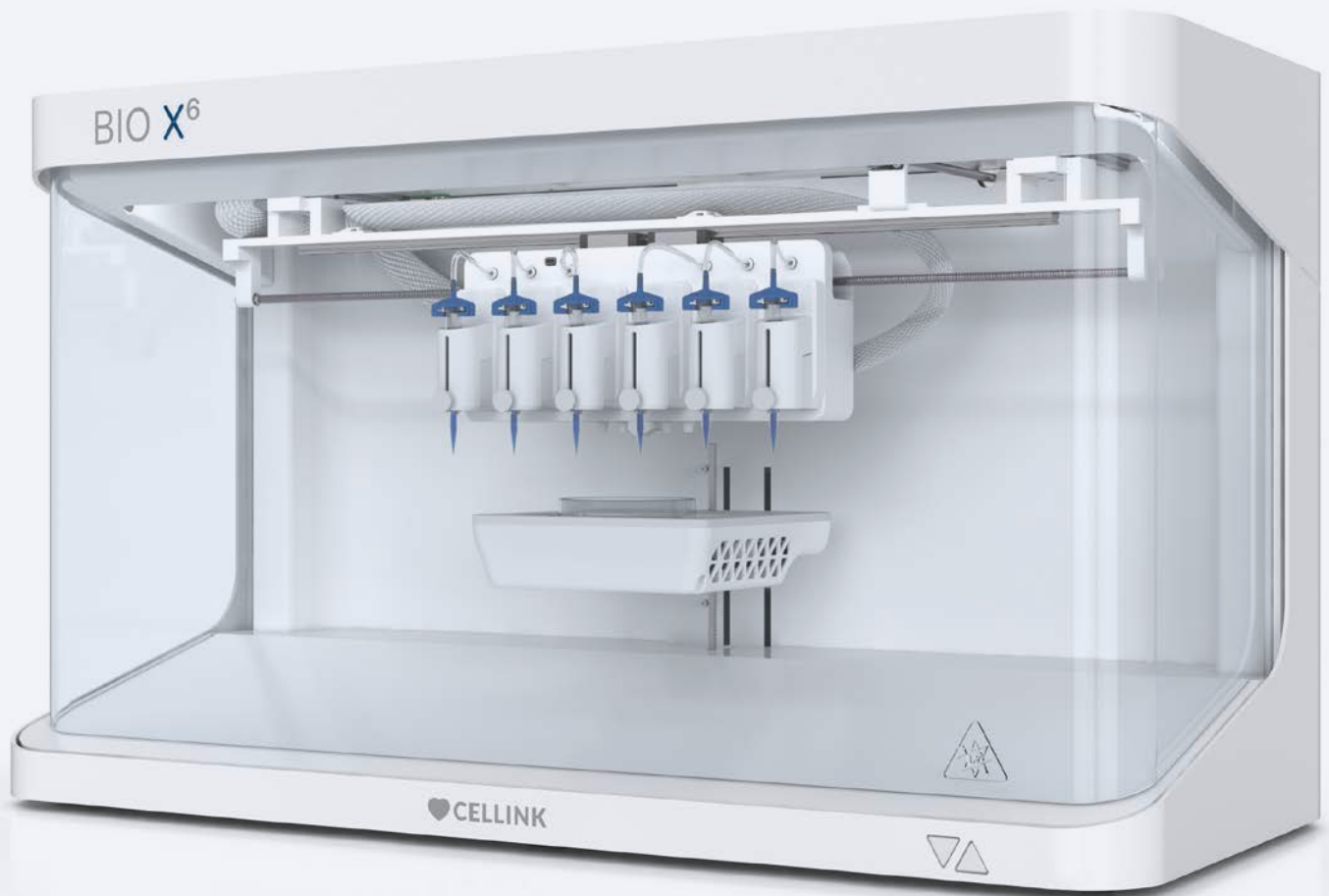
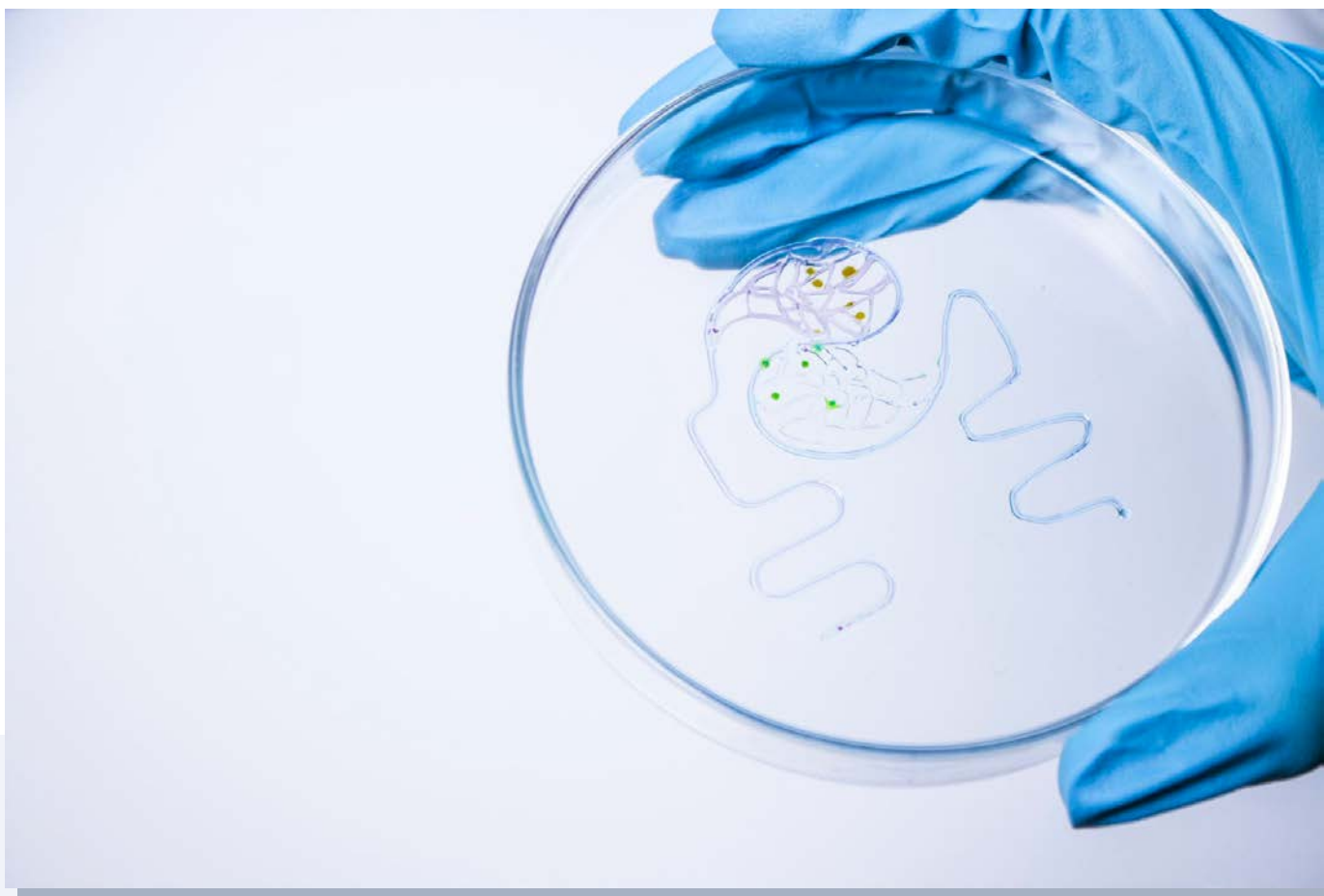


BIO X6

BIOPRINTING REIMAGINED







About CELLINK

As the premier bioconvergence company, CELLINK is creating the future of medicine by providing biomedical technologies, products and services to life science researchers around the world. Whether you are developing tumor models, exploring stem cell pluripotency or organ regeneration our Bioprinting division has you covered. Here, we present the revolutionary BIO X6, a cutting edge 3D bioprinter designed to push the boundaries of your research and create the future of medicine.



Clean chamber



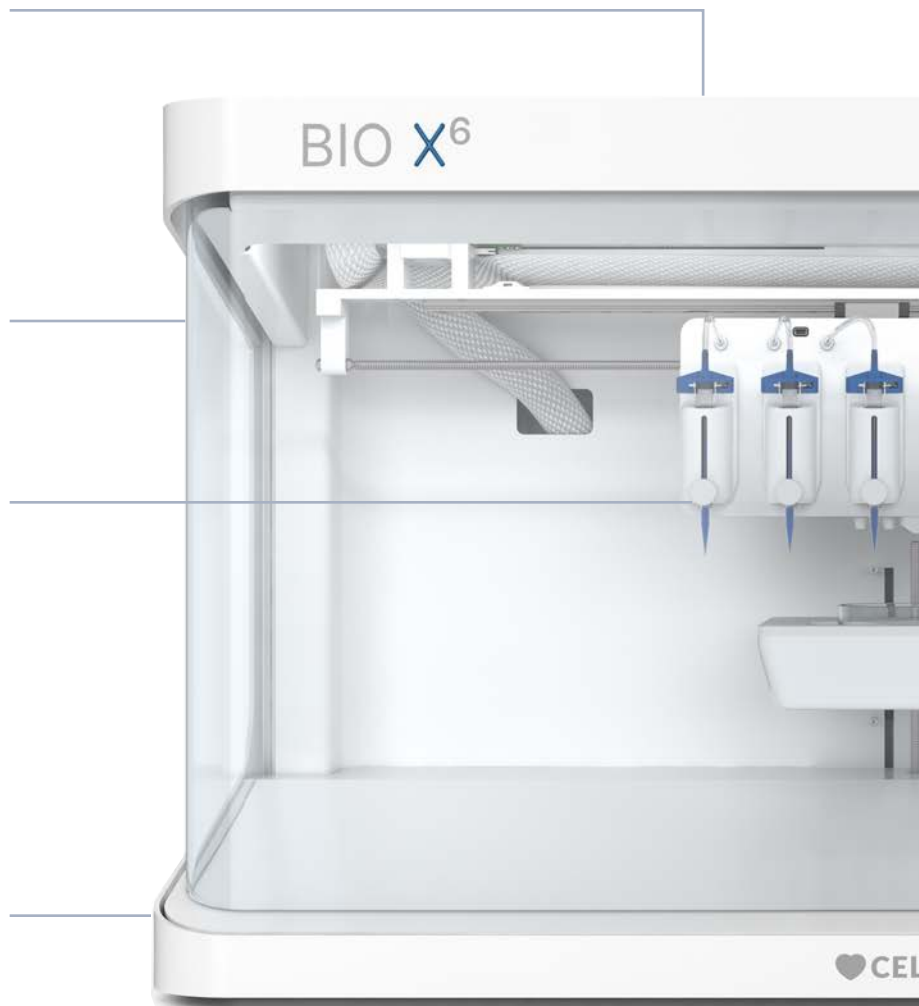
Temperature control

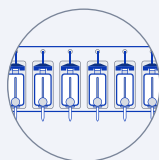
Clean chamber technology powered by dual HEPA filters

Updated print box design and motors

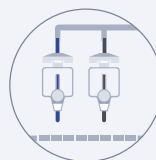
Choose up to **6 modular** intelligent printheads

Dual pressure settings to enable multiple material and **coaxial printing**





6 printheads



Dual pressure



4 **UV** modules (365 nm, 405 nm, 485 nm, 520 nm)

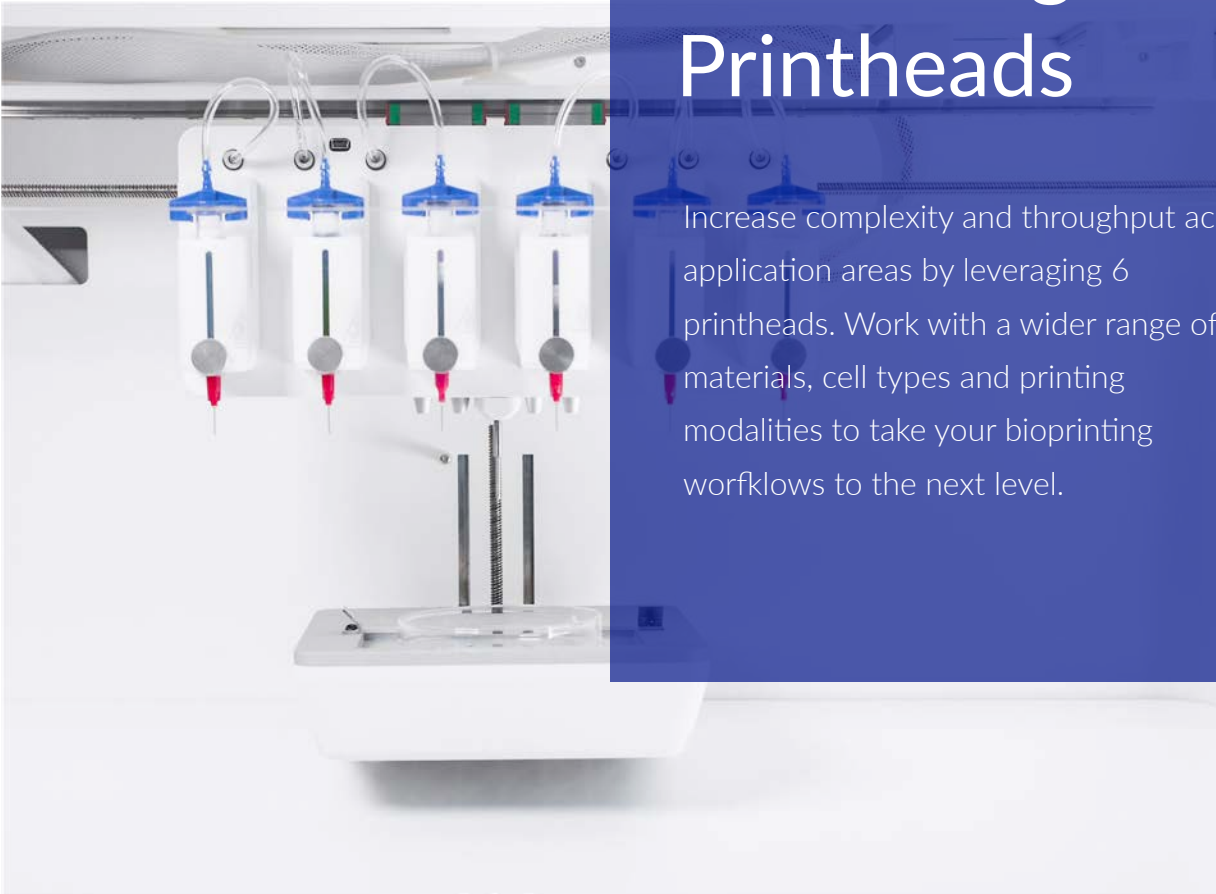
Vertical motorized door to maintain sterility

Temperature controlled printbed from **4°C to 60°C**

Contactless nozzle calibration

Oil-free internal compressor capable of up to **200 kPa**

Intelligent Interchangeable Printheads



Increase complexity and throughput across application areas by leveraging 6 printheads. Work with a wider range of materials, cell types and printing modalities to take your bioprinting workflows to the next level.



Pneumatic Printhead | Temp: RT - 65 ° C

The pneumatic printhead is air pressure controlled and capable of extruding a wide range of high and low viscosity materials. It is available in both 3 mL and 10 mL.

Thermoplastic Printhead | Temp: RT - 250 ° C

Print with synthetic polymers like PCL, PLA and PLGA for increased biomimicry and complexity.



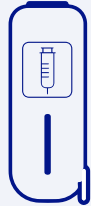


Temperature-Controlled Printhead | Temp: 4 ° C - 65 ° C

This printhead makes it possible to print collagen-based bioinks and other bioinks that require a cooled temperature for extrusion.

Syringe Pump Printhead

Enables you to have better control of the bioink extrusion process by controlling the flow rate and deposited volume, no matter the viscosity.



Electromagnetic Droplet Printhead | Temp: 65 ° C

The inkjet technology allows for a high printing speed with precision. It can print a wide range of low and medium viscosity bioinks, combined with heating control.

Photo-curing Tool Head

If the integrated photocuring modules aren't what you seek, the photocuring toolhead can be attached to have better control over the crosslinking area, particularly when bioprinting in 96 wellplates.



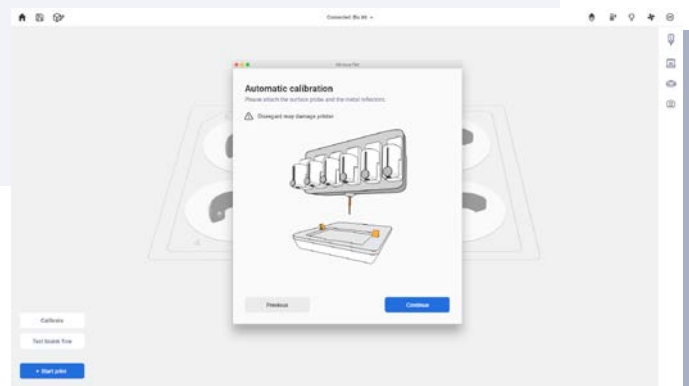
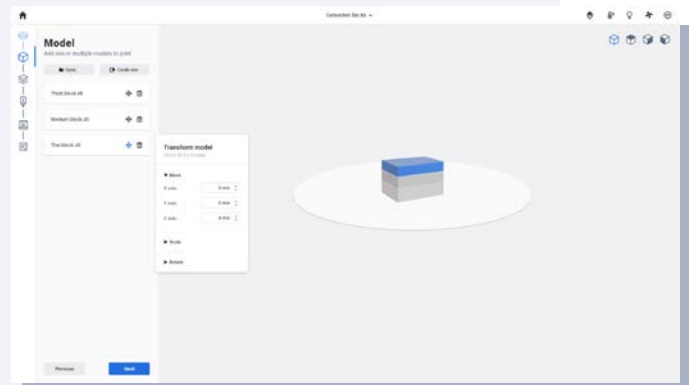
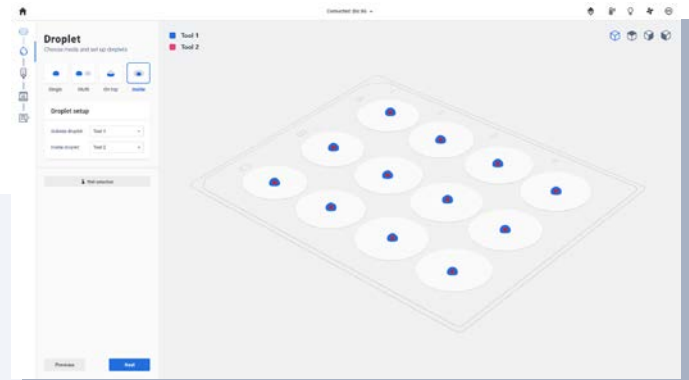
HD Camera Tool Head

An HD camera tool to give high-precision video feedback. It is also a good way of keeping track of the printing process to ensure quality.

DNA Studio – the most powerful bioprinting software

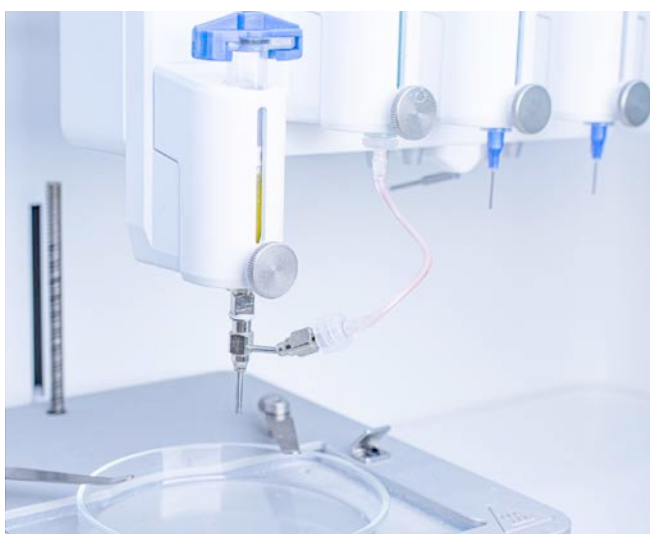
More features to leverage, easier to use

With a wireless tablet interface the BIO X6 comes with the revitalized DNA studio onboard. With advanced features like multiple STL files, contactless autocalibration, droplet in droplet printing, custom material profiles and easy layer switching the BIO X6 lowers the barriers to advanced bioprinting.



Push the boundaries with Coaxial printing

With independent pressure regulators coaxial printing can be enabled with just the tap of a finger. Promote vascularization by printing perfusable channels with a coaxial nozzle.



Strengthen you workflows across key application areas

Regenerative Medicine



Whether you are bioprinting mini livers or fullscale skin models the BIO X6 is the premier solution for regenerative medicine. Emphasizing cellular viability, the BIO X6 was designed to be the pinnacle of sterility and cell friendly printing.

Cancer Research



With 6 printheads easily construct tumoroids in a high throughput manner for comprehensive work on cancer biology.

Drug Discovery



Effortlessly create robust 3D cell and co-culture models to be treated with drugs for downstream analysis.

Material Science



Develop the next breakthrough in material research through effortless printing and multiple cross-linking modalities.

Food production



With larger print volumes possible take food production to the next level. See what types of constructs can be created as part of this paradigm shift.

Printing with CELLINK

All your biomaterial needs in one place

At CELLINK we are a one stop shop for all your bioprinting needs. Select from a wide range of biomaterials, from building blocks for bioink development or tissue specific bioinks. As a leader in bioprinting, we understand your material needs may vary depending on your research. We work tirelessly to provide end to end biomaterial solutions at publication quality. We hand pick every vendor and rigorously quality check our raw materials to ensure issue free printing and the highest possible cell viability.





The best support in the industry

CELLINK's global team of applications specialists are ready to provide support when you need it. With multiple support packages available to meet your needs, rest assured you are not alone on this journey. A member of our team can reach out within hours of receiving your request. We are happy to work by phone, over email, through video chat and on-site to perform installations, repair and preventative maintenance or application support.

Technical Specifications

Outer dimensions (LxWxH), mm	850x400x500
Weight, kg	47.4 Kg (104.5lb)
Build Volume, mm	128x90x90
Build surface compatibility	Multi-well plates, petridishes, glass slides
Resolution XY, μm	1 μm
Layer Resolution, μm	1 μm
Pressure range (internal pump), kPa	1-200
Pressure range (external air supply), kPa	1-700
No. of printhead slots	6
Photocuring sources (built-in), nm	365, 405, 485, 520
Printbed temperature range, $^{\circ}\text{C}$	4-65
Printhead temperature range, $^{\circ}\text{C}$	4-250 (printhead specific)
Filter class, chamber air-flow	2xHEPA 14
UV-sterilization	UV-C (287nm), 30mW output
Calibration Options	Manual and Automatic (Ultrasonic based)
User Interface	Tablet or Computer
Desktop Application compatibility	Windows, Mac OS
Connectivity	USB Storage, Ethernet connection, Wifi
Supported file formats, software	.gcode, .stl, .amf, .3mf
Power input	100-240V, 50-60Hz, 600W
Fuse	250VAC F6 3A
Structure	Powder-coated, aluminum frame



BIO X⁶

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