PRINTER COMPARISON GUIDE

ADDITIVE

	A1 Mini	**A1**	**P1P**	**P1S**	**X1 Carbon**	**X1E**
	Buy A1 Mini	Buy A1	Buy P1P	Buy P1S	Buy X1C	Buy X1E

Body

	A1 Mini	**A1**	**P1P**	**P1S**	**X1 Carbon**	**X1E**
Build Volume:	180 x 180 x 180mm³	256 x 256 x 256 mm³	256 x 256 x 256 mm³	256 x 256 x 256 mm³	256 x 256 x 256 mm³	256 x 256 x 256 mm³
Shell:	Steel + Extruded Aluminum	Steel + Extruded Aluminum	Printable	Plastic & Glass	Aluminum & Glass	Aluminum & Glass
Dimensions:	347 x 315 x 36 mm³	385 x 410 x 430 mm³	386 x 389 x 458 mm³	389 x 389 x 458 mm³	389 x 389 x 458 mm³	389 x 389 x 682 mm³
Weight:	8.2 KG	11.7 KG	9.65 KG	12.95 KG	14.13 KG	16 KG

Toolhead

	A1 Mini	**A1**	**P1P**	**P1S**	**X1 Carbon**	**X1E**
Extruder Gears:	Hardened Steel	Hardened Steel	Steel	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

Build Plate

	A1 Mini	**A1**	**P1P**	**P1S**	**X1 Carbon**	**X1E**
Max Build Plate Temperature:	80 ▯	100 ▯	100 ▯	100 ▯	110▯ @220 V, 120▯ @110 V	110▯ @220 V, 120▯ @110 V
Included Build Plate:	Bambu 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

Cooling

	A1 Mini	**A1**	**P1P**	**P1S**	**X1 Carbon**	**X1E**
Part Cooling Fan:	Closed Loop Control	Closed Loop Control	Part Cooling Fan: Closed Loop Control	Part Cooling Fan: Closed Loop Control	Part Cooling Fan: Closed Loop Control	Part Cooling Fan: Closed Loop Control
Hot End Fan:	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	Closed Loop Control	Optional	Closed Loop Control	Closed Loop Control	Closed Loop Control
Chamber Temperature Regulator Fan:	N/A	No	Optional	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
Air Filter:	N/A	N/A	Optional	Activated Carbon Filter	Activated Carbon Filter	Hepa Filter

	A1 Mini	A1	P1P	P1S	X1 Carbon	X1E

Supported Filament

	A1 Mini	A1	P1P	P1S	X1 Carbon	X1E
PLA, PETG, TPU, PVA:	Ideal	Ideal	Ideal	Ideal	Ideal	Optimal
ABS, ASA:	Not Recommended	Not Recommended	Capable	Capable	Ideal	Superior
PA, PC, PET:	Not Recommended	Not Recommended	Capable	Capable	Ideal	Superior
Carbon/Glass Fiber Reinforced Polymer:	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Ideal	Superior

Sensors

	A1 Mini	A1	P1P	P1S	X1 Carbon	X1E
Filament Run Out Sensor:	Yes	Yes	Yes	Yes	Yes	Yes
Filament Odemetry:	Yes	Yes	Yes (With AMS)	Yes (With AMS)	Yes (With AMS)	Yes (With AMS)
Power Loss Recover:	Yes	Yes	Yes	Yes	Yes	Yes
Bambu Micro Lidar:	No	No	No	No	Yes	Yes
Chamber Monitoring Camera:	Low Rate Camera (up to 1080P) Timelapse Supported	Low Rate Camera (up to 1080P) Timelapse Supported	Low Rate Camera 1280 x 720) Timelapse Supported	Low Rate Camera 1280 x 720) Timelapse Supported	1920x 1080 Timelapse Supported	1920x 1080 Timelapse Supported

Electronics

	A1 Mini	A1	P1P	P1S	X1 Carbon	X1E
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
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
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
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
Neural-Network Processing Unit:	N/A	N/A	N/A	N/A	2 Tops	2 Tops