

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 / 42 micron |
| | Standard / 32 micron |
| | High Quality / 22 micron |
| | Color-in-Clear / 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 = 250cm ³ | | |
| 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 = 2,500cm ³ | | |
| Layer thickness | 42µm | 32µm | 22µm |
| Resolution | 600x300x600 | 600x300x800 | 600x300x1,270 |
| Print time | 8:17 h | 9:41 h | 13:12 h |

Please visit us at: www.mimakiusa.com

Mimaki USA, Inc.
150-A Satellite Blvd NE, Suwanee, GA 30024

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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