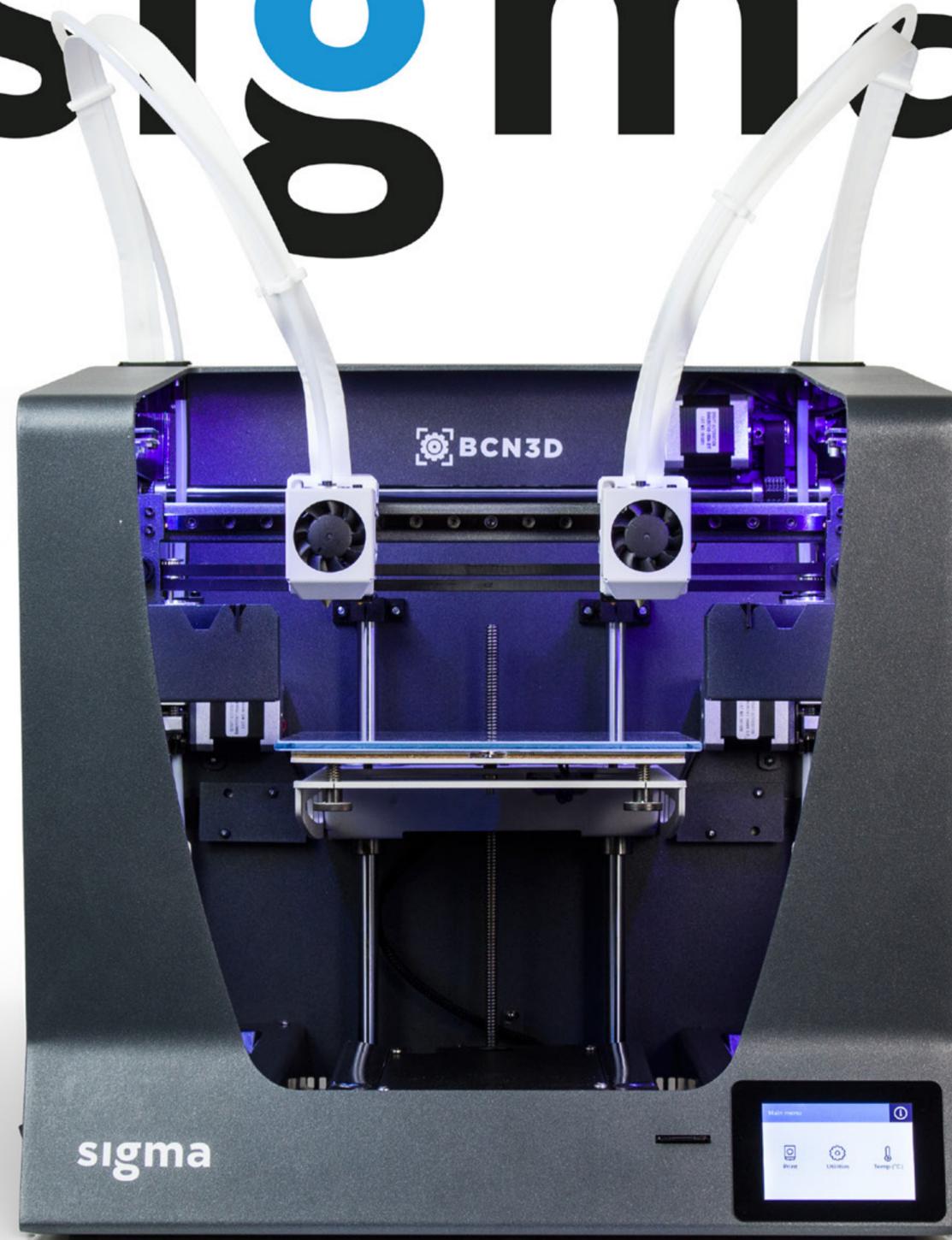
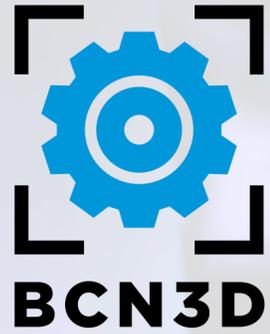


sigma

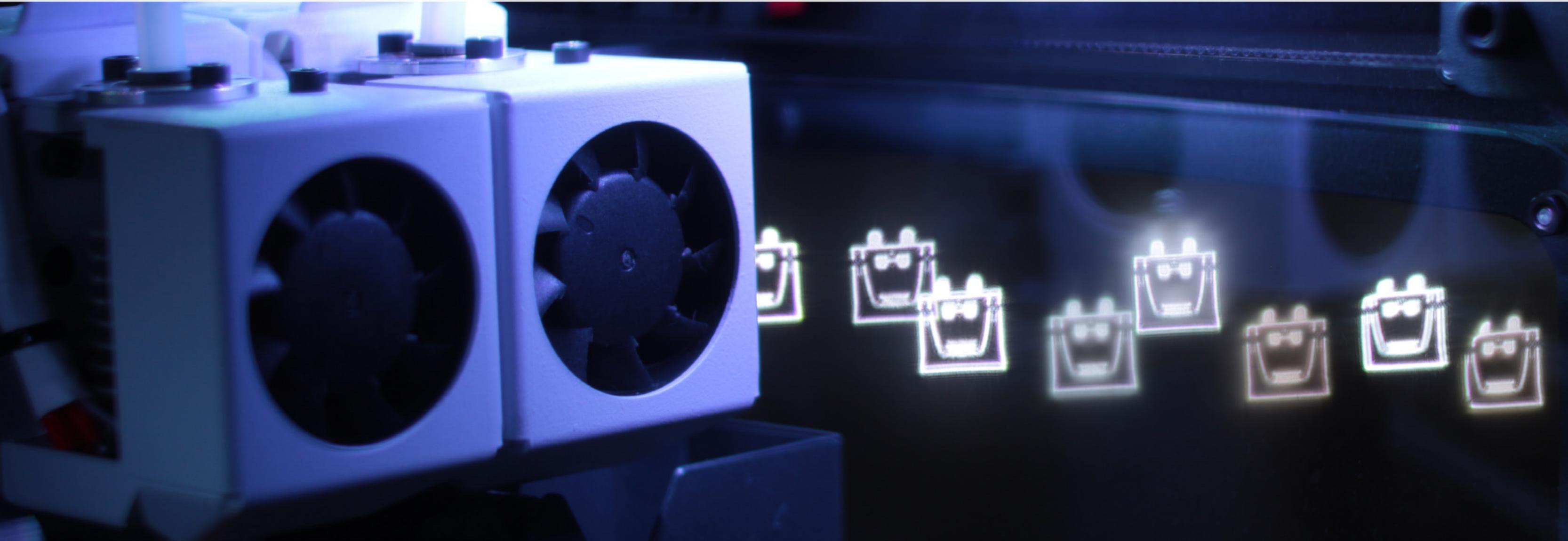


BCN3D Sigma
Release 2017



Fabrication should be for everyone

BCN3D Technologies started off as a project of Fundació CIM, which has more than 20 years of experience in Rapid Prototyping and knowledge transfer, leading a technological revolution in the national and international outlook. As a result, we do not only supply 3D printers, but approach and provide the users with the right knowledge and technologies in order for them to develop and realize their own ideas. This procedural change allows people to make their own tools and projects. By merging different kinds of digital manufacturing technologies we are able to obtain products that, otherwise would have not been materialize. We aim to always keep our philosophy of involving everyone to be an active part of the participative technologies.





BCN3D Sigma

Release 2017

An enhanced reinvention of 3D printers characterized by its IDEX (Independent Dual Extruder), which allows it to work in a simple and effective way. Print both support structures, multimaterial and multicolor models or even cut down the printing times combining different nozzle sizes.



Beyond geometric and material limitations



Faster and quieter than ever before



Even more reliable and accurate





A new standard

The unique Independent Dual Extruder system allows to print 2 different materials or colours while ensures the finest surface finish. The idle toolhead remains parked, preventing the dripping of molten plastic onto the part.

You choose: MULTIMATERIAL OR MULTICOLOR

Create functional parts by combining the properties of two different materials, like rigid and flexible filaments. Or make your designs more attractive by printing with two colours.



PRINT FURTHER, PRINT SOLUBLE SUPPORTS

Avoid geometric limitations and print the most challenging parts thanks to soluble supports. Just immerse the model into water and watch the supports vanish.





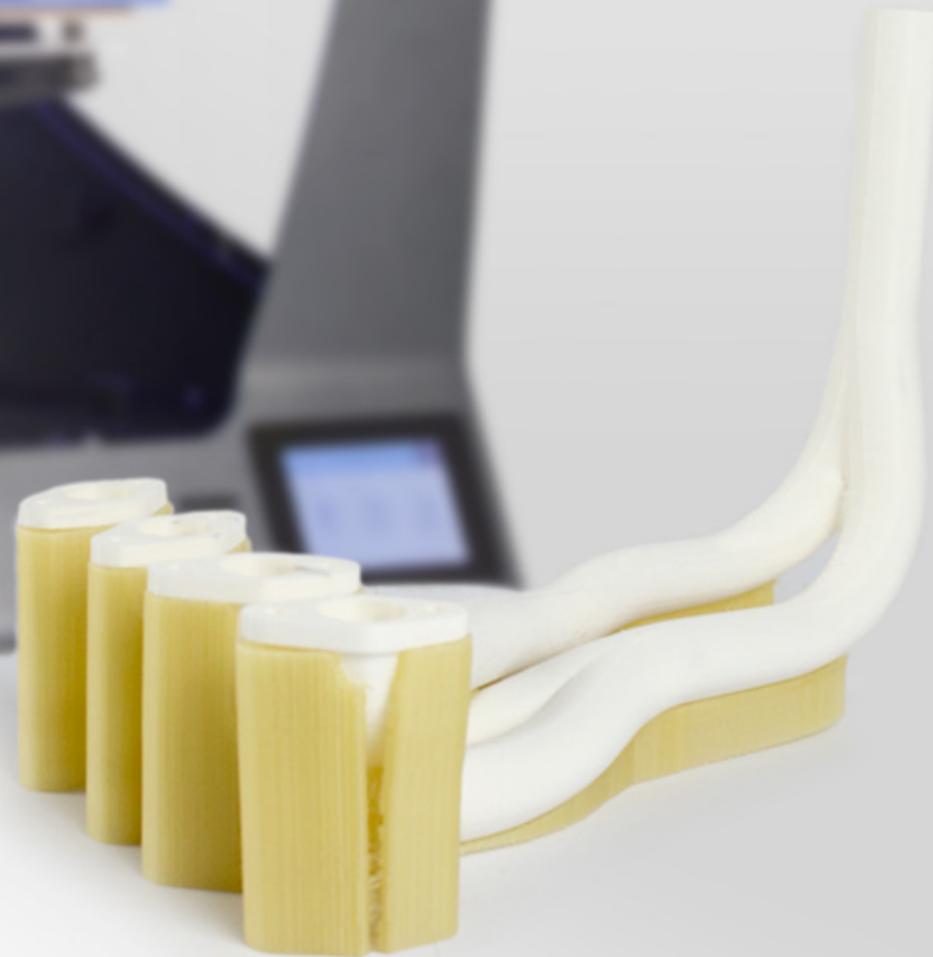
Such a big family

A hotend suitable for each moment: print either the tiniest or the biggest model, use abrasive filaments to materialize your functional part or take the best profit of the IDEX system by combining different nozzle sizes.



STRONG AND INTRICATE

Enhance the interlayer adhesion using bigger nozzle diameters, even for complex models where support structures are required.



FAST YET DETAILED

Print up to three times faster without giving up quality: finer outlines and coarser infills.



QUIET LIKE A BREEZE

Reengineered cooling strategies allow to keep up the performance while reduce drastically the operating sound. Put a Sigma on your desktop!

ACCURACY REDEFINED

Redesigned stepper drivers and improved power management set a new milestone in the accuracy of FFF 3D printers.

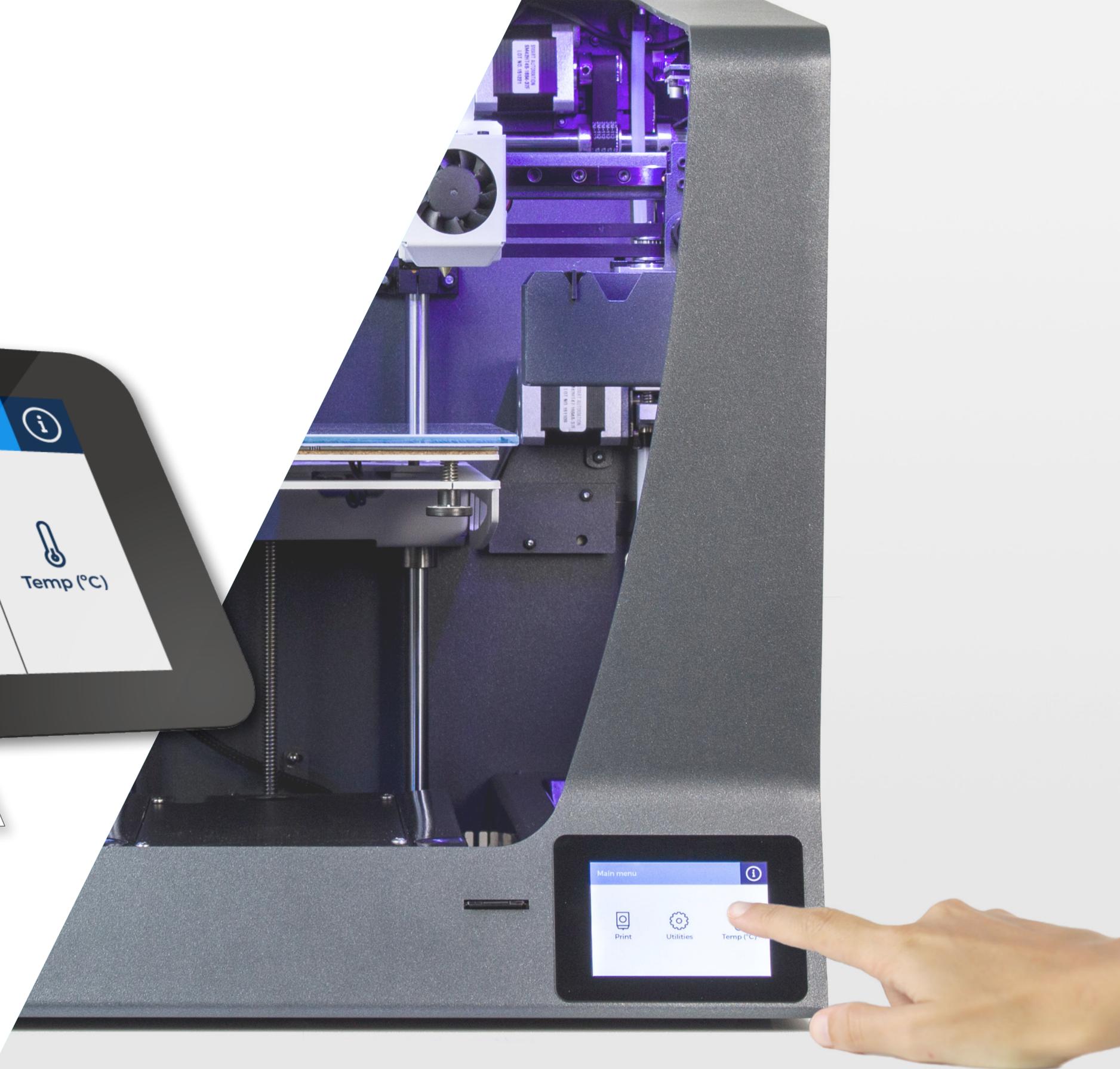


Shy-light by Virtox
<http://www.thingiverse.com/thing:29876>.



FEEL THE TOUCH

Operate flawlessly the Sigma via its full colour touchscreen. The attractive and intuitive interface is fully equipped with advanced features that guides the user step by step.



OPEN FILAMENT SYSTEM, UNLIMITED VERSATILITY

With its optimized full metal hotends the Sigma can print any material you need to fit your requirements, from the common PLA to the most advanced technical plastics like Nylon or PC, independently the manufacturer.

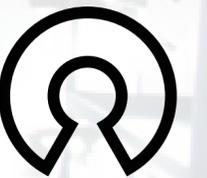
Compatible materials

PLA - ABS - PVA - CPE - Nylon - TPU - HIPS - Specials



PROVEN RELIABILITY

The BCN3D Sigma made it to the “Best of Workhorse 3D Printers” in the 3D Hubs 2017 3D Printer Guide, based on more than 8000 reviews from 3D Printer owners: a huge recognition among more than 500 competitors.



**Do you want to know more?
WE ARE OPEN SOURCE!**

As an Open Source project, we share all the designs, manufacturing processes and quality protocols with the Community to speed up the evolution of 3D Printing.

SPECIFICATIONS

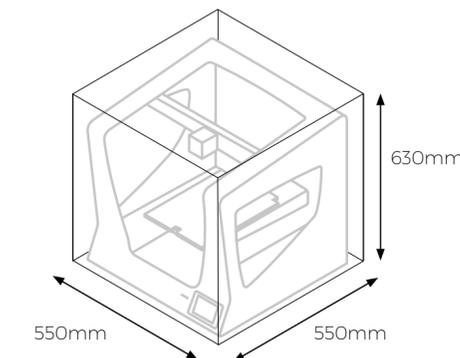
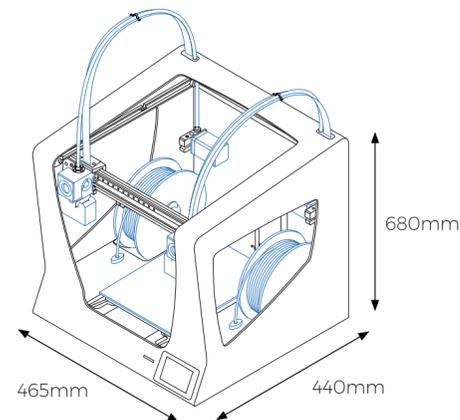
PHYSICAL DIMENSIONS

Overall dimensions
465mm x 440mm x 680mm
(including cables)

Weight: **15kg**
(without filament spools)

Shipping box dimensions
550mm x 550mm x 630mm

Shipping weight: **21kg**



PRINTER PROPERTIES

Architecture
Independent Dual Extruder
(IDEX)

Technology
Fused Filament Fabrication (FFF)

Build Volume
210mm x 297mm x 210mm

Extruders: **2**

Nozzle diameter
**0,3mm / 0,4mm (Standard) /
0,6mm / 0,8mm / 1,0mm**

Heated bed
PCB

Screen
Full Color Capacitive TouchPAD

Electronics
BCN3D Electronics v1.0
Independent Stepper Drivers

Firmware
BCN3D Sigma - Marlin

Supported files
gcode

Operating Sound
58 dB(A)

Certifications
CE / FCC

Connectivity
SD Card (autonomous)
USB

PRINTING PROPERTIES

Layer height
0,05 - 0,5mm
(depending on the nozzle
diameter)

Positioning resolution (X/Y/Z)
1,25µm / 1,25µm / 1µm

Operating temperature
15°C - 35°C

Extruder maximum temperature
290°C

SOFTWARE

File preparation software
Cura-BCN3D, Simplify3D, Slic3r

Operative Systems
Windows, Mac, Linux

Supported files
STL, OBJ, AMF

Extruder maximum printing
temperature
280°C

Heated bed maximum
temperature
100°C

Support Material
PVA for PLA // HIPS for ABS

ELECTRIC PROPERTIES

Input
AC 84-240V, AC 3,6-1,3A, 50-60Hz

Output
24V DC, 13A

Power Consumption
240W

MATERIALS

Filament diameter
2,85 ± 0,05 mm

Compatible Materials

PLA

ABS

PVA

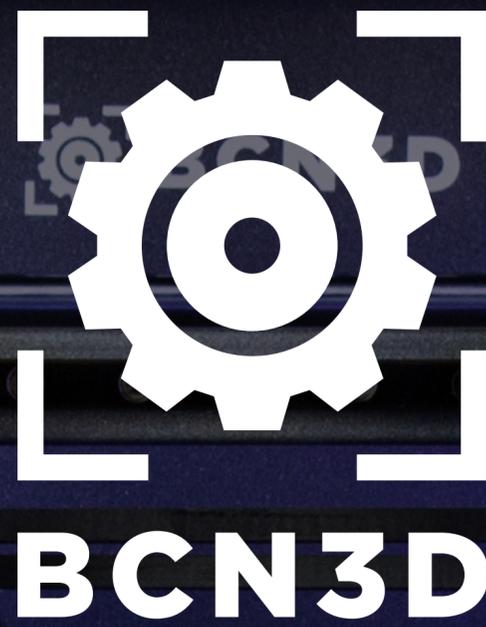
Co-polyesters

Nylon

TPU

HIPS

Specials



BCN3D

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