

ZEUS- Technical Specifications



PRINTING

PRINT TECHNOLOGY

Fused Filament Fabrication (FFF)

BUILD VOLUME

20.4 L x 15.3 W x 14.5 H cm | 4526 cm³

[8.0 x 6.0 x 5.7 inch | 274 inch³]

LAYER RESOLUTION

80 µm [0.0031 inch]

FILAMENT DIAMETER

1.75 mm [0.069 inch]

FILAMENT COMPATIBILITY

AIO Robotics | 3rd party filament

NOZZLE DIAMETER

0.35 mm [0.014 inch]

PRINT FILE TYPE

.STL | .AIO

XYZ POSITIONING PRECISION

X: 12.7 µm [0.0005 inch]

Y: 2.8 µm | [0.0001 inch]

Z: 2.4 µm [0.0001 inch]

HARDWARE COMPONENTS

CAMERA

2-MP Full-HD camera CMOS image sensor with 12 white LED flashlights

TOUCHSCREEN

7" multi-touch capacitive color screen

SCANNING

SCAN TECHNOLOGY

Swiping Laser Triangulation

SCAN VOLUME

22.9 (diameter) x 12.7 cm (H)

[9.0 X 5.0 inch]

DIMENSIONAL ACCURACY

± 250 µm [± 0.0098 inch]

DETAIL RESOLUTION

125 µm [0.0049 inch]

TRIANGLES PER 3D Model

Approx. 500K

TURNTABLE RESOLUTION

76800 steps/rotation (with encoder)

SCAN LINES PER LASER SWIPE

1000+ laser lines

MAXIMUM WEIGHT ON TURNTABLE

2 kg [4.4 lbs]

SCAN SPEED

Approx. 12 minutes

TURNTABLE DRIVE SYSTEM

Anti-Vibration Drive Chain

EXPORTED FILE TYPE

.PLY | .OBJ | .STL | .AIO

INTEGRATED COMPUTER

CPU

Samsung Exynos4412 Prime Cortex-A9 Quad Core 1.7 GHz with 1 MB L2 cache

GPU (3D ACCELERATOR)

ARM Mali-400 Quad Core 440 MHz

MEMORY

LP-DDR2 RAM 2GB 8Gbit

ONBOARD STORAGE

8GB eMMC | 16 GB Micro-SD slot

MECHANICS

CONSTRUCTION

SECC sheet metal | powder-coated chassis

BUILD/SCAN SURFACE

(Removable) Glass with bounding adhesive

EXTRUDER HEAD

Hot swappable extruder head

SIZE & WEIGHT

PRODUCT DIMENSIONS

54.9 L x 37.7 W x 38.8 H cm

[21.6 x 14.8 x 15.3 inch]

PRODUCT WEIGHT

21 kg [44 lbs]

SHIPPING WEIGHT

25 kg [55 lbs]

SOFTWARE

SOFTWARE BUNDLE

Pre-installed ZEUS OS

AUTOMATION FEATURES

Auto-calibration probing mechanism

Copy: scan-to-print

Fax: ZEUS-to-ZEUS file transfer

OPERATING SYSTEMS

All (Web-based): Windows | Mac OS |

Linux | iOS | Android

ELECTRICAL

POWER REQUIREMENTS

100-240 V, 50-60 Hz, 150 W

CONNECTIVITY

Thumb Drive, USB, Ethernet, Wi-Fi

SAFETY

LASER LIGHT SAFETY

Eye-safe green line laser (Class 2)

Closed lid sensor

EXTRUDER SAFETY FEATURE

Dual Thermal Extruder Sensor

Cooling-Fan Monitoring

Heat resistant material