ZMORPH i500
Technical Specification

WEIGHT AND PHYSICAL DIMENSIONS

3D printer	703 x 507 x 1075 [mm]
Transport package dimensions	800 x 600 x 1200 [mm]
Transport weight	~ 70 [kg] *
3D printer weight	~ 55 [kg] *

3D PRINTING PARAMETERS

3D printing technology	FFF (Fused Filament Fabrication)
Toolhead	Single material 1.75 [mm], Dual material 1.75 [mm],
Layer resolution	0.05 - 0.4 [mm]
Maximum extruder temperature	300 [°C]
Work area (single material)	460 x 300 x 500 [mm]
Work area (dual material)	440 x 300 x 500 [mm]
Maximum bed temperature	130 [°C]
Minimum wall thickness	0.4 [mm]
Dimensional accuracy	+/- 0.2 [mm]
Work area leveling method	Semi-automatic
Material form	Spool, maximum fi300x100
Material diameter	1.75 [mm]
Nozzle diameter	0.4, 0.6, (0.8 - work in progress) [mm]
Support	Mechanically and chemically removed - printed with build or support material
Connectivity	USB (pendrive), Ethernet, WiFi
Available materials	PLA, ABS, PET, Nylon, PVA, ASA, TPE, PC/ABS, HIPS
Third-party materials	Supported
Work speed	10 - 110 [mm/s]
Travel speed	350 [mm/s]

TEMPERATURE PARAMETERS

Ambient operation temperature	15 - 30 [°C]
Storage temperature	-10 ~ 40 [°C]

ELECTRICAL PARAMETERS

Input current	110 [VAC] ~ 9-10 [A] 50/60 [Hz] 240 [VAC] ~ 5 [A] 50/60 [Hz]
Maximum power consumption	1000 [W]

SOFTWARE PARAMETERS

Type of software	Original, dedicated
Supported formats	STL, OBJ

AIR FILTRATION PARAMETERS

Output filter type	HEPA/Carbon
Input filter type	G4 (anti-dust)
Ventilation power	3.1 [W]
Filter dimensions	80 x 80 x 25 [mm]
Fitration control	Temperature

OTHER

Toolhead changing system	Nozzle Lifting System
Nozzle Waste Remover	Brass brushes and Teflon scrapers
Filament loading	Automatic Filament Loading System
End of material detection	Filament sensors + RFID tags**

* value will be specified

** RFID tags will be implemented after launch