BD neXus S700 Syringe Pump

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

BD neXus S700 syringe pump is compatible with a wide range of syringe brands and sizes.

BD Guardrails™ protected

BD neXus S700 includes BD 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.

- Pressure Fall: prealarm notification when pump detects a sudden fall in pressure.

Hand over mode

With increasing time pressure, BD neXus can help you improve workflow efficiency with a hand over mode. Its unique infusion Workstation features a built-in 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 assembling and modular combination

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

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

 BD Guardrails™

 Modular combination

 Hand over mode

 Full range syringe compatibility

 BD

Specifications S700

Infusion rate range

Infusion and Purge Rate	Syringe size
0.1ml/h to 60ml/h	2ml syringes
0.1ml/h to 90ml/h	2.5/3ml syringes
0.1ml/h to 150ml/h	5ml syringes
0.1ml/h to 600ml/h	10ml syringes
0.1ml/h to 1000ml/h	20ml syringes
0.1ml/h to 1200ml/h	30ml syringes
0.1ml/h to 2200ml/h	50/60ml syringes

Volume to be infused (VTBI)

0.1–9999.99ml (minimum increment: 0.01ml)

Bolus rate

Bolus Rate	Syringe size
0.1ml/h to 60ml/h	2ml syringes
0.1ml/h to 90ml/h	2.5/3ml syringes
0.1ml/h to 150ml/h	5ml syringes
0.1ml/h to 600ml/h	10ml syringes
0.1ml/h to 1000ml/h	20ml syringes
0.1ml/h to 1200ml/h	30ml syringes
0.1ml/h to 2200ml/h	50/60ml syringes

Keep vein open (KVO) infusion rate

0.1–5ml/h (minimum increment: 0.01ml/h)

Infusion accuracy

Infusion Accuracy is ±2%, achieved under the infusion rate ≥1ml/h.

Occlusion Levels

2ml, 3ml, 5ml, 10ml, 20ml, or 30ml syringe: 50–1125mmHg; 15 levels are available for selection.

50/60ml syringe: 50–975mmHg; 13 levels are available for selection.

Dimensions and weight

258 (W) x 75 (H) x 152 mm (D)

Approximately 1.7kg (including battery).

Display Screen

3.2" LCD with a resistive touch screen

Resolution: 480×320 pixels

Alarm indicators and conditions

Power indicator: yellow or green

Alarm indicator: yellow, green or red

AC Power Fail	Attention	Battery Empty
Battery Low	Check Syringe Clamp	Check Syringe Plunger
Downstream Occlusion	Drive Head Position ERR	ERR XXX
Hand Over Failed	KVO End	Near End Of Infusion
No Battery	Pressure Fall Alarm	Pressure Rise Alarm
Standby End	Step *n* Completed	Syringe Empty
Syringe Near Empty	Titration Not Confirmed	VTBI Done (Continue)
VTBI Done (KVO)	VTBI Done (STOP).	Syringe Install Error

Battery specifications

- Built-in lithium battery: 10.8V, 3000mAh
- Continuous operation duration approximately 10 hours
- Charge time: approximately 4 hours (the pump is powered off during the charge).

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

Event log

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

Additional specifications

IP33 – Protected against solid foreign objects of 2.5mm and greater, protected against spraying water.
IEC 60601-1; IEC 60601-2-24; IEC60601-1-8 ; IEC 60601-1-2

Service Life:

10 years with routine maintenance and servicing every two years.

BD