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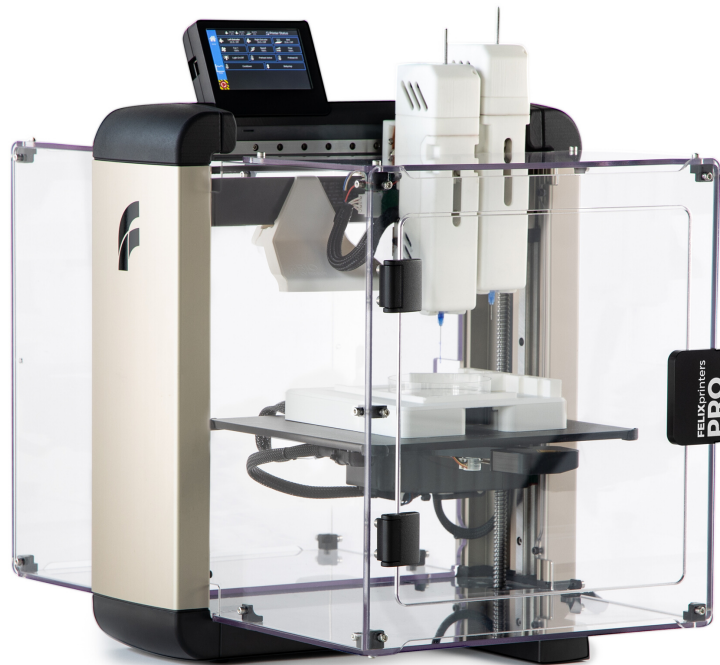
BIOPRINTER
BROCHURE

THE FELIX BIOPRINTER

HIGH PERFORMANCE, CUSTOMIZABLE 3D BIOPRINTING

If you are looking for the ultimate 3D printing bio research instrument in a cost-effective package, then you need look no further than the FELIX BIOPrinter.

The FELIX BIOPrinter is designed to extrude a broad spectrum of material types and viscosities, and is ideal for the researcher who values ease-of-use, and who needs a system which can be customized for the precise requirements of a particular application. The BIOPrinter is made with design freedom in mind, and includes various features that enhance the accuracy of the printing process, while at the same time ensuring that process is cost-effective and easily sterilizable.



The BIOPrinter is issued with CE certification, and is hand-made in the Netherlands meaning that you can have ultimate confidence in its quality and reliability.

Read more about

- The FELIX BIOPrinter Functionality
- Design highlights
- Ease of Use



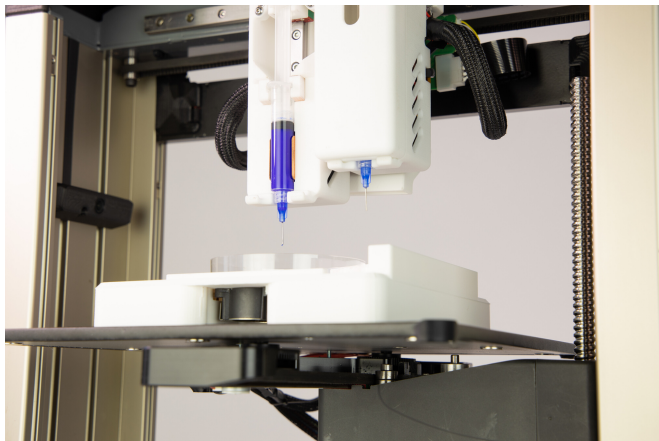
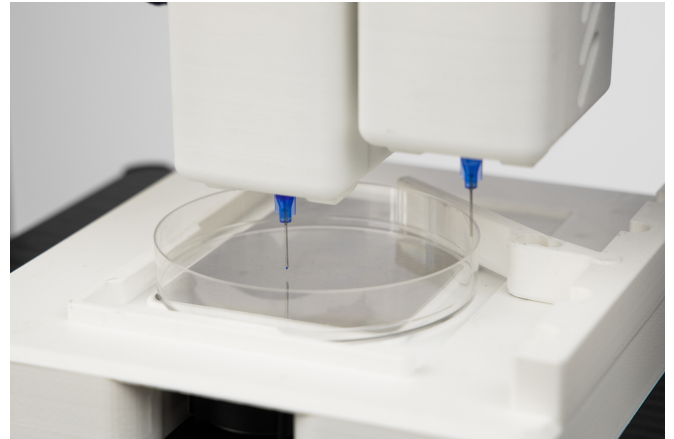
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FUNCTIONALITY

DUAL HEAD PRINTING

The FELIX BIO printer operates a dual syringe system that allows the users to print with two different material types within the same print.

Alternatively, this system set-up also permits petri dishes to be filled with multiple objects using different materials in a single print run, which can speed up specific research activities and avoid time-consuming material changeovers.



SYRINGE AND PRINT BED HEATING / COOLING

Temperature-sensitive bio-inks can be regulated at specific temperatures between 2°C and 50°C with syringe and print bed heating and cooling.

The uniquely designed print bed facilitates easy placement of a wide range of standardized containers.

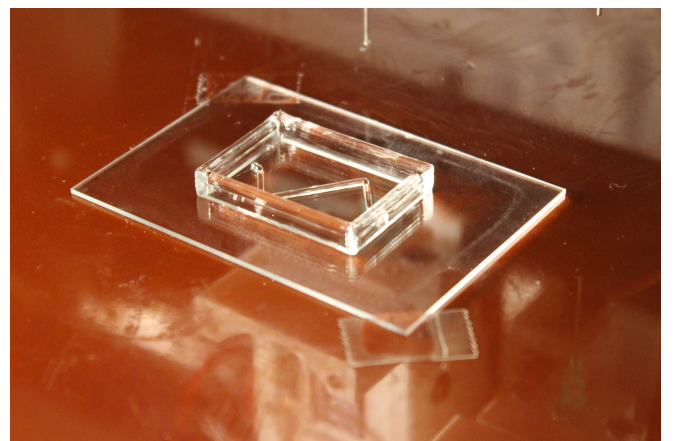
- o From 40ml to 100ml petri dishes.
- o Designed to secure well plates.

MATERIAL DISPENSING

Material dispensing on the FELIX BIOprinter is performed with a high precision linear motor.

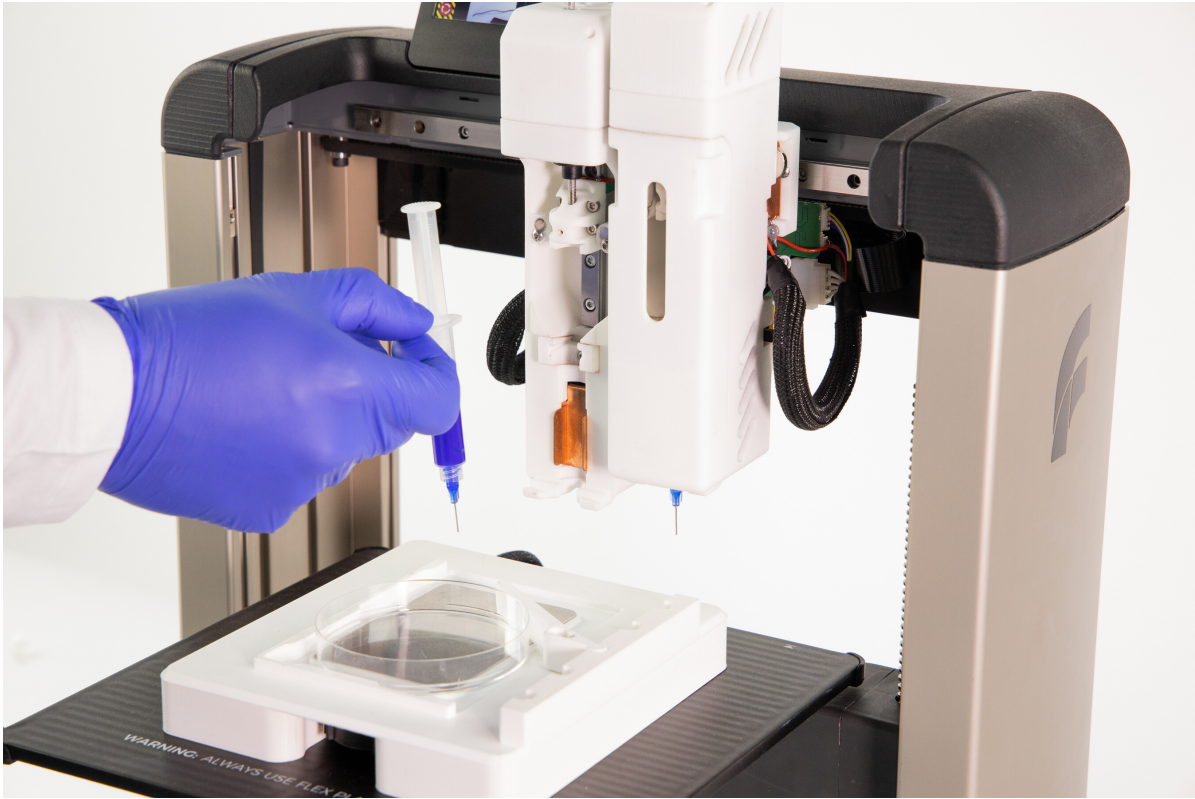
This allows accurate dosing, flow and retraction capabilities.

These are crucial criteria for reliable and precise end results.



DESIGN

DESIGNED FOR MEDICAL, SCIENTIFIC, AND RESEARCH APPLICATIONS



The printer is characterised by key features that are specifically designed for medical, scientific, and research applications, including syringe cooling / heating, print bed cooling and heating, a dual head system, easy syringe positioning (ergonomic access to the machine supports researchers in their work), and automatic bed levelling.

The printer has a flexible, adaptable ecosystem that will meet the wide range of researchers' needs. One major advantage is the source control system which enables the user to use standard slicing software and make changes themselves if needed.

Syringes are not restricted to expensive brand-specific or in-house produced products that essentially drive up operating costs. The machine instead has been designed to use a standard 5 ml syringe, and standardised petri-dishes and culture plates, so there are no limitations on auxiliary parts and materials

The FELIX BIO has retraction capability, which is not possible with alternative air pressure systems, even when it is required to control liquid flow. The FELIX BIO can retract with a highly precise motor, which also allows for better dosage of materials and more accurate material flow.

The FELIX BIO is appropriate for all types of bio-printing research, and is equipped with strong motors that can extrude a range of different viscosity of materials

EASE OF USE

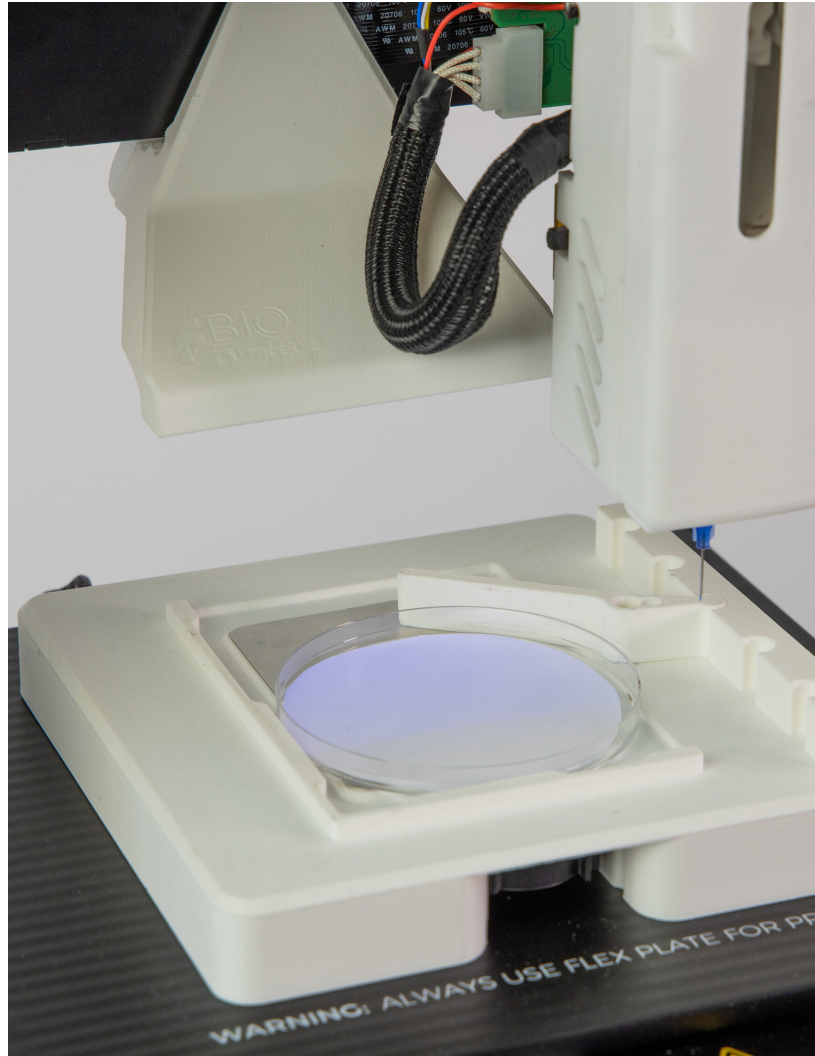
DESIGNED WITH SIMPLIFIED FEATURES

Automatic bed levelling

The bed levelling system works via physical probing of the nozzle against the print surface. Different lengths and size nozzles/needles can be used and easily exchanged to meet specific needs. A perfectly calibrated print bed results in a perfect first layer, leading to accurate results.

UV Curing Module

UV curing Module, allow to print with UV curable viscous materials, enabling quick curing between printing of each layer.



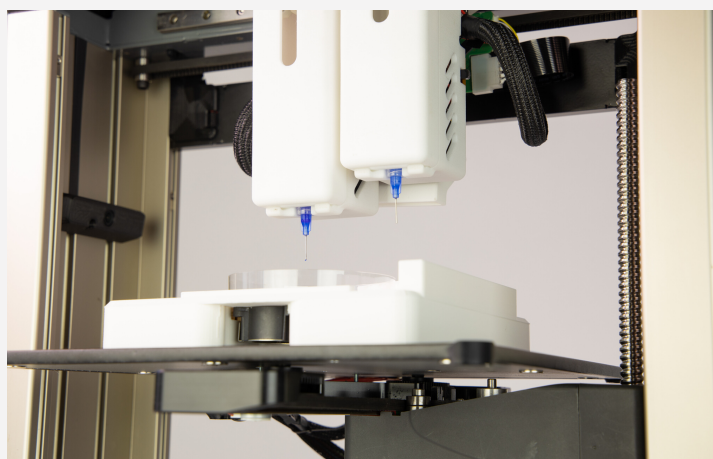
For more information about the FELIX BIO, mail info@felixprinters.com



TECHNOLOGY AND SOFTWARE

INTUITIVE TOUCHSCREEN

Touchscreen provides all relevant information needed to keep you up to date with the status of your print.



BUILD PLATE PRINTING CAPABILITY

Print directly on the heated build plate
Or use the separate cooled/heated unit for petri dishes, microplate and more

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