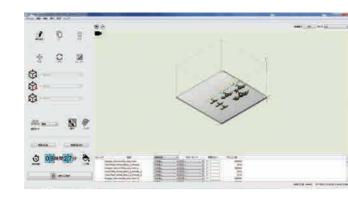


#### Software (Bundled)

■ Layout software [Mimaki 3D Link]



It is for layouting a job data of 3D print to transmit to the printer.

#### Procedure

#### 1. Data loading

- Available format: STL, OBJ, VRML, PLY, 3MF
- 2. Rotation, Zoom-in/out, move, and copy number indication of data for layouting on the table
- 3. Select modeling mode and issue a modeling job to [Mimaki Printer Driver] of print control software incorporated in the printer
- \*1 Modeling order by clear ink is available, too.
- \*2 Estimation function is for calculation of [modeling time] and [ink consumption]. \*3 Max. 20 units of printer are connectable.

#### Specifications

Item		3DUJ-553		
Modeling		UV curable inkjet		
Available color number		Full color / More than 10 million different colors		
Print head		On-demand piezoelectric print head 8 head inline		
Ink	Туре	Modeling ink MH-100 (C,M,Y,K, White, Clear)		
		Support material ink SW-100		
	Tank volume	C,M,Y,K:3L		
		White, Clear, Support material :5L		
	Supply style	C,M,Y,K:1L bottle		
		White, Clear, Support material :4.8L bottle		
Available modeling area (WxLxH)		508×508×305mm (20x20x12in)		
Load capacity	y (Max. model weight)	70 kg (154 lb) or less		
(Including support materials) *1				
Minimum layer pitch		20 µm		
3D data format		STL,OBJ,VRML,PLY,3MF		
Software (Standard accessories)		Layout software [Mimaki 3D Link]		
Interface		Ethernet 1000BASE-TX		
Power		Single-phase 100-240 VAC, ±10%, 50/60 Hz±1 Hz ×3		
		(Main unit 1/ Monitor 1 / External PC 1)		
Power consumption		Printer	1300W or less	
		External PC	300W or less	
		Touch panel	30W or less	
		VCCI Class A/FCC Class A/ Compliant with UL60950, ETL /		
Safety sta	andard	CE Marking (EMC, Low Voltage Directive) /		
		CB Report/ RoHS/REACH		
Installation environment		Usage temperature range	15 °C to 35 °C (59°F to 95°F)	
		Relative humidity	35 to 60% Rh (No condensation)	
		Recommended operational temperature range	20°C to 25°C (68°F to 77°F)	
		Dust	Places without mine dust (Dust amount 0.15mg/m³ or less) *2	
Outside dimensions (W×D×H)		2,250×1,500×1,550mm (88.6x59.1x61.0in)		
Weight		Weight 600 kg (1,322.8 lb.)		
	n modeling size should	be within the available modeling area and below	v the max, model weight.	

\*2: 0.15mg/m³ or less...The numerical value of the dust quantity equivalent to the office specified by the Building Standards Act of Japan.

■ [Mimaki Printer Driver], Print control software incorporated in the printer

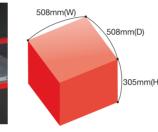


Useful operability by a large panel of printer

Setting and operation of start modeling, check of print record,
setting of nozzle check and cleaning etc. are possible.

#### Available modeling area





#### Supplies

Product name		Item code	Remarks
	Cyan	MH100-C-BA	1L bottle
	Magenta	MH100-M-BA	
MH-100	Yellow	MH100-Y-BA	
IVIII-100	Black	MH100-K-BA	
	White	MH100-W-BD	
	Clear	MH100-CL-BD	4.8L bottle
SW-100 Support material		SW100-Z-BD	

#### Options

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

#### ⚠ Precautions for 3D objects

•Please make sure to execute an advanced evaluation regarding the physical property (strength, weather resistance safety etc.) for estimated applications.

Depending on application, a post-processing might be necessary such as top coating or wiping by ethanol after remova

#### ⚠ Safety notice

Ultraviolet (UV) irradiation equipment is mounted on this product. You are dealing with UV light sources that may harr your health. Please follow below guidelines strictly.

\*Do not look directly into the UV light source nor place your hand, or expose your skin directly to the UV light source. 
Please make sure the room is well ventilated due to smells partially accompanying with 3D modeling. 
Please use the attached goggles and globes when taking out an object or taking off support materials after modeling. 
In addition, please be sure to read the instructions and guidelines of the manual carefully to follow.

Some of samples in this catalogue are artificial renderings. Specifications, design and dimensions stated in this catalogue may be subject to change without notice for technical improvements etc. The corporate names and merchandise names written in this catalogue are the trademark or registered trademark of the respective corporations. Inkjet printers print extremely fine dots, so colors may very slightly vary after replacement of the printing heads. Also note that if using multiple printer units, colors could vary slightly from one unit to other due to slight individual differences. The specifications described in this catalog are as of May 2019.

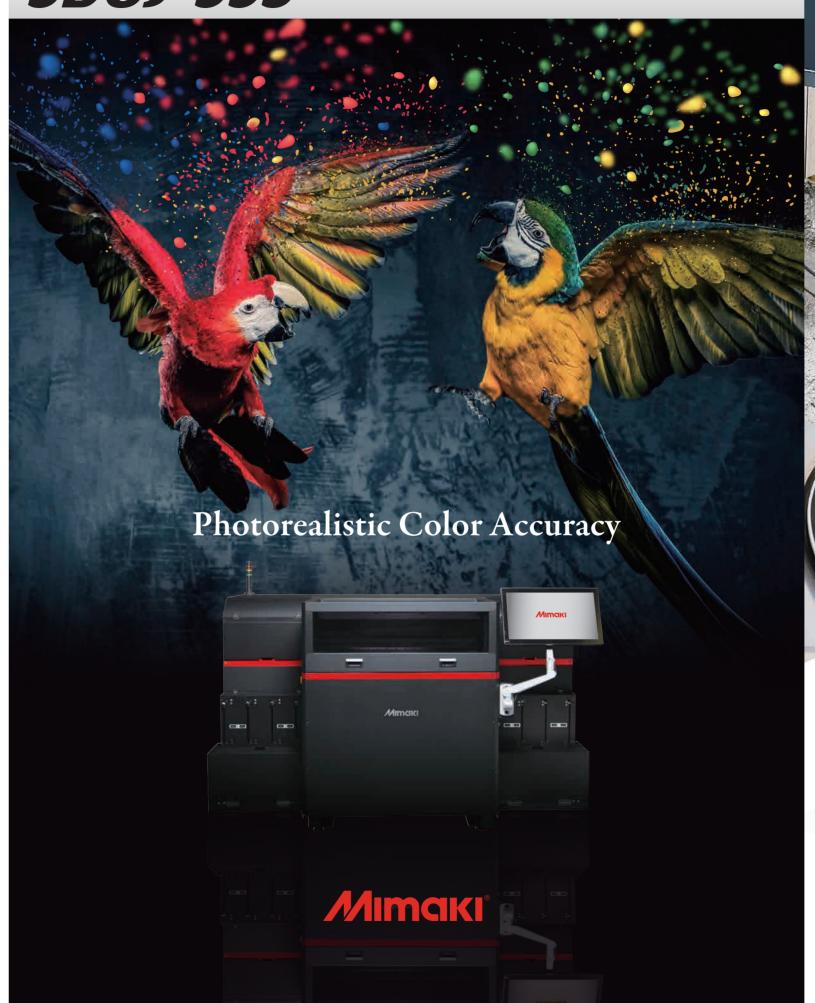


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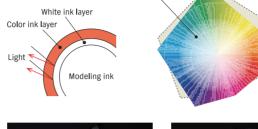




# The world's first 3D modeling by over 10,000,000 different full colors

# Covering the color gamut of 84% of FOGRA39L and 90% of SWOP

Modeling by color ink (CMYK,White,Clear) can achieve 84% of FOGRA39L and 90% of SWOP gamut. Modeling by color ink with high transparency and light reflecting on the surface of white ink layer, a fine color of object with essential beauty of real ink color is presented.



#### Broadening designs with clear ink

In addition to the transparency by clear ink, the combination of clear ink and color ink can express the colored transparency. Clear ink can give a different look when lighted from the inside of object. The combination of clear and color ink will broaden designs.





#### The world's first!

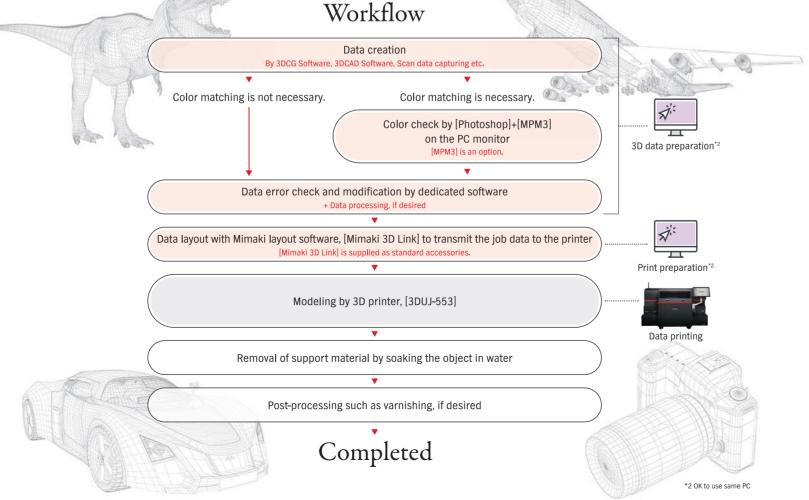
#### Enhancing color reproduction with color profile

Color profile utilization is the world's first method \*1 among the inkjet system 3D printers. Implementing the color simulate profile created by MPM3(Option: Color management software) to Adobe Photoshop, the color to be printed is checked on the PC monitor. It is possible to get closer between the color of image on the PC and the object. It is to shorten color adjustment time.



\*1 Survey as of August 2017 by Mimaki Engineering

# UV curable inkjet system is applied. UV curing ink gets hardening by irradiation of UV (Ultra Violet) light. Mimaki 3D printer applied the modeling method by accumulation of printed and cured ink layer by layer Roller UV Print head UV Print head UV Print head UV Print head UV LED PRINT head UV L



## Modeling quality with high definition

eautiful modeling object by Mimaki technology only

High definition print technology Mimaki 3D printer's precise ink droplet placement as aimed is by our original wave form control and high precision ink discharging technology, amassed in the development of inkjet printer for professionals with their strict requirements of high quality image. This excellent droplet precision can deliver modeling with elaborate design.

Variable dot function
contains to discharge 3 types dot size and
selects always the optimal size. This specified
function enables to print a beautiful gradation of
less granularity in extremely high accurate full
color





## Four advantages of modeling

Broadening applications with post-processing





Acrylic resin is compounded in the ink corresponding same strength with ABS.



It has the strength to bear 5kg loading weight in spite of drawing with



Overcoating is possible.
Overcoating can make smoother surface and upgrade weather resis-

wet with water, no

discoloring, neither



#### Network connection

Easy to increase to connect new printers

#### Simple management of systems by

**Ethernet** Available simply to connect layouting PC and main unit with Ethernet. Max. 20 units of 3D printer can be connected to one layout PC. It is possible to upgrade the latest version of software thru internet.





#### Water soluble support material Beautiful finish with very simple operation

Water soluble support material is applied. Support material can be washed away by placing in water instead of scratching off. Even an intricate design, support material can be taken-off easily without damage.

#### UV LED is applied as curing light source.

[3DUJ-553] applies UV ink curing by irradiation of UV (UItra Violet). The UV LED of curing source exerts less heat effects to object and no loss time of starting light. It saves running cost with long life and power saving.





# Inner camera to watch modeling process [Inner camera] is mounted for 3D printer operation and modeling process check from remote area. It allows constant check to minimize the loss of print error.

Subtank



Head ink circulation mechanisi



## Stable production by two functions.

Production efficienc

#### Equipment of ink circulation head for reducing nozzle missing It is the world's

first equipment \*3 of the ink circulation print head as 3D inkjet printer. This print head can circulate the ink of head to prevent the sedimentation of pigment to assure the stable ink discharging. It also eliminates air bubbles causing nozzle missing to maintain the optimal status of ink jetting.

# [NCU (Nozzle Check Unit)] for self-recovery of automatic detection of nozzle missing The world's first equipment \*3 of [NCU] as 3D printer function is for auto detection of nozzle status by

function is for auto detection of nozzle status by infrared radiation sensor. When nozzle missing is detected, auto clearing starts to solve it. Detection frequency can be set per data or by time. It prevents modeling loss after detection of nozzle missing.

