

Aion 500 MK2

Technical Specifications

Physical Dimensions(DWH)	955mmx 1040mm x 925mm (37.6in x 40.99in x 36.41in)
Input Power**	100-120VAC/180-250VAC
Power Consumption	1750W Max
Input Frequency	47-63Hz
Build Volume	125litre (33.02gallon)
Maximum Printable Area (Dual extruder)	500mm x 500mm x 500mm (19.68in x 19.68in x 19.68in)
Heated Bed	High performance heated bed 150W 230V
Filament Diameter	1.75mm (0.06in)
Extruder Diameter	0.6mm/0.5mm/0.4mm(0.019in/0.15)
Extruder Temperature	350 ⁰ C
Number of Extruders	2
Model Of Extruder	Direct Drive all metal liquid cooled extruder
Recommended Materials	ABS, PLA, HIPS, PETG, Carbon fibre, AFPM special material, Polycarbonate, AFPM Carbon fibre
Material Support	Non hygroscopic HIPS
Maximum Print Speed	200mm/s
Build Rate (Material Deposition Rate)	30-50 cm ³ /hour
Layer Precision	0.1-0.25mm (0.35mm possible for 0.5mm Nozzle)
Heat Bed	Yes
Bed Temperature	90 ⁰ C max
Auto Bed Leveling	Yes
LCD Support	Yes

Connectivity	USB, SD card, Wifi & Ethernet.
Print Monitoring System	In build camera with wifi connectivity
Software Supported	Repetier, Cura, Custom Software for DBZ, Kislicer
Stepper Motor	1.8 Degree steps angle With 1:256 micro stepping
Positioning Accuracy	20 microns
Enclosure	Power coated 5mm sheet metal body
Total Machine Weight	250Kg
Run Time Change Setting Option	Yes
Pause Print Option	Semi-automatic-Yes (pause and resume even after extruder movement)
Active Carbon Filter	Yes
Filaments Sensor	YES. (filament flow notification)
Layer Thickness	Layer thickness range:range1:0.1-0.15, range2:0.15-0.25, range3:0.25-0.3
Multiple User Id	YES. Multiple secure access to machine control software
XY Precision	Positional accuracy 16 micron using HIWIN High Precision Linear Guide Rails.
Z Precision	Patented precision Z axis mechanism with electromechanically synchronized four ball screws and moving XY gantry
Supporting System	Windows and Mac
Sd Standalone Format	.gcode
Noise Level	Less than 70db
Training	Covered under 3 days free onsite training.