

3DUJ-553

PHOTOREALISTIC
FULL COLOR 3D PRINTER



Mimaki[®]
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The Mimaki **3DUJ-553** is the world's first 3D printer capable of producing more than 10 million unique colors in fine detail. It's perfect for applications where color accuracy and fine detail are critical. From prototyping to medical modeling, the 3DUJ-553 produces appearance models with unmatched photorealistic detail.

Color Control

By utilizing a user customizable ICC profile workflow, color control is both accurate and consistent. Custom profiles can be created with the Mimaki Profile Master 3 (MPM3) optional software with calibrated monitors for on screen soft-proofing. This ensures accurate color simulation before printing even begins, saving time and reducing waste.

Translucency with Clear Ink

Using clear ink adds an additional effect to 3D printed objects. The combination of color, white and transparent inks opens the door to producing objects with stunning transparent or translucent effects.

Opaque White Ink

Our white resin ink has a high opacity while maintaining a bright white point which is critical for accurate color reproduction. across a wide gamut.

Stable Production

Utilizing the Mimaki Circulation Technology (MCT), the 3DUJ-553 ink system circulates inks through the ink tanks, lines, and print heads to ensure that there are no air bubbles or settled pigments to inhibit clean and accurate jetting of ink.



Product Specifications			
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)		
Print size	X: 5cm Y: 50cm Z: 1cm = 250cm3		
Layer thickness	42µm	32µm	22µm
Resolution	600x300x600	600x300x800	600x300x1,270
Print time	1:30 h	1:45 h	2:24 h
Print size	X: 50cm Y: 50cm Z: 1cm = 2,500cm3		
Layer thickness	42µm	32µm	20µm
Resolution	600x300x600	600x300x800	600x300x1,270
Print time	8:17 h	9:41 h	13:12 h

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

