

# BIO X6<sup>M</sup>

BIOPRINTING REIMAGINED



**CELLINK**   
A BICO COMPANY

# Introducing the BIO X6™ 3D Bioprinter

Designed to help you push past research boundaries and create the future of medicine.



Updated print box design and motors

Choose up to 6 modular intelligent printheads

Dual pressure settings to enable multiple material and coaxial printing

Clean chamber technology powered by dual HEPA filters

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



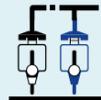
Clean chamber



Temperature control



6 printheads



Dual pressure



## 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.



### Temperature-controlled Printhead | Temp: 4°C - 65°C

This printhead makes it possible to print collagen-based bioinks and other bioinks that require precise temperature control.

### 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 as well as offering heat control.



### Pneumatic Printhead | Temp: Up to 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.

### Photocuring Toolhead

If the integrated photocuring modules are not what you seek, the photocuring toolhead can be attached to have better control over the crosslinking area, particularly when bioprinting in 96-well plates.



### Thermoplastic Printhead | Temp: Up to 250°C

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



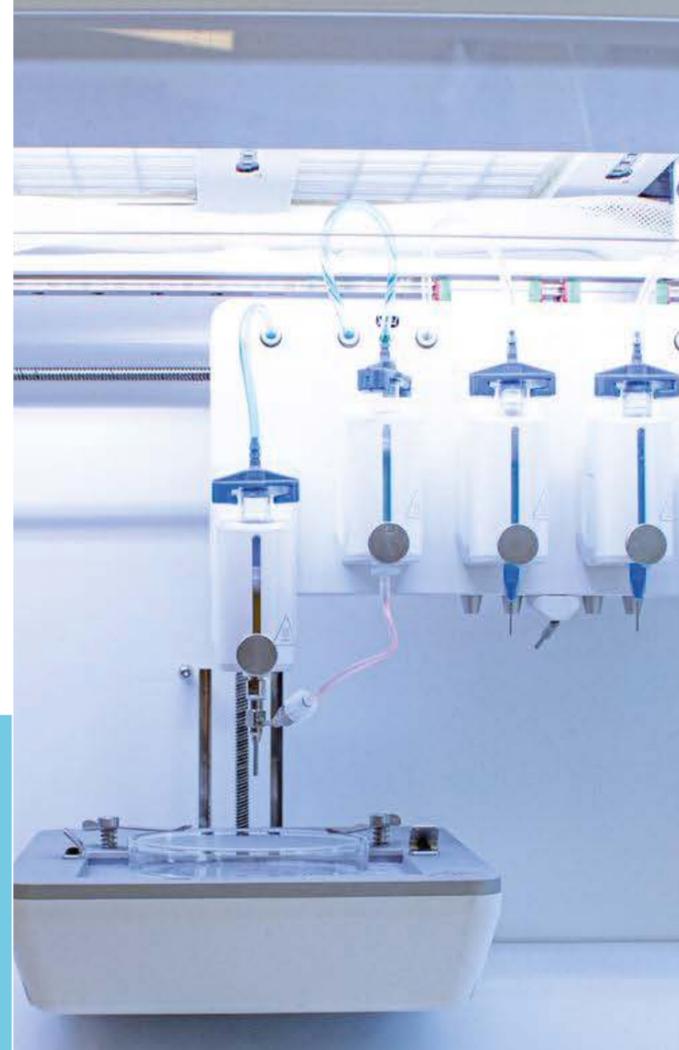
### HD Camera Toolhead

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

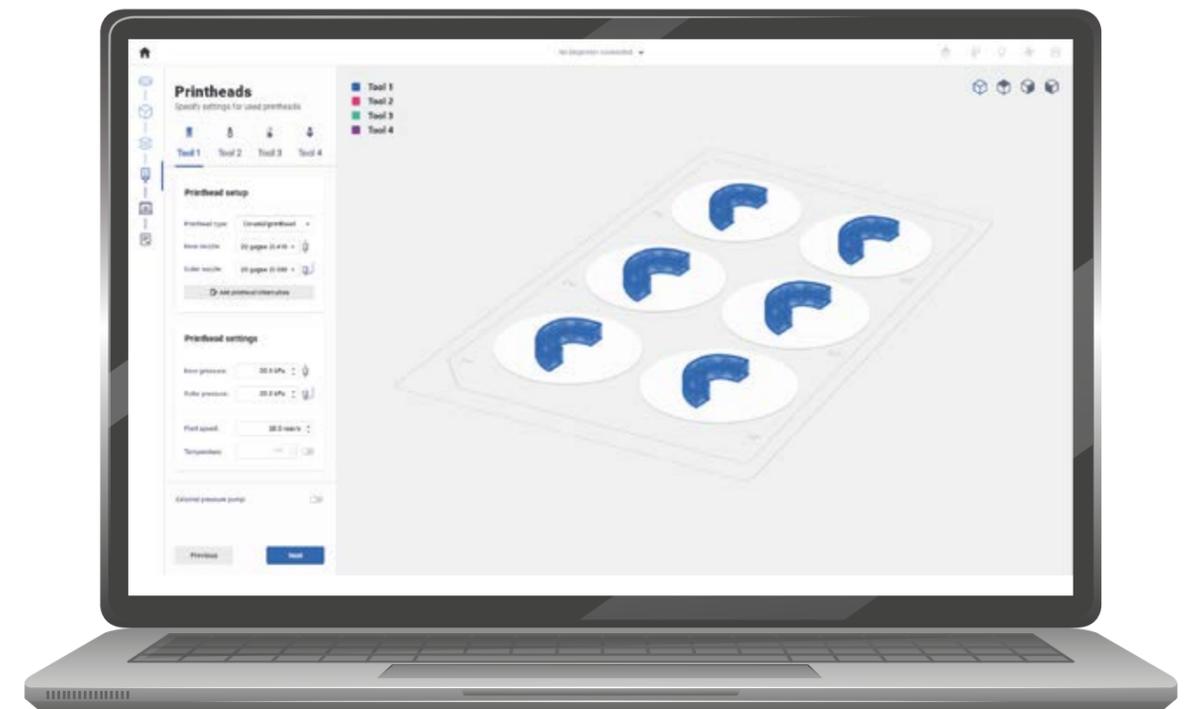
More features to leverage, easier to use.

With a wireless tablet interface, the BIO X6 comes with the revitalized DNA Studio onboard. With advanced features, like compatibility with 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 your workflows across key application areas

## Regenerative Medicine



Whether you are bioprinting mini livers or full-scale 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 crosslinking 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.

We are a one-stop shop for all your bioprinting needs. Select from a wide range of biomaterials, from building blocks for bioink development to 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 handpick 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 application 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, repairs and preventative maintenance or application support.



## About CELLINK

Whether you are developing tumor models, exploring stem cell pluripotency or organ regeneration, CELLINK has you covered. CELLINK is creating the future of health as part of BICO, the world's leading bioconvergence company. At the forefront of the bioprinting industry, CELLINK aims to alleviate organ donor shortage with biofabricated transplantable organs and remains committed to reducing our dependence on animal testing and increasing efficiencies in drug development with more physiologically relevant bioprinted organ models. [Learn more at cellink.com](https://www.cellink.com).

# Technical specifications

Outer dimensions (LxWxH), mm	850x400x500
Weight	47.4 kg (104.5 lb)
Build volume, mm	128x90x90
Build surface compatibility	Multi-well plates, petri dishes, glass slides
Resolution XY, $\mu\text{m}$	1
Layer resolution, $\mu\text{m}$	1
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 airflow	2 HEPA 14
UV sterilization	UV-C (287 nm), 30 mW output
Calibration options	Manual and automatic (ultrasonic based)
User interface	Tablet or computer
Desktop application compatibility	Windows, Mac OS
Connectivity	USB storage, Ethernet connection, Wi-Fi
Supported file formats, software	.gcode, .stl, .amf, .3mf
Power input	100-240V, 50-60Hz, 600W
Fuse	250VAC F6 3A
Structure	Powder-coated, aluminum frame

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