

# Technical Specifications

**3D bioprinting technology** Temperature controlled, syringe-based extrusion

**Printhead volume** 2.5 mL\*

**Theoretical volume unit step** 0.1  $\mu$ L

**Printhead dispensed volume CV (Coefficient of Variation)** < 10% @ 10  $\mu$ L for water

**Printhead temperature range** 0°C - RT  $\pm$  1°C

**Printhead flow rate range** 1 - 50  $\mu$ L/sec

**Build surface compatibility** Petri dishes and multi-well plates (6 to 384 wells)

**Build volume** 130 mm x 80 mm x 50 mm

**Printbed temperature range** RT - 65 °C

**Photocuring system** 405 nm LED

**Calibration options** Manual and Automatic

<b>Linear positioning precision</b>	XY: 10 µm, Z: 2.5 µm
<b>Software</b>	DNA Studio Core
<b>Supported file formats</b>	.gcode, .stl, .obj, .amf
<b>Desktop application compatibility</b>	Windows 11 and Windows 10 V20H2 onwards
<b>Connectivity</b>	USB, SD-card
<b>Operating temperature range</b>	15 - 30 °C
<b>Power supply</b>	Input: 100-240VAC, 50/60Hz, 2.0A Output: 24VDC, 6.67A, 160W
<b>Outer dimensions (D x W x H)</b>	325 mm x 370 mm x 380 mm
<b>Weight</b>	15 kg

\*BD Syringe catalogue #309658