NEW

Bambu Lab

Bambu Lab X1E

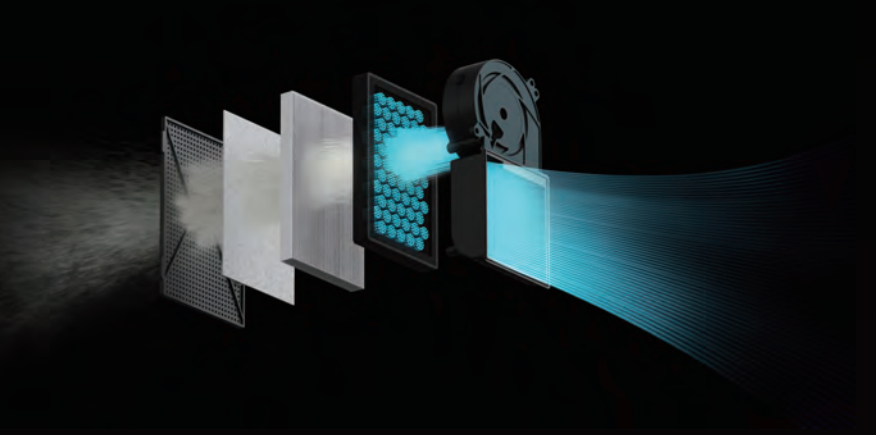
For Professionals and Engineering Applications

Authorised Australian distributor:

EMONA INSTRUMENTS PTY LTD

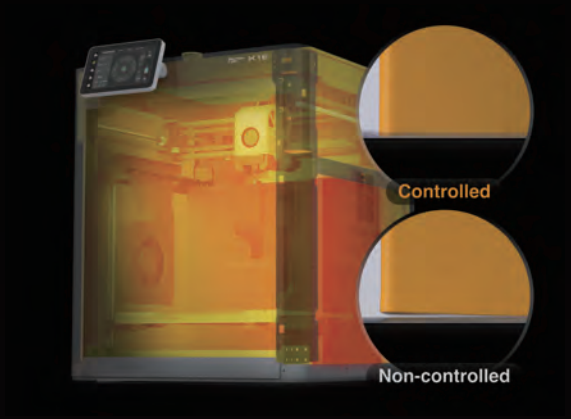
Effectively Filter Particulates and VOCs, Protecting Yourself in Less Ventilated Environments

A G3 pre-filter, an H12 HEPA filter, and a high-quality coconut shell activated carbon filter are combined to provide optimal air filtration.



Active Heating and Controlled Chamber Temp, Reducing Prints Warping

The active heated chamber, reaching temperatures of up to 60°C / 140°F, ensures improved print quality, particularly for filaments that are prone to warping, such as ABS and PC.



Advanced Network Security Solutions, Protecting Your Business Integrity

The X1E provides WPA2-Enterprise Wi-Fi Authentication (EAP-PEAP/EAP-TLS/TAP-TTLS) and individual physical kill switches for both Wi-Fi and Ethernet (newly added), meeting stringent network security requirements.

320°C /608°F Nozzle Temperature, Unlocking Greater Heat for High-Temperature Materials

Higher nozzle temperature makes it possible to print higher performance materials with improved dimensional stability, heat resistance and mechanical performance, such as PPA-CF/GF PPS and PPS-CF.

Tech Specs

Supported Filament

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

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

Ethernet

Socket:	RJ45
Speed:	100 Mbps / Full Duplex

Network Control

Ethernet:	Yes
Wireless Network:	Wi-Fi
Network Kill Switch:	Wi-Fi & Ethernet
Removable Network Module:	Yes

Wi-Fi

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

Air Purification

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

Laser (CLASS 1)

Wavelength:	850 nm、850 nm
Maximum Output of Laser Radiation	< 0.778 mW

EMONA Instruments
Web: www.emona.com.au
Toll Free: 1800 632 953

Bambu Lab X1E
Technical Specification

Body

Build Volume:	256*256*256 mm^3
Chassis:	Steel
Shell:	Aluminum & Glass

Supported Filament

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

Active Chamber Heating:	yes
Maximum Chamber Control Temperature:	60℃

Air Purification

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

Network Control

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

Cooling

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

Hot End:	All-Metal
Extruder Gears:	Hardened Steel
Nozzle:	Hardened Steel
Max Hot End Temperature:	320 ℃
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

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℃@220V， 120℃@110V

Speed

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

Sensors

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

Dimensions:	389*389*457 mm^3
Net Weight :	16 kg

Electrical Requirements

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

Electronics

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

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

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

Socket:	RJ45
Speed:	100 Mbps / Full Duplex

Laser

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

EMONA Instruments
Web: www.emona.com.au
Toll Free: 1800 632 953