



Axtroid

Akaar E1

YOUR GATEWAY TO INNOVATION IN CLASSROOMS AND MAKERSPACES



Akaar E1 is a cutting-edge FFF (Fused Filament Fabrication) 3D printer designed for both educational environments and enthusiastic makers.

**Experience unparalleled speed, precision and ease of use,
bringing your ideas to life faster than ever before.**



Akaar E1

KEY FEATURES

- Blazing Fast Printing**
 Achieve incredible speeds of up to 700mm/s in fast mode and 350mm/s in normal mode.
- Generous Build Volume**
 Create large-scale projects with a spacious build area of 256 x 256 x 256 mm.
- Effortless Levelling**
 Benefit from automatic Z-tilt levelling with bed mesh for perfect first layers every time.
- Precision Engineering**
 Built with a ball bearing guide rail for high precision and exceptional durability.
- Consistent Accuracy**
 Enjoy reliable results with automatic calibration, ensuring repeatable and accurate prints.
- High-Temperature Capability**
 The nozzle heats to 300°C in just 30 seconds, supporting a wide range of materials.
- Superior Extrusion**
 The direct drive extruder offers faster retraction and better control, especially with flexible filaments.
- Intuitive Control**
 Easily navigate and operate the printer using the vibrant 5 inch touchscreen.
- Seamless Connectivity**
 Send print jobs wirelessly with built-in Wi-Fi.
- Hassle-Free Part Removal**
 The double-sided flexible PEI build plate allows for easy removal of your printed parts.

TECHNICAL SPECIFICATIONS:

TECHNOLOGY	FUSED FILAMENT FABRICATION (FFF)
BUILD VOLUME	256 x 256 x 256 mm
MOTION STRUCTURE	CoreXY
No. of PRINT HEADS	1
EXTRUDER TECHNOLOGY	DIRECT DRIVE
FILAMENT DIAMETER	1.75 mm
NOZZLE DIAMETER	0.4 mm
MAX PRINT SPEED	500 mm/s
MAX PRINT ACCELERATION	20,000 mm/s ²
PRINT ACCURACY	± 0.1mm
MAX NOZZLE TEMPERATURE	300°C

MAX PRINT BED TEMPERATURE	100°C
PRINT BED LEVELING	36-POINT MESH BED AUTO LEVELING
PRINT PLATFORM	TEXTURED & SMOOTH REMOVABLE PEI SHEET
CONNECTIVITY	Wi-Fi, USB-C DRIVE, RJ45, TYPE C MODEM
POWER INPUT	230V/110V 350W
DISPLAY SCREEN	5-INCH IPS CAPACITIVE SCREEN TOUCH COLOR
SLICING SOFTWARE	OrcaSlicer, Cura, Slic3r, Simplify3D, PrusaSlicer
OPERATING SYSTEM	Windows, macOS, Linux
FIRMWARE	KLIPPER
PRINT FILE FORMAT	G-CODE
PRINT MATERIALS	PLA, PETG, ABS, ASA, TPU, PC, etc.

Ready to revolutionize your 3D printing experience? Learn more or contact us today!



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