

THE FUTURE IS IN
FULL COLOUR

Software

MIMAKI 3D LINK LAYOUT SOFTWARE

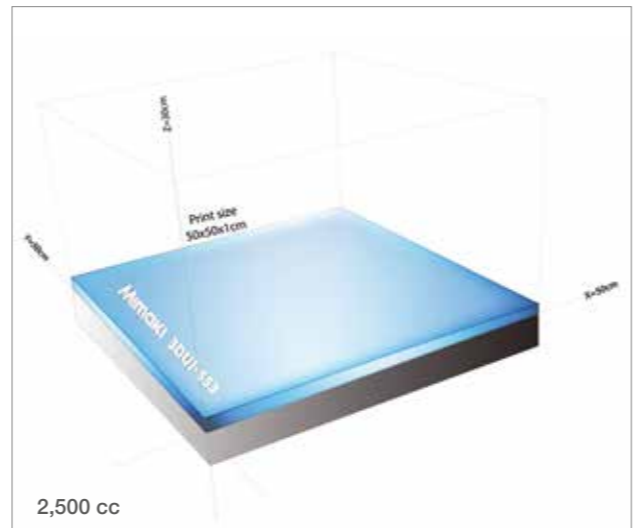
- 1 Load data (available formats – STL, OBJ, VRML, PLY, 3MF)
- 2 Rotate, zoom in / out, move and copy number indication for table layout
- 3 Select modelling mode and issue a modelling job to the Mimaki Printer Driver print control software incorporated into the 3DUJ-553

MIMAKI PRINTER DRIVER

- Print control software incorporated into the printer
- Easily operated via a large screen located on the printer
- Set and operate start of modelling, check print record, check nozzles and operate cleaning

PRINT SPEEDS

Print size X: 5cm Y: 50cm Z: 1cm = 250cm ³				Print size X: 50cm Y: 50cm Z: 1cm = 2,500cm ³			
Print mode	Fast	Standard	High Quality	Print mode	Fast	Standard	High Quality
Layer thickness	42µm	32µm	20µm	Layer thickness	42µm	32µm	20µm
Resolution	600x300x600	600x300x800	600x300x1,270	Resolution	600x300x600	600x300x800	600x300x1,270
Print time	1:30 h	1:45 h	2:24 h	Print time	8:17 h	9:41 h	13:12 h



Operation time before and after printing is not considered. Print time is calculated using 3D Link.

SPECIFICATIONS

Item	3DUJ-553	
Printhead	On-demand piezo head, 8-heads inline	
Ink type	MH-100 (modelling material ink), SW-100 (support material ink) C, M, Y, K, White, Clear, Support Material	
Ink supply	Tank Volume	C, M, Y, K W, Cl, SP
	Supply	C, M, Y, K W, Cl, SP
Available Layer Pitch	20µm (HQ), 32µm (Standard), 42µm (Fast)	
Maximum modelling size / weight	X: 508 mm / Y: 508 mm / Z: 305 mm / 70 kg or less	
Circulation function	Available (Head ink circulation)	
UV device	Water-cooled LED-UV irradiation device x 2 units (installed on the head carriage)	
Interface	Ethernet 1000BASE-TX	
Noise	Standby: 58 dB or less (FAST-A, 1m in four directions) / Continuous operation noise: 65 dB or less / Intermittent operation noise: 70 dB or less	
Power	Single Phase AC100-120V / 220-240V ±10% 50/60Hz ±1Hz	
Dimensions (W x D x H)	2,250mm x 1,500mm x 1,550mm	
Weight	600kg	
Software	Mimaki 3DLink, Mimaki Printer Driver	

SUPPLIES

Product Name	Item Code	Remarks
MH-100	Cyan	MH100-C-BA
	Magenta	MH100-M-BA
	Yellow	MH100-Y-BA
	Black	MH100-K-BA
	White	MH100-W-BD
	Clear	MH100-CL-BD
SW-100	Support material	SW100-Z-BD

OPTIONS

Item	Item Code	Remarks
MPM+i1 Pro Set	MPM3+i1	Colour management software and colorimeter

• Some of the samples in this folder are artificial renderings • Specifications, design and dimensions stated in this folder may be subject to change without notice for technical improvements, etc. • The corporate and merchandise names written on this folder are the trademark of the respective corporations • Inkjet printers print using extreme fine dots, so colours may vary after replacement of the printing heads, also note that if using multiple printer units, colours could vary slightly from one unit to other unit due to slight individual differences • Compositor's errors reserved

UV Curable Inkjet System 3D Printer 3DUJ-553



THE WORLD'S FIRST 3D
INKJET PRINTER WITH OVER
10 MILLION COLOURS

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Mimaki

Print with over 10 million colours

THE MIMAKI 3DUJ-553 OFFERS THE WORLD'S FIRST 3D MODELLING WITH OVER 10 MILLION DIFFERENT COLOURS, COVERING APPROXIMATELY 84% OF FOGRA39L AND 90% OF SWOP COLOUR GAMUT. WITH LAYER THICKNESS AS FINE AS 20µm, THE MACHINE PRODUCES 3D MODELS WITH SMOOTH SURFACES AND IMPRESSIVE DETAILS.

PHOTO-REALISTIC COLOUR ACCURACY

Mimaki's 3D Link software uses an output ICC profile to print highly accurate colours. At the same time, designers can use this ICC profile in Photoshop's proofing environment. The printed output colours are immediately simulated on screen and colour adjustment is easy, saving time and money avoiding test prints.

MORE POSSIBILITIES WITH CLEAR INK

In addition to creating transparent 3D objects, clear ink can be mixed with coloured inks to add transparency to the models, expanding the design possibilities of 3DUJ-553 even further.

WATER-SOLUBLE SUPPORT MATERIAL

The support material can be easily removed by placing the object in water, eliminating the manual process of cutting tags or support structures and the risk of damaging the model. The removal process can be sped up by warming the water up to 35°C, creating a water stream in the tank, or simply using an ultrasonic water tank.



Powerful 3D printing feature set

UNIQUE FEATURES OF THE MIMAKI 3DUJ-553 ENABLE CREATIVE AND DURABLE REALISATION OF OBJECTS UP TO 50 X 50 X 30CM

INNOVATIVE MODELLING MATERIAL

The Mimaki 3DUJ-553 uses pigmented photo-polymer resin as modelling material, with similar strength to ABS plastic. The material is also water resistant, so even though a printed model is placed in water to remove the support material, neither discolouring nor damage will occur.

POST-PROCESSING POSSIBILITIES

Further post-processing possibilities include overcoating for better weather resistance, polishing and overpainting, which can be done immediately after the modelling process is complete.

LARGE MAXIMUM BUILD SIZE

At approximately 50 x 50 x 30cm (W x D x H), the 3DUJ-553 features a larger maximum build size than most comparable 3D printers.

PROVEN UV CURABLE INKJET SYSTEM

In UV curable inkjet technology, the printer jets successive layers of ink until the object is formed, while the UV light source hardens or cures the ink after each printed layer.

LAYERING AND COLOURING METHOD

Modelling is done by simultaneously using ink and support material to print sliced data of 3D objects.

HIGH UPTIME AND RELIABLE SUPPORT

As a leading manufacturer of wide-format inkjet printers for more than four decades, Mimaki brings its proven proprietary technology and strong technical background to the 3D market. With an extensive commitment to R&D and a vast global network of long-established partners, Mimaki ensures each customer is provided with robust technology that delivers high machine uptime, matched with equally high levels of support.

UV Curable Inkjet System 3D Printer

3DUJ-553



A BRAND-NEW APPROACH TO 3D PRINTING

The Mimaki 3DUJ-553 is the world's first 3D printer with over 10 million colours, enabling the production of 3D objects, eliminating time-consuming finishing and the risk of damaging small detailed parts.



Core Tech delivers unbeatable technology

MIMAKI'S CORE TECHNOLOGIES DELIVER AN UNBEATABLE COMBINATION OF STABLE PRODUCTION AND CUTTING-EDGE IMAGING QUALITY. INCORPORATING INNOVATIVE PROPRIETARY TECHNOLOGY, CORE TECH OFFERS SIGNIFICANT ADVANTAGES FOR PRINT OPERATORS.

STABLE PRODUCTION



NCU
Nozzle Check Unit
automatically checks
nozzle status and
executes cleaning
cycle when required



MCT
Mimaki Circulation
Technology
periodically cycles
inks to prevent
pigment deposition



EVENT MAIL
sends printer status
to a mobile via the
Internet. Together with
the built-in camera,
remote monitoring can
be easily done to avoid
any print error

HIGH IMAGE QUALITY



VARIABLE DOT
Technology
delivers high density
print by removing the
gap between dots



WCT
Waveform Control
Technology
ensures high quality
output by jetting
almost perfect round
ink droplets

Prototypes | Industrial Manufacturing
Architectural Models | Figurines
Detailed Presentation Models | Toys
3D Art | Accessories...

