



# HIGH RESOLUTION UV INKJET PRINTER

Suitable for Industry 4.0 and intelligent manufacturing



13.3-inch touch screen / industrial Android system / 300 to 2400DPI resolution  
54MM large-sized printing / original imported high-resolution industrial head



## ▶ CONTROL SYSTEM

Rich software and hardware interfaces: encoder, sensor, curing lamp, USB, Provide API documentation for the network interface. Supports up to 24 nozzles.

- Industrial grade modular ink path, continuous negative pressure ink supply is stable and reliable.
- Ultra high speed printing: up to 330 meters (at low resolution).
- Imported environmentally friendly UV ink that meets VOC standards and is acid, alkali, ketone, and alcohol resistant for wiping.
- Precise negative pressure control: accuracy can reach 0.01.



## ▶ EASY TO OPERATE SOFTWARE INTERFACE

13.3-inch industrial grade Android system, rich in features and more stable. Intelligent software system, stable and reliable. Supports hundreds of fonts, various one-dimensional barcodes, two-dimensional barcodes, supports importing JPG, BMP, PNG, TIF images, PDF documents, Excel variable data document printing, with more powerful functions.



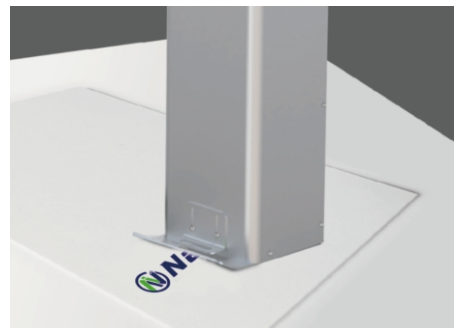
## ▶ PIJ NOZZLE

- Industrial grade PIJ nozzle: imported from Japan with a lifespan of 30 billion printing cycles.
- High resolution: N5 600DPI (up to 2800DPI vertically).
- N3L 300DP | (up to 1200DPI vertically).
- Large size: unlimited length, single head height can reach 54mm/53.7mm.



## ▶ THE PRINTING DISTANCE CAN REACH 2CM

- Innovative software algorithms
- High quality nozzles
- Precision ink path control



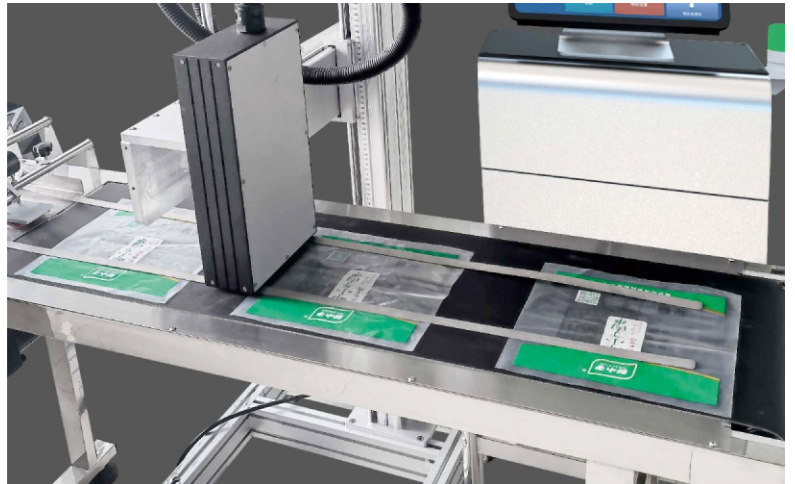
**► HORIZONTAL PRINTING**

N series high-resolution UV inkjet printer  
Split type ink road  
Negative pressure/siphon ink path  
console

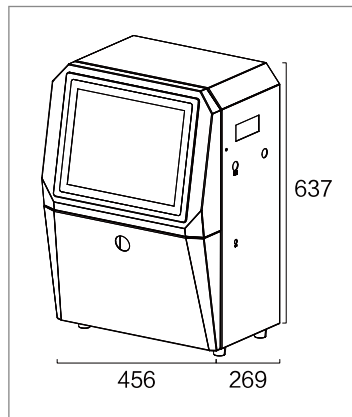


**► DOWNWARD SPRAY PRINTING**

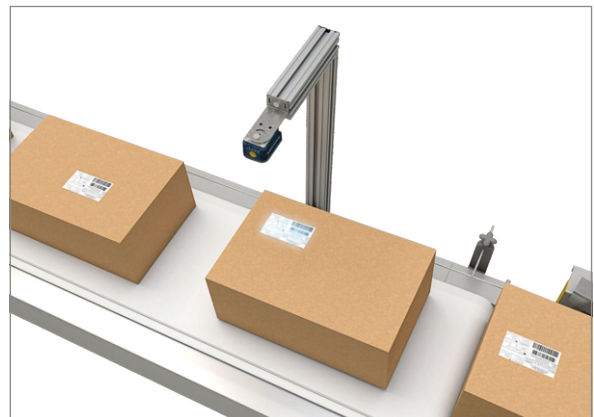
N series high-resolution UV inkjet printer  
Integrated Ink Road  
High precision negative pressure control  
Online/floor standing bracket



Fine tune online bracket



Case



vision inspection

# UV high-definition inkjet printer N series / N1 / N2



model	N1	N2
system	Second generation industrial coding system for Android platform	Second generation industrial coding system for Android platform
screen	13.3-inch industrial Android screen, what you see is what you get	13.3-inch industrial Android screen, what you see is what you get
nozzle type	SEIKO 510	SEIKO 1020
Print Height	Single head: 71.8mm	Single head: 71.8mm
physical resolution	180DPI	360DPI
Printing direction resolution	100DPI to 3000DPI	100DPI to 3000DPI
Ink dot size	35PL, 50PL optional	12PL and 35PL are optional
Printing distance	1 to 20mm	1 to 20mm
speed	The fastest speed can reach 66 meters per minute	12PL: The fastest speed can reach 100 meters per minute; 35PL: The fastest speed can reach 66 meters per minute
Printing direction	Top spray, bottom spray, side spray	Top spray, bottom spray, side spray
ink supply system	Negative pressure and siphon options are available	Negative pressure and siphon options are available
Temperature/humidity	0°C-45°C 15%-75%	0°C-45°C 15%-75%

## ► ADVANTAGE

SEIKO nozzle is a fully steel structure nozzle that can achieve 24-hour non-stop printing, with independent color control for one nozzle and one color. It is designed for UV ink and can also be applied to weak solvent ink. It has very good corrosion resistance and excellent inkjet fluency. SEIKO nozzle has a printing speed of about 15 square meters per hour.

# UV high-definition inkjet printer N series / N3L / N5



model	N3L	N5
system	Second generation industrial coding system for Android platform	Second generation industrial coding system for Android platform
screen	13.3-inch industrial Android screen, what you see is what you get	13.3-inch industrial Android screen, what you see is what you get
nozzle type	CEN4	G5
Print Height	Single head: 53.7mm	Single head: 54mm, maximum 8 heads: 400mm
physical resolution	300DPI (150300450 adjustable)	600DPI (150300450 adjustable)
Printing direction resolution	100DPI to 3000DPI	100DPI to 3000DPI
Ink dot size	5PL,10PL,15PL	7PL,14PL,21PL
Printing distance	1 to 15mm	1 to 5mm
speed	The fastest speed can reach 66 meters per minute	The fastest speed can reach 330 meters per minute
Printing direction	reversed	Top spray, bottom spray, side spray
ink supply system	Negative pressure and siphon options are available	Negative pressure and siphon options are available
Temperature/humidity	0°C-45°C 15%-75%	0°C-45°C 15%-75%

## ► ADVANTAGE

1. Stable and reliable, using various durable components that meet industrial production requirements, especially industrial grade nozzles that can be used for 3-5 years with careful use and maintenance.
2. Save up to 30% -50% ink,
3. Environmentally friendly, using environmentally friendly UV curable ink that does not contain VOCs (volatile organic compounds) - a new trend for the future! Widely used, UV curable ink can directly print on various materials, partially replacing traditional screen printing applications and achieving better results than screen printing
4. With richer colors and higher efficiency, it has achieved rapid development in personalized product processing fields beyond traditional craftsmanship, such as glass, acrylic, wood, ceramic tiles, metal plates, PVC plates, corrugated boards, plastics, etc.

# UV high-definition inkjet printer N series / N3



## ▶ Advantages of nozzle high ink droplet speed+high landing point accuracy

### ◆ Ink droplet flight speed

- The velocity of the ejected ink droplets exceeds 10m/s;
- Reduce the difference in landing points of different dot types, especially the accuracy of landing points for small ink droplets;
- High spray intensity is suitable for high drop and high gap printing.

### ◆ Spray angle error

- Spray angle: within 1.3mrad, which is equivalent to the ink droplets being ejected falling on a 10cm large bullseye 50 meters away.
- The small spray error greatly ensures the accuracy of the landing point of 3-40l ink droplets.

## ▶ Advantages of nozzle internal circulation technology

### ◆ Patent internal circulation technology

The high flow internal circulation technology that directly flows through all nozzle channels has great inherent advantages compared to other nozzle ink chamber circulation.

### ◆ Application value

**Stability:** Internal circulation directly removes bubbles and impurities from the printing chamber, ensuring the stability of continuous printing

**Moisturizing properties:** greatly extending standby time, spraying immediately upon startup, reducing maintenance and cleaning frequency;

**Nozzle lifespan:** The internal circulation self-healing function greatly reduces nozzle clogging and extends nozzle lifespan;

**Ink adaptability:** Internal circulation prevents large particle pigment ink from settling, making it suitable for a wider range of ink applications such as UV white ink, ceramic/glass inorganic ink, special varnish and coatings, fast drying ink or other large particle high viscosity inks.

## ▶ Advantages of nozzle Ultra high resolution precision machining technology

### ◆ Global exclusive single row 300dpi nozzle processing technology

The industrial nozzle of single row 300dpi nozzle is composed of only two rows of nozzles spliced together, while the nozzle has 600dpi.

### ◆ Application value

**Reduce printing color difference:** avoids color unevenness in 1pass caused by differences in multiple nozzle rows, such as light and dark stripes;

**Improve landing point accuracy:** avoids accuracy degradation caused by landing point errors of different columns of nozzles;

**Reduce color difference:** Reduce the color difference between each column of the nozzle, and minimize the occurrence of streaks, ghosting, or jagged edges during printing.

physical resolution	600DPI	Internal circulation of nozzle	support
Printhead Height	53.95mm	Ink Road Cycle	support
Ink dot size	3.5PL/6PL	Nozzle standby time	one month
Ink dot type	From 1 to 5 o'clock	speed	108 meters per minute
Printing distance	1 to 20mm	colour	Supports dual color
Number of nozzle columns	2	Reverse circulation cleaning of nozzle	support
Resolution of each nozzle column	300DPI	pressure control	Negative pressure internal circulation
Pipeline direction resolution	150,300,600,1200	nozzle type	CF3



