X2D Spec

Item		Specification
Printing Technology		Fused Deposition Modeling
Body	Build Volume (W*D*H)	Main Nozzle Printing: 256*256*260 mm^3 Auxiliary Nozzle Printing: 235.5*256*256 mm^3 Dual Nozzle Printing: 235.5*256*256 mm^3 Total Volume for Two Nozzles: 256*256*260 mm^3
	Chassis	Plastic and Steel
	Outer Frame	Plastic, Glass, and Metal
Dimensions and Weight	Physical Dimensions	392*406*478 mm^3
	Net Weight	16.25 kg
Toolhead	Extruder Gear	Hardened Steel
	Nozzle	Hardened Steel
	Max Nozzle Temperature	300 °C
	Included Nozzle Diameter	0.4 mm
	Supported Nozzle Diameter	0.2 mm, 0.4 mm, 0.6 mm, 0.8 mm
	Filament Cutter	Built-in
	Filament Diameter	1.75 mm
	Extruder Motor	Bambu Lab High-precision Permanent Magnet Synchronous Motor
Auxiliary Extruder	Extruder Gear	Hardened Steel
	Extruder Motor	Stepper Motor
Heatbed	Build Plate Material	Flexible Steel Plate
	Included Build Plate Type	Textured PEI Plate
	Supported Build Plate Type	Textured PEI Plate, Smooth PEI Plate, Cool Plate SuperTack, Engineering Plate
	Max Heatbed Temperature	120 °C
Speed	Max Speed of Toolhead	1000 mm/s
	Max Acceleration of Toolhead	20,000 mm/s^2
	Max Flow for Hotend	40 mm^3/s (Test parameters: 250 mm round model with a single outer wall; Bambu Lab ABS; 280 °C printing temperature)
Chamber Temperature Control	Active Chamber Heating	Supported
	Max Temperature	65 °C
Air Purification	Pre-filter Grade	G3
	HEPA Filter Grade	H12
	Activated Carbon Filter Type	Granulated Coconut Shell
	VOC Filtration	Supported
	Particulate Matter Filtration	Supported

Item		Specification
Cooling	Part Cooling Fan	Closed Loop Control
	Hotend Cooling Fan	Closed Loop Control
	Main Control Board Fan	Closed Loop Control
	Chamber Heat Circulation Fan	Closed Loop Control
	Auxiliary Part Cooling Fan	Closed Loop Control
	External Exhaust Fan	Closed Loop Control
Filament Supported (Main Hotend)	PLA, PETG, ABS, ASA, TPU, Support for PLA, Support for PLA/PETG, Support for ABS, PET, PA, PC, PVA; Carbon/Glass Fiber Reinforced PLA, PETG, ABS, ASA, PA6, PAHT, PPA, PET	
Filament Supported (Auxiliary Hotend)	Type	PLA (excluding PLA Aero), PETG, ABS, ASA, TPU for AMS, Support for PLA, Support for PLA/PETG, Support for ABS, Support for PA/PET, PET, PA, PC, PVA; Carbon/Glass Fiber Reinforced PLA, PETG, ABS, ASA, PA6, PAHT, PET
	Print with Caution[1]	PLA Silk, PETG-CF, ASA-CF, PA6-CF, TPU for AMS, Support for PA/PET
Sensor	Live View Camera	Built-in; 1920*1080
	Toolhead Camera	Built-in; 1600*1200
	Door Sensor	Supported
	Filament Run Out Sensor	Supported
	Filament Tangle Sensor	Supported
	Filament Odometry	Supported with AMS
	Power Loss Recovery	Supported
Electrical Requirements[2]	Voltage	High-voltage version: 200-240 VAC, 50/60 Hz Low-voltage version: 100-120 VAC , 50/60 Hz
	Max Power[3]	High-voltage version: 1600 W@220 V Low-voltage version: 1100 W@110 V
	Steady-State Power	High-voltage version: PLA (25 °C): 250 W@220 V PC (25 °C): 550 W@220 V Low-voltage version: PLA (25 °C): 250 W@110 V PC (25 °C): 550 W@110 V
Environment Requirements	Operating Temperature	10 °C-30 °C
Electronics	Touchscreen	5-inch 1280*720 Touchscreen
	Storage	Built-in 8 GB EMMC and USB Port
	Control Interface	Touchscreen, mobile App, PC App
	Motion Controller	Dual-core Cortex-M4 and Single-core Cortex-M7
	Application Processor	Quad-core ARM with dedicated NPU
Software	Slicer	Bambu Studio Supports third-party slicers which export standard G-code, such as Super Slicer, PrusaSlicer and Cura, but certain advanced features may not be supported.
	Supported Operating System	MacOS, Windows, Linux

Item		Specification
Network Control	Ethernet	Not Available
	Wireless Network	Dual-Band Wi-Fi
	Network Kill Switch	Not Available
	Removable Network Module	Not Available
	802.1X Network Access Control	Not Available
Wi-Fi	Operating Frequency	2412 - 2472 MHz, 5150 - 5850 MHz (FCC/CE) 2400 - 2483.5 MHz, 5150 - 5850 MHz (SRRC)
	Wi-Fi Transmitter Power (EIRP)	2.4 GHz: ＜23 dBm (FCC)；＜20 dBm (CE/SRRC/MIC) 5 GHz Band1/2: ＜23 dBm (FCC/CE/SRRC/MIC) 5 GHz Band3: ＜30 dBm (CE)；＜24 dBm (FCC) 5 GHz Band4: ＜23 dBm (FCC/SRRC)；＜14 dBm (CE)
	Wi-Fi Protocol	IEEE 802.11 a/b/g/n

1. For optimal print quality, please use the main hotend to print these filaments.
2. The printer's voltage specifications vary by sales region. Before use, please check the label next to the power socket on the printer to ensure the supplied voltage matches the indicated voltage.
3. To ensure the heatbed quickly reaches the needed temperature, the printer will maintain maximum power for about 3-5 minutes.