

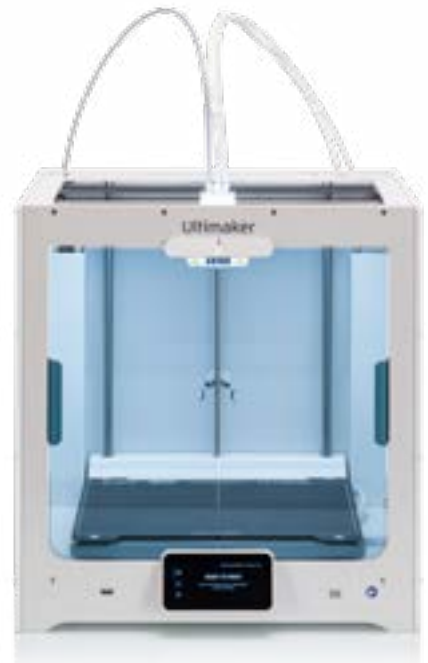


# UltiMaker S6 Secure

USP25-MN, 61-237686-S

NNO: 3612171314222

## 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

|                                        |                              |                                                                                                                                                                                                         |
|----------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Printer and printing properties</b> | 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 mm³/s                                                                                                                                                                                          |
|                                        | XY speed, acceleration, jerk | Up to 500 mm/s, up to 50,000 mm/s², up to 100,000,000 mm/s³                                                                                                                                             |
|                                        | 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                                                                                                                                                          |
| <b>Physical dimensions</b>             | 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)                                                                                                                                                                                          |
| <b>Ambient conditions</b>              | 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                                                                                                                                               |
| <b>Software</b>                        | Print preparation            | UltiMaker Cura 5.10.1 or newer, Cura cloud (no installation required)                                                                                                                                   |
|                                        | Printer management           | UltiMaker Digital Factory                                                                                                                                                                               |
|                                        | Supported OS                 | Windows, MacOS, Linux                                                                                                                                                                                   |
| <b>Safety and compliance</b>           | Certifications/DoC's         | CE, UKCA, FCC, cDEKRAus, Safe unattended use. For a complete overview see our S series <a href="#">safety and compliance page</a>                                                                       |
|                                        | 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.

