



UltiMaker S6 Secure

USP25-MN, 61-237686-S

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Product data sheet



Built for mission-critical 3D printing. NATO-trusted. EU-made.

The UltiMaker S6 Secure continues the S series tradition of versatility and modularity. Specifically tailored for high-stakes defense applications where data security is mission-critical.

UltiMaker's proven performance is combined with hardened security and trusted EU manufacturing – supercharged by the Cheetah motion planner for up to 4× productivity. Backed by a unique 24-month warranty.

- ✓ **No connectivity. No risk. Full control:** Secure by design with factory-flashed firmware and tamper-resistant hardware, eliminating cloud exposure and easing IT security demands.
- ✓ **Rugged, portable, and easy to operate:** Delivers reliable, high-quality results even in tough conditions – built compact and durable for simple use and maintenance anywhere you need it.
- ✓ **Air-gapped, tamper-resistant, secure firmware:** Operates fully offline with USB-only access, or secure LAN networks, and sealed hardware – meeting NATO-aligned IT standards while avoiding vulnerabilities linked to connected device protocols.
- ✓ **Protects IP, data, and readiness:** Avoids foreign regulation risks. Stops hidden vulnerabilities. Keeps your operations secure and self-reliant.
- ✓ **Base or field ready:** Delivers full performance in on-site or remote production. No compromise on capability, wherever you are.
- ✓ **Mission-ready with proven performance:** Air-gapped printers built for critical operations with UltiMaker performance and the trusted capability of the S6.

The UltiMaker ecosystem offering



3D printers that simply work
Our award-winning 3D printers are robust, reliable, and easy to use. They deliver quality parts time and again. Designed and tested to run 24/7, they allow you to achieve the results you need more quickly and easily.



Software for Industry 4.0
Trusted by millions worldwide in 14 languages, UltiMaker Cura integrates with any workflow through UltiMaker Marketplace plugins. Scale production and digital distribution with UltiMaker Digital Factory.



Massive material selection
UltiMaker S series offers the widest material choice on the market. Through our Material Alliance, choose the perfect filament for your application – from advanced polymers to carbon fiber composites.



Success-oriented support
Wherever you are, UltiMaker support is within reach. Our global network of service partners provides professional installation, training, and maintenance – in your language and time zone.

UltiMaker S6 Secure specifications

Printer and printing properties	Technology	Fused deposition modeling (FDM)
	Print head	Dual-extrusion print head with a unique auto nozzle-lifting system, flood detection and inductive probing
	Feeder type	Dual gripper feeder with tension adjustment, release functionality and filament feed-rate control
	Motion planner	Smooth, precise prints with UltiMaker Cheetah – the only motion planner with jerk limitation, third-order continuity, and corner blending
	Filament diameter	2.85 mm
	Compatible materials	PLA, Tough PLA, PETG, ABS, PET CF, Nylon CF Slide, Nylon, CPE, CPE+, PC, TPU 95A, PVA, Breakaway; plus many third-party materials, including ASA and flame-retardant filaments for defense applications
	Compatible print cores	AA+0.4 (included). Supports CC+, BB, and DD (sold separately). Legacy AA and CC print cores work with pre-sliced print jobs
	Nozzle temperature	Up to 340°C (644 °F) supported with the CC+ print cores
	Dimensional accuracy	±0.15 mm ±0.15% feature nominal length. Typical accuracy may vary by geometry, material, and machine
	Build plate	Heated flexible PEI build plate (Up to 120 °C (248 °F))
	Build volume (XYZ)	330 × 240 × 300 mm (~13 × 9.4 × 11.8 in)
	Layer resolution	60 - 400 microns (depending on the print core nozzle size and print profile)
	Extrusion flow	Up to 35 mm ³ /s
	XY speed, acceleration, jerk	Up to 500 mm/s, up to 50,000 mm/s ² , up to 100,000,000 mm/s ³
	Material handling	Dual spool holder with NFC recognition
	Operating sound	< 50 dBA
	Display	Fast responsive color touchscreen
	System on module	ARM cortex quadcore at 1.8 GHz
	Real-time controller	600 MHz Arm-cortex M7
Connectivity (air-gapped)	LAN: Gigabit Ethernet. Optional: USB: 2.0	
Manufacturing details	Manufactured and electronics flashed in the EU	
Physical dimensions	Dimensions	495 × 585 × 780 mm (~19.5 × 23 × 30.7 in) (inc. Bowden tubes and spool holder)
	Shipping dimensions	600 × 640 × 670 mm (~23.6 × 25.2 × 26.4 in)
	Net weight	22 kg (48.5 lbs)
	Shipping weight	30 kg (66 lbs)
Ambient conditions	Operating temperature	15 °C - 32 °C (59 °F - 90 °F), 10 - 90 % RH non-condensing
	Non-operating temperature	0 °C - 32 °C (32 °F - 90 °F), 10 - 90 % RH non-condensing
Software	Print preparation	UltiMaker Cura 5.10.1 or newer, Cura cloud (no installation required)
	Printer management	UltiMaker Digital Factory
	Supported OS	Windows, MacOS, Linux
Safety and compliance	Certifications/DoC's	CE, UKCA, FCC, cDEKRAus, Safe unattended use. For a complete overview see our S series safety and compliance page
	Warranty period	24 months
	Support	Global support available for your success

Compatible accessories



AA+ and CC+ print cores
Quick-swap nozzles that enable higher flow rate.



Material Station
Simplified and automated material handling.



Air Manager
EPA filter removes up to 95% of UFPs.

