Power Indicator: yellow or green

Alarm indicator: yellow, green or red

AC Power Fail	Air In Line	Attention
Battery Empty	Battery Low	Downstream Occlusion
Drop Sensor Disconnect	Hand Over Failed	KVO End
Step n Completed	Near End Of Infusion	No Battery
No Flow	Pressure Rise Alarm	Standby End
Titration Not Confirmed	Too Few Drops	Too Many Drops
Upstream Occlusion	VTBI Done (Continue)	VTBI Done (KVO)
VTBI Done (STOP)	ERR XXX	

Dimensions and weight

214 mm (W) x 75mm (H) x 142mm (D)

Approximately 1.4kg (including the battery)

Display Screen

3-inch LCD with a resistive touch screen

Resolution: 480x320 pixels.

Mechanism

Peristaltic

Event log

A maximum of 20,000 event logs can be stored by the pump for playback.

Battery specifications

- Built-in lithium battery: 10.8V, 3000mAh
- Charge time: approximately 4 hours (the pump is powered off during the charge).
- Charge mode: The battery can be charged when AC input is available.

Infusion Rate	Continuous Operation time
25 ml/h	10 hours
125 ml/h	8 hours
2000 ml/h	5 hours

Power requirements

AC power supply: 100-240V AC, 50/60Hz

Input power: 45VA

Profiles

Up to 30 Profiles

Drug Setups

Up to 3,000 drug setups; maximum 1,000 per profile

Additional specifications

IP33 –

Protected against solid foreign objects of 2.5 mm and greater, protected against spraying water.

IEC 60601-1; IEC 60601-2-24; IEC60601-1-8 ; IEC 60601-1-2

Service life:

Ten years with routine maintenance and servicing every two years.