

# 3DUJ-553



Photorealistic full color 3D printer

## 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

20" x 20" x 12"

*For best results, always use Mimaki original supplies*

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

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

20" x 20" x 12"

|                        |                                               |             |               |
|------------------------|-----------------------------------------------|-------------|---------------|
| <b>Print size</b>      | X: 50cm Y: 50cm Z: 1cm = 2,500cm <sup>3</sup> |             |               |
| <b>Layer thickness</b> | 42µm                                          | 32µm        | 22µm          |
| <b>Resolution</b>      | 600x300x600                                   | 600x300x800 | 600x300x1,270 |
| <b>Print time</b>      | 8:17 h                                        | 9:41 h      | 13:12 h       |

Please visit us at: [www.mimakiusa.com](http://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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