Bambu Lab H2D Pro
Technical Specification

Printing Technology	Fused Deposition Modeling

Body

Build Volume (W*D*H)	Single Nozzle Printing: 325*320*325 mm^3 Dual Nozzle Printing: 300*320*325 mm^3 Total Volume for Two Nozzles: 350*320*325 mm^3
Chassis	Aluminum and Steel
Outer Frame	Plastic and Glass

Physical Dimensions

Physical Dimensions	492*514*626 mm^3
Net Weight	31 kg

Toolhead

Hotend	All Metal
Extruder Gear	Aluminum and Steel
Nozzle	Tungsten Carbide
Max Nozzle Temperature	350 ℃
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

Heatbed

Build Plate Material	Flexible Steel Plate
Included Build Plate Type	Textured PEI Plate
Supported Build Plate Type	Textured PEI plate, Smooth PEI Plate
Max Heatbed Temperature	120 ℃

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^2 (Test parameters: 250 mm round model with a single outer wall; Bambu Lab ABS; 280 ℃ printing temperature)

Chamber Temperature Control

Active Chamber Heating	Supported
Max Temperature	65 ℃

Air Purification

Pre-filter Grade	G3
HEPA Filter Grade	H12
Activated Carbon Filter Type	Granulated Coconut Shell
VOC Filtration	Superior
Particulate Matter Filtration	Supported

Cooling

Part Cooling Fan	Closed Loop Control
Cooling Fan for Hotend	Closed Loop Control
Main Control Board Fan	Closed Loop Control
Chamber Exhaust Fan	Closed Loop Control
Chamber Heat Circulation Fan	Closed Loop Control
Auxiliary Part Cooling Fan	Closed Loop Control
Toolhead Enhanced Cooling Fan	Closed Loop Control

Supported Filament Type

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

Sensor

Live View Camera	Built-in; 1920*1080
Nozzle Camera	Built-in; 1920*1080
Toolhead Camera	Built-in; 1920*1080
Door Sensor	Supported
Filament Run Out Sensor	Supported
Filament Tangle Sensor	Supported
Filament Odometry	Supported with AMS
Power Loss Recovery	Supported

Electrical Requirements

Voltage	100–120 VAC / 200–240 VAC, 50/60 Hz
Max Power1	2200 W@220 V / 1320 W@110 V Please purchase the version corresponding to your region's voltage.

Working Temperature

10 ℃-30 ℃

Electronics

Touchscreen	5-inch 720*1280 Touchscreen
Storage	Built-in 32 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 1.5 GHz ARM A7
Neural Processing Unit	2 TOPS

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

Network Control

Ethernet	Available
Wireless Network	Wi-Fi
Network Kill Switch	Wi-Fi and Ethernet
Removable Network Module	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

Ethernet

Port Type	RJ45
Speed	100 Mbps Full-Duplex

AMS 2 Pro

Dimensions	372*280*226 mm^3
Net Weight	2.5 kg
Housing Material	ABS/PC
Filament Supported	PLA, PETG, ABS, ASA, PET, PA, PC, PVA (dried), BVOH (dried), PP, POM, HIPS, Bambu PLA-CF/PAHT-CF/PETG-CF/Support for PLA/PETG, and TPU for AMS
Filament Not Supported	TPE, generic TPU, PVA (damp), BVOH (damp), Bambu PET-CF/TPU 95A, and other filament that contains carbon fiber or glass fiber
Filament Diameter	1.75 mm
Spool Dimension	Width: 50 mm–68 mm Diameter: 197 mm–202 mm
RFID Identification	Supported
Highest Temperature	65 ℃
Filament Supported2	PLA, PETG, Support for PLA/PETG, ABS*, ASA*, PET*, PA*, PC*, PVA*, BVOH *, PP, POM*, HIPS*, Bambu PLA-CF*/ PAHT-CF*/ PETG-CF*, and TPU for AMS*
Active Moisture Discharge	Supported
Sealed Storage	Supported
Temperature and Humidity Detection and Maintenance	Supported. Real-time temperature and humidity can be displayed on the screen3, Bambu Studio, and Bambu Handy.
Input	24 V 4 A

AMS HT

Dimensions	114*280*245 mm^3
Net Weight	1.21 kg
Housing Material	PC/PA
Flame Retardant Grade	UL 94 V-0
Screen	Supports displaying real-time temperature and humidity, and remaining drying duration.
Filament Supported	Feeder Unit Filament Inlet: PLA, PETG, ABS, ASA, PET, PA, PC, PVA (dried), BVOH (dried), PP, POM, HIPS, Bambu PLA-CF/PAHT-CF/PETG-CF/Support for PLA/PETG, and TPU for AMS Bypass Filament Outlet: TPE, generic TPU, Bambu PET-CF/TPU 95A, and other filament that contains carbon fiber or glass fiber
Filament Not Supported	PVA (damp), BVOH (damp)
Filament Diameter	1.75 mm
Spool Dimension	Width: 50 mm–68 mm Diameter: 197 mm–202 mm
RFID Identification	Supported
Filament Odometry	Supported
Maximum Temperature	85 ℃
Filament Supported	PLA, PETG, Support for PLA/PETG, ABS, ASA, PET, PA, PC, PVA, BVOH, PP, POM, HIPS, Bambu PLA-CF/ PAHT-CF/ PETG-CF, and TPU for AMS
Active Moisture Discharge	Supported
Rotating Drying Mode	Supported
Sealed Storage	Supported
Top Lid Open Detection	Supported

AMS HT

Temperature, Humidity Detection and Maintenance	Supported. Real-time information can be displayed on the printer screen3, AMS HT screen, Bambu Studio, and Bambu Handy.
Voltage	DC: 24 V AC: 100 V–240 V~, 50 Hz/60 Hz
Average Power	150 W

1. To ensure the heatbed quickly reaches the needed temperature, the printer will maintain maximum power for about 3 minutes.

2. Filaments marked with * require higher drying temperature. The AMS 2 Pro cannot dry them completely. If you want better drying performance for these filaments, we recommend using the AMS HT.

3. The screens of P1 series printers do not support this function.