

3DUJ-553



Photorealistic full color 3D printer

20" x 20" x 12"

Photorealistic full color 3D printer

The 3DUJ-553 printer offers an unprecedented 3D printing experience with a number of enhancements to produce objects with high definition and fine detail, and in full color. Because of Mimaki's extensive experience in inkjet printing and based on a patent obtained by the company in 2009, the 3D printer uses a full-color UV LED-cure method with more than 10 million possible color combinations for photo-realistic output. Clear ink is available to create translucent objects. It uses a water-soluble support material that is easy to remove, maintaining fine details.

- More than 10 million possible color combinations
- 19 Micron minimum layer thickness
- Water soluble support material
- Clear ink for transparent and translucent effects
- 20 x 20 x 12 inch build area
- Dual UV-LED curing lamps
- True ICC color profile workflow

For best results, always use Mimaki original supplies

Build Area (W x D x H)	20 x 20 x 12 inches (508 x 508 x 305 mm)
Max. Build Weight	154.3 lbs (70 kg)
Color Range	More than 10 million
Print Mode / Resolution / Thickness	Fast / 300 dpi / 42 micron
	Standard / 600 dpi / 32 micron
	High Quality / 1270 dpi / 22 micron
	Highest Quality / 1270 dpi / 19 micron
Curing	Water-cooled LED-UV lamps x 2
File Formats	OBJ, STL, PLY, 3MF, WRL
Circulation	Internal print head ink circulation
Interface	Ethernet 1000 BASE-TX (Gigabit)
Safety standards	VCCI Class A / FCC CLASS A / ETL (UL60950 compliant)
	CE marking (EMC Directive, Low Voltage Directive) / CB certification / RoHS compliant / REACH
Operational environment	Temperature: 68 – 86 °F (20 – 30 °C)
	Humidity: 35 – 65% RH, non-condensing
	Accuracy guaranteed temp.: 68 – 77 °F (20 – 25 °C)
Power	Single-phase 100-240 VAC, ±10%, 50/60 Hz ±1 Hz x3 (Main unit 1 / Monitor 1 / External PC 1)
Power consumption	1,630W or less (Total)
Outer dimension (W x D x H)	88.6 x 59 x 61 inches (2250 x 1500 x 1550 mm)
Weight	1323 lbs (600 kg)

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Print size	X: 5cm Y: 50cm Z: 1cm = 250cm ³		
Layer thickness	42µm	32µm	22µm
Resolution	600x300x600	600x300x800	600x300x1,270
Print time	1:30 h	1:45 h	2:24 h

20" x 20" x 12"

Print size	X: 50cm Y: 50cm Z: 1cm = 2,500cm ³		
Layer thickness	42µm	32µm	20µm
Resolution	600x300x600	600x300x800	600x300x1,270
Print time	8:17 h	9:41 h	13:12 h

Please visit us at: www.mimakiusa.com

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Print speeds are based on factory tests. Total throughput depends upon front-end driver/RIP, file size, printing resolution, ink coverage, network speed, etc. For best performance, always use Mimaki original inks. Specifications subject to change without notice.

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