

2.2 Technical specifications

Parameter	Unit
Printer	Form Studio 1
Technology	Masked Stereolithography (MSLA)
Print Engine	Low Force Display™ (LFD)
Minimum dimensions for convenient access (W × D × H)	36 × 33 × 79 cm 14.2 × 13 × 31.1 in
Printer dimensions (W × D × H)	34.2 × 31.5 × 50.2 cm 13.5 × 12.4 × 19.8 in
Printer weight	14.3 kg 31.5 lb
Build volume (W × D × H)	200 × 125 × 235 mm 7.9 × 4.9 × 9.3 in Parts taller than 215 mm (8.5 in) require that the resin tank be removed with the build platform. When washing with Form Wash, the basket must be removed. When washing with Form Studio Wash+Cure, prints taller than 200 mm must be removed from the build platform before washing.
Layer thickness (Axis resolution)	25–300 microns 0.001–0.012 in
XY resolution	35 micron pixel size with pretuned anti-aliasing 0.0014 in
Optical power intensity	6 mW/cm ² delivered to the print plane
Optical wavelength	405 nm
Resin cartridges	1
Resin dispensing system	Automated
Biocompatible materials	No
Supports	Auto-generated, Light-touch removal
Operating environment	18–28 °C 64–82 °F Low ambient humidity
Operating temperature	Auto-heats resin to 25–45 °C (77–113 °F), depending on material
Temperature control	Direct resin heating
Power requirements	100–240 VAC Maximum 3 A 50/60 Hz 300 W
Connectivity	Wi-Fi: 2.4, 5 GHz Ethernet: 100 Mbit USB: 2.0
Wi-Fi connectivity	Protocol: IEEE 802.11 a/b/g/n/ac/ax Frequency: 2.4 GHz, 5 GHz Supported security: WPA/WPA2
Ethernet connectivity	RJ-45 Ethernet, 100BASE-TX LAN Port Connect with a shielded Ethernet cable (not included): minimum Cat5.

Parameter	Unit
USB connectivity	USB C port with a USB C-A cable
Printer control	Interactive touchscreen
Alerts	Touchscreen alerts SMS/email via Dashboard Speaker for audio alerts Mobile notifications via the Formlabs Form Mobile App
Camera	Integrated camera 1920 × 1080 resolution (2 MP)
Print preparation	PreForm desktop software
File type	STL, OBJ, 3MF, and other CAD file formats. See the PreForm download page for more information.