

# Specifications

## BCN3D Omega I60



### Printer properties

<b>3D Printing Technology</b>	Fused Filament Fabrication (FFF)
<b>Architecture</b>	Independent Dual EXtruder (IDEX)
<b>Printing volume (W x D x H)</b>	450 x 300 x 450 mm (17.7 x 11.8 x 17.7 in)
<b>Build chamber</b>	Heated Chamber up to 70 °C (158 °F) Fully enclosed
<b>Air filtering</b>	Category H13 HEPA filter Active Carbon filter
<b>Number of extruders</b>	2
<b>Warranty</b>	12 Months (Global)
<b>Extruder system</b>	Direct drive bondtech LGX Pro extruders Custom E3D Revo Hotends Quick-swap Hotend Tips 1.75mm Filaments
<b>Printing modes</b>	Single mode Duplication mode Mirror mode Dual mode

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<b>Automatic Calibration System</b>	Main features: <ul style="list-style-type: none"><li>* Accurate Z homing</li><li>* Quick assisted bed leveling</li><li>* Automatic XYZ offset extruder calibration</li><li>* Automatic Mesh Mapping</li></ul>
<b>Electronics</b>	Single Board Computer: Toradex ARM Compute Module Motion Board: BCN3D Electronics with integrated stepper drivers
<b>Firmware</b>	BCN3D Embedded Linux distribution BCN3D Omega - Marlin 2.1.x
<b>Heated bed</b>	Silicone thermal pad Up to 120°C (248 °F) Flexible Printing Surface
<b>Screen</b>	7" IPS full color capacitive touchscreen
<b>Supported languages</b>	English
<b>Supported files</b>	*.gcode
<b>Operating sound</b>	65 dB
<b>Tip/Nozzle diameter</b>	Omega Hotend Tip 0.4 HR (0.4mm tip size) (Included) Omega Hotend Tip 0.6 HR (0.6mm tip size) (Sold separately)
<b>Connectivity</b>	Offline printing: USB Online printing: WiFi or Ethernet (through BCN3D Cloud)
<b>Materials Operation System (MOS)</b>	75 °C (167 °F) max temperature Average relative humidity <10%

### Materials

<b>Filament diameter</b>	1,75 ± 0,05 mm
<b>Compatible materials</b>	BCN3D Filaments Open Filament Network Custom Materials (with free license activation)
<b>Open filament system</b>	Yes (with free license activation)

### Physical properties

<b>Overall dimensions (W x D x H)</b>	987 x 600 x 1927 mm ( 38.86 x 23.62 x 75.87 in)
<b>Weight</b>	240 kg (530 lbs)
<b>Shipping box dimensions (W x D x H)</b>	1180 x 720 x 2100 mm (46.5 x 28.3 x 82.7 in)
<b>Shipping weight</b>	260 kg (794 lbs)

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<b>Minimum working area</b>	A minimum clearance of 20 cm is required on all sides, except for the front, where a clearance of 80 cm is necessary to operate the printer.
<b>Air/ventilation requirements</b>	No requirements
<b>Shipping method</b>	Custom pallet 1180 (W) x 720 (D) mm (46.46 (W) x 28.35 (D) in)

### Printing properties

<b>Recommended profiles</b>	Built-in print profiles in slicer software
<b>Accuracy</b>	+/- .200 mm (.008 in), or +/- .002 mm/mm (.002 in/in), whichever is greater. <i>Test conditions: 0.4mm hotend tip and 0.15 layer height.</i>
<b>Layer Height</b>	50 µm minimum, 300 µm maximum
<b>Operating Environment</b>	Temperature: 18 - 30 °C (64.4 - 86 °F), Humidity: 30 - 70% RH
<b>Extruder maximum temperature</b>	300 °C (572 °F)
<b>Heated bed maximum temperature</b>	120 °C (248 °F)
<b>Build chamber maximum temperature</b>	70 °C (158 °F)

### Electric Properties

<b>Input</b>	AC 200-240V, AC 10,25-8,5A, 50-60Hz
<b>Maximum power consumption</b>	2050W
<b>UPS Topology</b>	Online 1kVA Battery specifications: 3 batteries, each 36VDCx7Ah

### Software

<b>File preparation software</b>	BCN3D Stratos for slicing and BCN3D Cloud for printer management
<b>Operating Systems</b>	Windows 10 or higher, 64-bit, Mac OSX 11 Big Sur or higher, 64-bit, Linux, 64-bit
<b>Wireless connectivity</b>	Online printing: WiFi or Ethernet (through BCN3D Cloud)
<b>Supported browsers BCN3D Cloud</b>	Google Chrome, Mozilla Firefox, Safari

All specifications are approximate and subject to change without notice.  
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