

Bambu Lab H2S

Your Personal Manufacturing Hub



H2S & H2S Laser Edition Spec Sheet

Item		Specification
Printing Technology		Fused Deposition Modeling
Body	Build Volume (W*D*H)	340*320*340 mm³
	Chassis	Aluminum and Steel
	Outer Frame	Plastic and Glass
Physical Dimensions	Physical Dimensions	492*514*626 mm³
	Net Weight	30 kg
	Extruder Gear	Hardened Steel
	Nozzle	Hardened Steel
	Max Nozzle Temperature	350 ° C
	Included Nozzle Diameter	0.4 mm
Toolhead	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
	Build Plate Material	Flexible Steel Plate
	Included Build Plate Type	Textured PEI Plate
Heatbed	Supported Build Plate Type	Textured PEI plate, Smooth PEI 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 (Standard Flow Hotend)	40 mm³/s (Test parameters: 250 mm round model with a single outer wall; Bambu Lab ABS; 280 °C printing temperature)
Chamber	Active Chamber Heating	Supported
Temperature Control	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

	Part Cooling Fan	Closed Loop Control	
	Cooling Fan for Hotend	Closed Loop Control	
Cooling	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	
Filament Supported		PLA, PETG, TPU, PVA, BVOH, ABS, ASA, PC, PA, PET, PPS; Carbon/Glass Fiber Reinforced PLA, PETG, PA, PET, PC, ABS, ASA, PPA, PPS	
	Live View Camera	Built-in; 1920*1080	
	Toolhead Camera	Built-in; 1600*1200	
	BirdsEye Camera ¹	Built-in; 3264*2448	
Consor	Door Sensor	Supported	
Sensor	Filament Run Out Sensor	Supported	
	Filament Tangle Sensor	Supported	
	Filament Odometry	Supported with AMS	
	Power Loss Recovery	Supported	
Electrical	Voltage	100-120 VAC / 200-240 VAC, 50/60 Hz	
Requirements	Max Power ²	2050 W@220 V / 1170 W@110 V	
Working Temperature		10 °C-30 °C	
	Touchscreen	5-inch 720*1280 Touchscreen	
	Storage	Built-in 8 GB EMMC and USB Port	
Flootropico	Control Interface	Touchscreen, mobile App, PC App	
Electronics	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, Linux	
	Ethernet	Not Available	
Network Control	Wireless Network	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 (CE/FCC), 2400-2483.5 MHz (SRRC) 5150-5850 MHz	
	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 The BirdsEve Camera com	nes standard with the H2S Laser Edition, or	can be added via the Laser Lingrade Kit	

¹The BirdsEye Camera comes standard with the H2S Laser Edition, or can be added via the Laser Upgrade Kit.

² To ensure the heatbed quickly reaches the needed temperature, the printer will maintain maximum power for about 3 minutes.

	Laser Type	Semiconductor Laser		
	Laser Wavelength	Engraving Laser: 455 nm ± 5 nm Blue Light Height Measuring Laser: 850 nm ± 5 nm Infrared Light		
	Laser Power	10 W ± 1 W		
	Laser Spot Dimension	0.03 * 0.14 mm ²		
	Working Temperature	0 °C−35 °C		
	Max Engraving Speed	400 mm/s		
	Max Cutting Thickness	5 mm (Basswood Plywood)		
	Laser Safety Class for Laser Module	Class 4		
10W Laser Module Spec	Overall Laser Safety Class*	Class 1		
	Engraving Area	H2D: 310 * 270 mm ² H2S: 310 * 260 mm ²		
	XY Positioning Method	Visual Positioning		
	XY Positioning Accuracy	< 0.3 mm		
	Z Height Measuring Method	Micro Lidar		
	Z Height Measuring Accuracy	± 0.1 mm		
	Flame Detection	Supported		
	Temperature Detection	Supported		
	Door Sensor	Supported		
	Laser Module Installation Detection	Supported		
	Safety Key	Included		
	Air Pump	Built-in; 30 kPa, 30 L/min		
	Ventilation Pipe Adapter Outer Diameter	100 mm		
	Supported Material Type	Wood, rubber, metal sheet, leather, dark acrylic, stone, and more		
Cutting Module Spec	Cutting Area	H2D: 300*285 mm ² H2S: 297.5*300 mm ²		
	Drawing Area	300*255 mm ²		
	Supported Pen Diameter	10.5 mm-12.5 mm		
	Cutting Mat Type	LightGrip and StrongGrip Cutting Mats		
	Blade Type	45°*0.35 mm		
	Blade Pressure Range	50 gf-600 gf		
	Max Cutting Thickness	0.5 mm		
	Blade and Pen Recognition	Supported		
	Cutting Mat Type Detection	Supported		
	Supported Image Type	Bitmap and Vector Images		
	Supported Material Type	Paper, PVC, vinyl, leather, and more		
When the printer's protection is complete and properly working, the printer and laser module work as a class 1 laser product.				

^{*} When the printer's protection is complete and properly working, the printer and laser module work as a class 1 laser product.