

# Bambu Lab X1E

## Technical Specification

### Body

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Build Volume:	256*256*256 mm <sup>3</sup>
Chassis:	Steel
Shell:	Aluminum & Glass

### Supported Filament

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PLA, PETG, TPU, PVA, BVOH:	Optimal
ABS, ASA, PC, PA, PET:	Superior
Carbon/Glass Fiber Reinforced PLA, PETG, PA, PET, PC, ABS, ASA:	Superior
PPA-CF/GF, PPS, PPS-CF/GF:	Ideal

### Heating

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Active Chamber Heating:	yes
Maximum Chamber Control Temperature:	60°C

### Air Purification

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Pre-filter grade:	G3
HEPA filter grade:	H12
Activated Carbon Filter type:	Coconut Shell Granulated
VOC Filtration:	Optimal
Particulate Matter Filtration:	Yes

### Network Control

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Ethernet:	yes
Wireless Network:	Wi-Fi
Network Kill Switch:	Wi-Fi & Ethernet
Removable Network Module:	Yes
802.1X Network Access Control:	Yes

## Cooling

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Part Cooling Fan:	Closed Loop Control
Hot End Fan:	Closed Loop Control
Control Board Fan:	Closed Loop Control
Chamber Temperature Regulator Fan:	Closed Loop Control
Auxiliary Part Cooling Fan:	Closed Loop Control

## ToolHead

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Hot End:	All-Metal
Extruder Gears:	Hardened Steel
Nozzle:	Hardened Steel
Max Hot End Temperature:	320 °C
Nozzle Diameter (Included):	0.4 mm
Nozzle Diameter (Optional):	0.2 mm, 0.6 mm, 0.8 mm
Filament Cutter:	Yes
Filament Diameter:	1.75 mm

## Heatbed

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Build Plate:	Flexible Steel Plate
Build Plate Surface (Included):	Bambu Smooth PEI Plate
Build Plate Surface (Optional):	Bambu High Temperature Plate, Bambu Textured PEI Plate, Bambu Cool Plate
Max Build Plate Temperature:	110°C@220V, 120°C@110V

## Speed

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Max Speed of Toolhead:	500 mm/s
Max Acceleration of Toolhead:	20 m/s <sup>2</sup>
Max Hot End Flow:	32 mm <sup>3</sup> /s @ABS(Model: 150*150mm single wall; Material: Bambu ABS; Temperature: 280°C)

## Sensors

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Bambu Micro Lidar:	Yes
Chamber Monitoring Camera:	1920*1080 Included
Door Sensor:	Yes
Filament Run Out Sensor:	Yes
Filament Odometry:	Optional with AMS
Power Loss Recover:	Yes

## Physical Dimensions

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Dimensions:	389*389*457 mm <sup>3</sup>
Net Weight :	16 kg

## Electrical Requirements

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Voltage:	100-240 VAC, 50/60 Hz
Max Power:	1400W@220V, 750W@110V

## Electronics

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Display:	5-inch 1280*720 Touch Screen
Storage:	4GB EMMC and Micro SD Card Reader
Control Interface:	Touch Screen, APP, PC Application
Motion Controller:	Dual-Core Cortex M4
Application Processor:	Quad ARM A7 1.2 GHz
Neural-Network Processing Unit:	2 Tops

## Software

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Slicer:	Bambu StudioSupport third party slicers which export standard G-code such as SuperSlicer, PrusaSlicer and Cura, but certain advanced features may not be supported.
Slicer Supported OS:	MacOS, Windows

## Wi-Fi

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Frequency Range:	2412 MHz - 2472 MHz (CE) 2412 Mhz - 2462 MHz (FCC) 2400 MHz - 2483.5 MHz (SRRC)
Transmitter Power (EIRP):	≤ 21.5 dBm (FCC) ≤ 20 dBm (CE/SRRC)
Protocol:	IEEE 802.11 b/g/n

## Ethernet

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Socket:	RJ45
Speed:	100 Mbps / Full Duplex

## Laser

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Laser (CLASS 1):	850 nm、850 nm  < 0.778 mW
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