



# **POLAROID EVEREST 3.2 UV ROLL PRINTER**

## **SITE PREPARATION**





## Introduction to the printer

Polaroid Everest 3.2 UV printer is a large format digital printer suitable for small and medium commercial use industry. It uses UV curable ink, which is friendly to the environment. It provides high productivity and is able to replace traditional screen printing.

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It uses a conveyor belt for transfer media, both roll material and plate material can be adjusted.

This type of printer is widely used in fields such as:

Advertising, packaging, printing, interior decoration, POP board, glass work, flexible packaging, wood work, printed circuit board, etc.

Polaroid Everest 3.2 UV printers use drop-on-demand and piezoelectric technology. It can print colorful and wide image using the highest resolution of 720x1200 dpi. It can generate images of any size with "tile" function in the software. In fact, it is a combination of roll-to-roll and rigid plate printer.

## 1. General Features

Technical Specifications: Everest 3.2 UV

Printer			
Model	Everest 3.2 UV		
Print Area	3200mm*with an expandable table		
Number of Print Heads	Minimum 4 and up to 9, there are configurations of up to 12 heads		
Working Speed	Minimum 4	Medium 9	Maximum 12
High-3pass	40m2/h	60m2/h	133m2/h
Productuion-4pass	30m2/h	50m2/h	100m2/h
High Quality-6pass	22m2/h	28m2/h	75m2/h
Photo Quality-8pass	15m2/h	22m2/h	50m2/h
Working Resolution	Up to 700x1200 dpi		



Print Technology	Piezoelectric inkjet, Grayscale Technology
Ink Type	UV LED curable ink
Ink Configuration	Standard CMYK, Lc, Lm, White and optional Varnish
RIP Software	PhotoPrint 12, For Onix or Caldera, consult your sales agent
Color Configuration	With ICC color profiles, curve and density adjustment
Operating System	Windows 10 at 64 Bits, USB 2.0/3.0 port Hard disk of at least 500GB
Supported File Formats and Extensions	Tiff, Jpg, Postscript, EP/PDF, Etc

## Material

Material Thickness	0 to 5cm
Suction Table	Divided into 4 different suction areas for a greater variety of measurements
Suggested Material Type	Vinyl, PET films, Synthetic paper, Banner (canvas), acrylics, glass, wood, etc.

## Ink Feeding

Negative pressure system  
Alarm sensor for ink level control

## Curing System

Set of LED UV lamps

## Dimensions

Printer dimensions	Long	width	High
<b>Without packaging</b>	4336mm	1520mm	1550mm
<b>With packaging</b>	4560mm	1760mm	2000mm
<b>Weight</b>			
<b>Without packaging</b>	2400Kg	<b>With packaging.</b>	3000Kg
<b>Operating Conditions</b>			
<b>Temperature</b>	20 a 30 °C		
<b>Relative Humidity</b>	30% - 70%	No condensation	

### Electrical requirements

Consumption of 6000W 28<sup>a</sup>  
Working voltage 220 to 240 V, Two-phase, 50/60hz

One Year Warranty, contact your local sales agent for more details

## 2. Preparing the Work Site

### 2.1 Installation Space



There must be sufficient space around the printer for replacement of frequently used parts, for the egress of printed media, and for ventilation. In addition, maintenance space is required for servicing the printer or replacing components.

## 2.2 Environmental Conditions

The printer should be used within the temperature and humidity ranges as shown below;

**Temperature: 20°C to 30°C**

**Humidity: 30% to 70%**

For better print quality, use the printer at a temperature of 20°C to 25°C.

When the operating temperature is lower than 20°C or higher than 40°C, the printing speed is reduced to two-thirds of the normal printing speed.

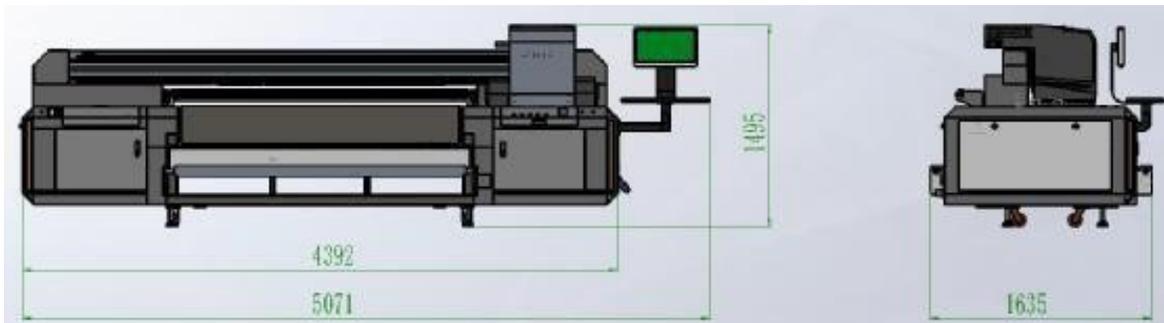
## 2.3 Places where the printer should not be installed

Do not install the printer in the following locations:

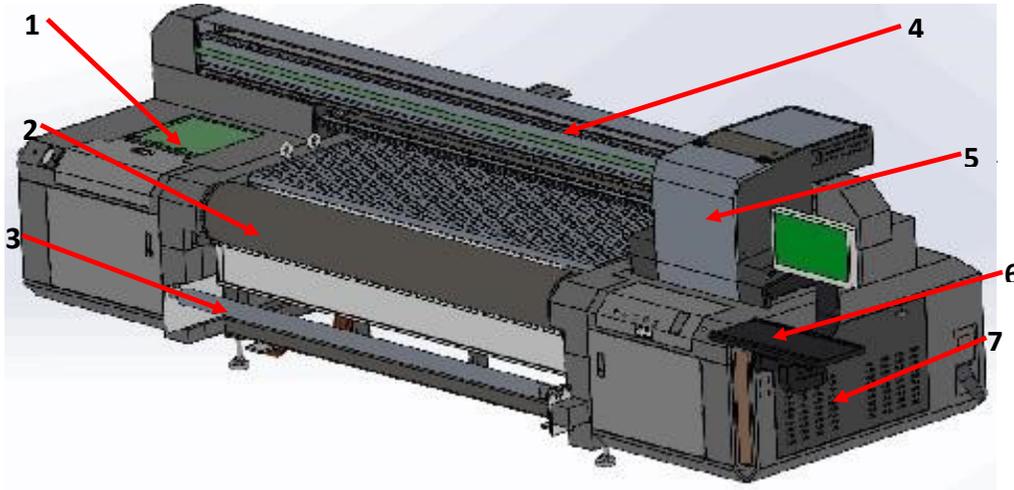
- A location near a fire source.
- Locations exposed to direct sunlight.
- Locations subject to vibration.
- Locations with excessive dust.
- Locations subject to extreme changes in temperature or humidity.
- Locations near an air conditioner or heater, extremes.
- Locations where the printer may get wet.
- Locations near an ammonia gas container.
- Locations with poor ventilation.
- Unstable location.

## 2.4 Installation space dimensions

Machine size 5071mm(L)\*1635mm(W)\*1495(H). We suggest leaving 1mm around the machine. The suggested installation space is 7000mm(L)\*3500mm(W)\*3000mm(H)



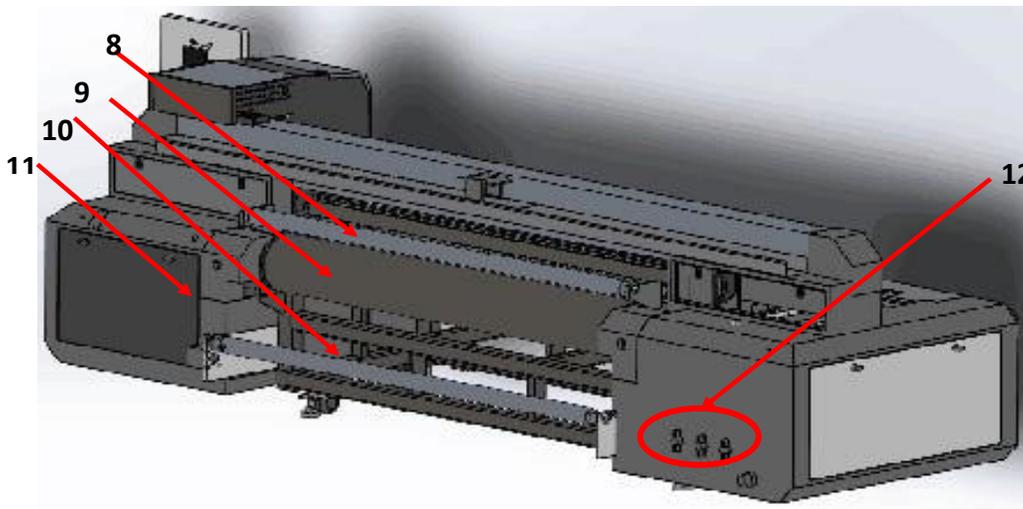
## 2.5 External Views and Names of Parts



Front View

### Parts List

- |                          |                    |
|--------------------------|--------------------|
| 1. Head maintenance area | 5. Head carriage   |
| 2. Feed roller           | 6. Monitor base    |
| 3. Loading bar           | 7. Charging center |
| 4. Carriage feed rail    |                    |



Rear View

### Parts List

- |   |                                  |
|---|----------------------------------|
| 8. Material pressure bar                          | 11. Table suction control valves |
| 9. Feed roller                                    | 12. Bed vacuum regulating valves |
| 10. Material loading bar with air pressure clamps |                                  |



### 3. Electrical Configuration

**NOTE:** A certified electrician or professional in the field is required for the installation and configuration of the electrical system to power the printer and also for the installation of the printer. The printer requires the customer to supply and install the following electrical components, according to the requirements of the Electrical Code of the local jurisdiction of the country of installation.

1. Power distribution unit (PDU) or voltage conditioner or voltage regulator,

**NOTE:** The printer is not supplied with any power cord.

#### 3.1 Power specifications

Configuration: 200–240 V line-to-line configuration with biphase control

Specs	
	Two-phase switch
Number of power cables	4 (L/L/N/T)
Input voltage (line to line)	100-240 V ( $\pm 10\%$ )
Input frequency	50/60 Hz
Maximum current load (per phase)	15 A

AC Power Cable Specifications	
Thermal magnetic switch	2 poles, 15/16/20 A
AC Power Cable Specifications	
	Power line
Configuration	4 wires, L/L/N/T
Cable	Copper or Cu alloy minimum, 2.5 mm <sup>2</sup> or 16 AWG
Outer diameter	5.0-11.0 mm

#### 3.1 Grounding

The printer must be connected to a high-quality earth ground line to avoid electrical hazards. The following grounding requirements must be met to comply with site preparation:

- Grounding wires must be insulated and at least the same size as the phase conductors.
- \* La impedancia de tierra debe ser inferior a 0,5  $\Omega$ .
- \* The suggested installation with saline preparations.

#### 3.2 Air-conditioning

In addition to fresh air ventilation, to avoid health risks, also consider maintaining workplace environmental levels by ensuring specified operating climate conditions to prevent operator discomfort and equipment malfunction. Air conditioning in the work area should take into account that the equipment produces heat. Typically, the printer's power dissipation is: 9kW Polaroid Everest (30.7kBTU/h)

**NOTE:** Air conditioning units should not blow air directly onto the equipment.



### 3.3 Superficie del piso

La superficie del piso debe tener las siguientes características:

- superficie horizontal
- Sólido, suave y nivelado.
- Sin agujeros ni hendiduras.
- Superficie libre de estática (sin alfombra)
- Fácil de limpiar
- Durable
- Libre de fuertes vibraciones.
- Hormigón

### 3.4 Lighting up

Whenever your printer is in operation, the print production area should be well lit to provide the operator with optimal conditions for checking color and alignment during print production. If there is not enough natural light, artificial lighting will be required.

## 4. Computer Requirements

- 64-bit operating systems for high-volume workflows.
- RAM: Minimum 8GB (4GB/core recommended)
- Hard Drive: 500GB (7200 rpm) (250GB + free space)  
NOTE: Firewall and antivirus must be disabled or configured to allow applications and printers
- Monitor: 1280×1024 pixels, 16-bit color
- USB 3.0 port
- DVD-ROM drive
- Microsoft Windows 10 Professional (SP1 or higher) operating system - Processor: Intel Core i7 or equivalent

### A note on system requirements

The faster your CPU, the faster the software will process your images. Therefore, it is advisable to purchase the fastest computer you can afford. While more RAM will also help speed up processing, it is the CPU speed that directly affects the speed at which SoftRIP runs. If you are processing large files over 100 MB in size, it is also advisable to upgrade your hardware configuration to include significantly more memory than the minimum requirement specified above.

SoftRIP can process more than one image at a time and take advantage of multiple CPUs for this purpose. For each additional processor in your computer, it is recommended that you double the amount of RAM, up to a maximum of 512 MB per processor. It is important to use terabyte solid-state drives on computers intended for high-resolution printing, especially if you plan to keep RIP files available in the Print Queue.

### Operating systems

SoftRIP is compatible with Windows 7, Windows 8 and Windows 10 operating systems.

### File format compatibility

PostScript Level 3, PDF, EPS, Tiff, JPG, GIF, PNG, PSD, BMP, PCX, PPM, TGA and DCS2.



# polaroid

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