



The best A3+ LED UV printing system

Flash On Ink Firing⁽¹⁾
Control On Demand⁽²⁾
Safe Cooling Control⁽³⁾
Automatic Printhead Height Adjustment⁽⁴⁾
Continuous Ink Supply System⁽⁵⁾
Industrial Design
Auto Reprint Function
Remote Control Panel⁽⁶⁾

Production Speed

Get your job orders done in no time. In production print mode, quality meets speed. Only 6min are needed to print a full A3 size substrate @ 1440x1440 dpi.

Gain time, print and deliver immediately using brotherJet's proprietary DTS inks.

Quality Printing

Using the EPSON DX5 printhead, the BR U1800 benefit from the variable dot printing technology.

For sharp detailing and small text rendering, the BR U1800 prints up to 5760dpi in high resolution mode and fires ink droplets as fine as 1.5pl.

The printhead itself is consisted of 8 channels of 180 nozzles each, with a basic ink configuration of (C,M,Y,K,W,W,W,W). Customized ICC profiles are provided to get the most out of DTS UV LED inks.

Enjoy vivid color output and color accuracy!

Ink Compatibility

The BR U1800 direct to substrate printer is compatible with BR DTS LED UV ink

The DTS ink is available in 1000, 500 and 250ml capacity.

Versatility

The BR U1800 printer is designed to print on both rigid and flexible materials. It prints directly on wood, PVC, acrylics, leather, glass, crystal, ceramics, rubber, aluminum, copper, etc...

The BR U1800 is ideal for custom gifts, giveaways, personalized printing, industrial labels, small signage, phone covers, indoor decoration, etc...

The UV White ink enables the BR U1800 to print on dark and transparent materials. (Simultaneous White + CMYK printing mode is enabled in ARTISRIP software).

Printing Technology

The BR U1800 ink system is based on an advanced LED UV curing system.

It uses brotherJet's proprietary direct to substrate LED UV ink. The LED UV ink technology allows the creation of amazing 3D textured and raised printing effects.

Durability

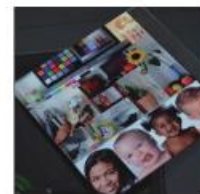
Built from industrial grade components, the BR U1800 can directly print on substrates as heavy as 20kg.

The print output is both scratch proof and UV resistant. It is suitable for indoor and outdoor applications.

The DTS UV eco-friendly inks are formulated to ensure the longevity of the piezo electric printhead, the color output saturation and the mechanical resistance of the printouts.

Enjoy up to 3 years of outdoor durability!

Applications



Acrylic Prints



Mobile Covers



Awards



Custom Gifts



Metal Prints



Wood Prints

Technical Specification

Model	BR U1800	
Print speed	8 min for Full A3 size @ 1440x1440 dpi	
Printing technology	UV LED	
Ink	brotherJet DTS UV ink (C,M,Y,K,W)	
Media	Application	Glass, plastics, boards, leather, rubber, special paper, aluminum, copper, wood, porcelain, films ...
	Media Size	A3+, 280 x 800 mm (11.02 x 23.62 in)
	Thickness	Up to 170 mm (6.69 in)
	Cylindrical	Optional
Printing	Printing modes	4 pass 6 pass 8 pass
	Print Resolution	Up to 5760 x 1440 dpi
	Print Head	On demand Epson DX5 piezo electric printhead. Made in Japan
Connectivity	Nozzles	Variable dotsize printing technology, starting from 1.5 pl and up to 21pl
	Ports	USB 2.0
	Operating systems	Windows 2000 / XP / WIN7 / Vista...
Dimensions	Depth x Width x Height	Printer 900 x 800 x 700 mm (35.4 x 31.5 x 27.6 in) Shipping 1090 x 920 x 800 mm (42.9 x 36.2 x 31.5 in)
Weight	Printer 90 Kg, Shipping 150 Kg	
Content of the box	BR U1800 printer, USB cable, Power cable, User manual book, washing and ink - joiner tools.	
Environmental ranges	10 - 35 °	
Power consumption and requirements	~75W, Input voltage (auto ranging) 110V/220V 50 - 60 HZ	
Certification	CE certified	
Warranty	One year limited warranty	

Ordering Information

Printer	BR U1800	
Ink	DTS Direct to Substrate LED UV Ink	
	DTS- 1000-001	Cyan UV LED Ink DTS2, 1000ml
	DTS- 1000-002	Magenta UV LED Ink DTS2, 1000ml
	DTS- 1000-003	Yellow UV LED Ink DTS2, 1000ml
	DTS- 1000-004	Black UV LED Ink DTS2, 1000ml
	DTS- 1000-005	Light Cyan UV LED Ink DTS2, 1000ml
	DTS- 1000-006	Light Magenta UV LED Ink DTS2, 1000ml
	DTS- 1000-007	White UV LED Ink DTS2, 1000ml
	DTS- 1000-008	Varnish UV LED Ink DTS2, 1000ml
	DTS- 500-001	Cyan UV LED Ink DTS2, 500ml
	DTS- 500-002	Magenta UV LED Ink DTS2, 500ml
	DTS- 500-003	Yellow UV LED Ink DTS2, 500ml
	DTS- 500-004	Black UV LED Ink DTS2, 500ml
	DTS- 500-005	Light Cyan UV LED Ink DTS2, 500ml
	DTS- 500-006	Light Magenta UV LED Ink DTS2, 500ml
	DTS- 500-007	White UV LED Ink DTS2, 500ml
	DTS- 500-008	Varnish UV LED Ink DTS2, 500ml
	DTS- 250-001	Cyan UV LED Ink DTS2, 250ml
	DTS- 250-002	Magenta UV LED Ink DTS2, 250ml
	DTS- 250-003	Yellow UV LED Ink DTS2, 250ml
	DTS- 250-004	Black UV LED Ink DTS2, 250ml
	DTS- 250-005	Light Cyan UV LED Ink DTS2, 250ml
	DTS- 250-006	Light Magenta UV LED Ink DTS2, 250ml
	DTS- 250-007	White UV LED Ink DTS2, 250ml
	DTS- 250-008	Varnish UV LED Ink DTS2, 250ml
Cleaning	BRCA-U-001	Cleaning agent for LED UV inks
Software	BrotherJet RIP V8.3.4	
	ARTIS RIP V2.0	

ARTIS RIP Software



Specifically designed for brotherJet's UV direct to print systems, ARTIS RIP offers a simple and user friendly intuitive interface. Artisrip main features are

Layout platform

- Layout editing platform, resize, mirror, text, color adjustment, color gamut check..
- Raster and vector images support
- Built in customizable print templates for printing pens, phone covers, lighters, wood cases, etc...

- Previewing and smart nesting
- Tiling

Print Engine

- Vivid color reproduction
- Simultaneous printing to multiple print devices
- Simultaneous White and CMYK printing
 - Color then White print mode
 - White then color print mode
- Support for jpg, tif, bmp, png, ai and pdf image files
- Color management engine base with ICC profiles support
- Individual ink channel adjustment
- Automatic white ink trapping
- Feathering rendering mode (eliminates banding, enhances color transitions)
- Direct printing from common graphic software. (CorelDraw, Photoshop, Autocad...)



- (1) Flash On Ink Firing System
Intelligently powered by brotherJet's FOIF system, the BR U1800 printer electronically activates the UV LEDs when firing ink only. As a result the life time of the printhead and the UV LEDs is maximized. FOIF also protects the entire ink system including the ink pump, the wiper, the damper, and the cap tops.
- (2) Control On Demand System
Designed for an enhanced flexibility and simplicity, brotherJet COD digitally controls the operation of the LED UV system. It automatically adapts to different materials and working environments. COD controls the UV Curing mode(Bi-directional, Uni-directional). This will result in delivering an optimal printing quality and drying time.
- (3) Safe Water Cooling Control System
Designed for operational extra safety and simplicity, brotherJet's SWCC system is built on a digital industrial chilling system. It recycles 300ml of an industrial cooling liquid. The liquid level is visible and refillable on demand to avoid the wearout of the UV LEDs.
- (4) Automatic Printhead Height Adjustment
Equipped with sensors to automatically adjust head height and reduce print head strikes
- (5) Continuous Ink Supply System
Unlike ink cartridges, this system allows for 100% utilization of available ink.
- (6) Remote Control Panel
The RCP is a software module allowing the remote administration of the printer from your desktop computer.

ECO

Go green with brotherJet's DTS UV inks. Print toxin free and virtually odorless. DTS UV inks are environmentally friendly. UV inks are cured and fixed to the substrate when being activated with UV light. The curing process hardens the ink, without any evaporations. Ideal for restaurants, hotels, hospitals indoor signage applications.