



# PRINTER COMPARISON GUIDE



A1 Mini



Buy A1 Mini

A1



Buy A1

PIP




Buy PIP

P1S



Buy P1S

X1 Carbon



Buy X1 Carbon

X1E



Buy X1E

H2D



Enquire

H2D Laser



Enquire

Body

Build Volume:	180 x 180 x 180mm <sup>3</sup>	256 x 256 x 256 mm <sup>3</sup>	256 x 256 x 256 mm <sup>3</sup>	256 x 256 x 256 mm <sup>3</sup>	256 x 256 x 256 mm <sup>3</sup>	256 x 256 x 256 mm <sup>3</sup>	300 x 320 x 325 mm <sup>3</sup>	300 x 320 x 325 mm <sup>3</sup>
Shell:	Steel + Extruded Aluminum	Steel + Extruded Aluminum	Printable	Plastic & Glass	Aluminum & Glass	Aluminum & Glass	Aluminum, Steel, Plastic & Glass	Aluminum, Steel, Plastic & Glass, Laser Safety Window
Dimensions:	347 x 315 x 36 mm <sup>3</sup>	385 x 410 x 430 mm <sup>3</sup>	386 x 389 x 458 mm <sup>3</sup>	389 x 389 x 458 mm <sup>3</sup>	389 x 389 x 458 mm <sup>3</sup>	389 x 389 x 682 mm <sup>3</sup>	492 x 514 x 626 mm <sup>3</sup>	492 x 514 x 626 mm <sup>3</sup>
Weight:	8.2 KG	11.7 KG	9.65 KG	12.95 KG	14.13 KG	16 KG	31 KG	31 KG

Toolhead

Extruder Gears:	Hardened Steel	Hardened Steel	Steel	Steel	Hardened Steel	Hardened Steel	Hardened Steel	Hardened Steel
Nozzle:	0.4mm Stainless Steel	0.4mm Stainless Steel	0.4mm Stainless Steel	0.4mm Stainless Steel	0.4mm Hardened Steel	0.4mm Hardened Steel	0.4mm Hardened Steel	0.4mm Hardened Steel
Max Hot End Temperature:	300 °C	300 °C	300 °C	300 °C	300 °C	320 °C	350 °C	350 °C

Speed


Max Speed of Toolhead:	500 mm/s	500 mm/s	500 mm/s	500 mm/s	500 mm/s	500 mm/s	1000 mm/s	1000 mm/s
Max Acceleration of Toolhead:	10 m/s <sup>2</sup>	10 m/s <sup>2</sup>	20 m/s <sup>2</sup>	20 m/s <sup>2</sup>	20 m/s <sup>2</sup>	20 m/s <sup>2</sup>	20 m/s <sup>2</sup>	20 m/s <sup>2</sup>

Build Plate

Max Build Plate Temperature:	80 °C Bambu	100 °C	100 °C	100 °C	110 °C @220 V, 120 °C @110 V	110 °C @220 V, 120 °C @110 V	120 °C	120 °C
Included Build Plate:	Textured PEI Plate	Bambu Textured PEI Plate	Bambu Textured PEI Plate	Bambu Textured PEI Plate	Bambu Cool Plate or Bambu Engineering Plate	Bambu Smooth PEI Plate	Bambu Textured PEI Plate or Bambu Smooth PEI Plate	Bambu Textured PEI Plate or Bambu Smooth PEI Plate

Cooling

Part Cooling Fan:	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control
Hot End Fan:	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control
MC Board Cooling Fan:	Closed Loop Control	No	Optional	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control
Chamber Temperature Regulator Fan:	N/A	N/A	Optional	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control
Auxiliary Part Cooling Fan:	N/A	N/A	Optional	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control	Closed Loop Control
Air Filter:	N/A	N/A	Optional	Activated Carbon Filter	Activated Carbon Filter	Hepa Filter	G3, H12, Coconut Shell Carbon Filter, VOC & Maticulate Matter Filtration	G3, H12, Coconut Shell Carbon Filter, VOC & Maticulate Matter Filtration, Air Assist Pump

A1 Mini	A1	PIP	P1S	X1 Carbon	X1E	H2D	H2D Laser
							
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## Supported Filament

PLA, PETG, TPU, PVA:	Ideal	Ideal	Ideal	Ideal	Ideal	Optimal	Optimal	ptimal
ABS, ASA:	No Recommended	No Recommended	Capable	Capable	Ideal	Superior	Superior	Superior
PA, PC, PET:	Not Recommended	Not Recommended	Capable	Capable	Ideal	Superior	Superior	Superior
Carbon/Glass Fiber Reinforced Polymer:	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Ideal	Superior	Superior	Superior

## Sensors

Filament Run Out Sensor:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Filament Odometry:	Yes	Yes	Yes (With AMS)	Yes (With AMS)	Yes (With AMS)	Yes (With AMS)	Yes (With AMS)	Yes (With AMS)
Power Loss Recover:	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bambu Micro Lidar:	No	No	No	No	Yes	Yes	Yes	Yes
Chamber Monitoring Camera:	Low Rate Camera (up to 1080P)	Low Rate Camera (up to 1080P)	Low Rate Camera (1280 x 720)	Low Rate Camera (1280 x 720)	Low Rate Camera (1920 x 1080)	Low Rate Camera (1920 x 1080)	Low Rate Camera (1920 x 1080)	Low Rate Camera (1920 x 1080)
	Timelapse Supported	Timelapse Supported	Timelapse Supported	Timelapse Supported	Timelapse Supported	Timelapse Supported	Timelapse Supported	Timelapse Supported  BirdsEye Camera: 3264 x 2448

## Electronics

Display:	2.4-inch 320 x 240 IPS Touch Screen	3.5-inch 320 x 240 IPS Touch Screen	2.7-inch 192 x 64 Screen	2.7-inch 192 x 64 Screen	5-inch 1280 x 720 Touch Screen	5-inch 1280 x 720 Touch Screen	55-inch 720 x 1280 Touch Screen	55-inch 720 x 1280 Touch Screen
Connectivity:	Wi-Fi, Bambu-Bus	Wi-Fi, Bambu-Bus	Wi-Fi, Bluetooth, Bambu-Bus	Wi-Fi, Bluetooth, Bambu-Bus	Wi-Fi, Bambu-Bus	Wi-Fi, Bambu-Bus, Ethernet	Wifi (5G&2.4G), Bambu-Bus	Wifi (5G&2.4G), Bambu-Bus
Storage:	Micro SD Card	Micro SD Card	Micro SD Card	Micro SD Card	4GB eMMC and Micro SD Card	4GB eMMC and Micro SD Card	Built-in 8 GB EMMC and USB Port	Built-in 8 GB EMMC and USB Port
Control Interface:	Button, APP, PC Application	Button, APP, PC Application	Button, APP, PC Application	Button, APP, PC Application	Button, APP, PC Application	Button, APP, PC Application	Touchscreen, Mobile App, PC App	Touchscreen, Mobile App, PC App
Neural-Network Processing Unit:	N/A	N/A	N/A	N/A	2 Tops	2 Tops	2 Tops	2 Tops