

Bambu Lab X1-Carbon Technical Specifications

Те	chnology	X1-Carbon
Technology		Fused Deposition Modeling
Body	Build Volume(W×D×H)	256 x 256 x 256 mm ³
	Chassis	Steel
	Shell	Aluminum & Glass
Tool Head	Hot End	All-Metal
	Extruder Gears	Hardened Steel
	Nozzle	Hardened Steel
	Max Hot End Temperature	300 °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
	Build Plate	Flexible Steel Plate
Hot bed	Build Plate Surface (Included)	Bambu Cool Plate, Bambu Engineering Plate
	Build Plate Surface (Optional)	Bambu High Temperature Plate
	Max Build Plate Temperature	110°C @220 V, 120°C @110 V
	Max Speed of Tool Head	500 mm/s
Speed	Max Acceleration of Tool Head	20 m/s ²
	Max Hot End Flow	32 mm³/s @ABS (Model: 150 x 150 mm single wall; Material: Bambu ABS; Temperature: 280°C)
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
	Air Filter	Activated Carbon Filter
Supported Filament	PLA, PETG, TPU, ABS, ASA, PET	Yes
	PA, PC	Ideal
	Carbon/Glass Fiber Reinforced Polymer	Ideal
Sensors	Bambu Micro Lidar	Yes
	Chamber Monitoring Camera	1920 x 1080 Included
	Door Sensor	Yes
	Filament Run Out Sensor	Yes
	Filament Odometry	Optional with AMS
	Power Loss Recover	Yes
	Dimensions	389 x 389 x 457 mm ³
Physical Dimensions	Net Weight	
	Voltage	14.13 kg 100-240 VAC, 50-60 Hz
Electrical Requirements	Max Power	
		1000 W @220 V, 350 W @110 V
Electronics	Display	5-inch 1280 x 720 Touch Screen
	Connectivity	Wi-Fi, Bambu-Bus
	Storage	4 GB 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 Studio Support third party slicers which export standard G-code such as Superslice Prusaslicer and Cura, but certain advanced features may not be supported
	Slicer Supported OS	MacOS, Windows