

# Direct Color Systems®

## UV LED PRINTER FOR BRAILLE & GRAPHICS

### PATENTED ADA-COMPLIANT/BRAILLE SIGN PRINTING SOLUTION WITH FULL COLOR FLAT AND TACTILE CAPABILITIES

#### INCLUDES

VACUUM TABLE ATTACHMENT

ADA/BRAILLE SOFTWARE MODULE



#### AN EFFICIENT SIGN PRINTING SOLUTION

- >> Produces ADA-compliant/Braille signage (Patented)
- >> Save time and costs when digitally printing ADA-compliant/Braille signs when compared to other production methods
- >> Printable area: up to 304mm x 610mm (12" x 24")
- >> Fully adjustable height clearance to accommodate substrates from 0mm to 51mm (2") with vacuum table installed or 102mm (4") with vacuum table removed
- >> Made in the USA – distributed globally

#### PRODUCTION READY

- >> Y-axis absolute positioning accuracy and repeatability of  $\pm 0.038\text{mm}$  (0.0015")
- >> Precision Dot Control™ provides industry-leading print quality
- >> White Ink Circulation System – Programmable and automatic circulation of the entire white ink tank and lines
- >> UV LED inks offer outstanding solvent and abrasion durability
- >> ACS™ – UV print head anti-cure system
- >> Bulk Ink System™ – Unlike single-use cartridges, this system allows for 100% utilization of available ink

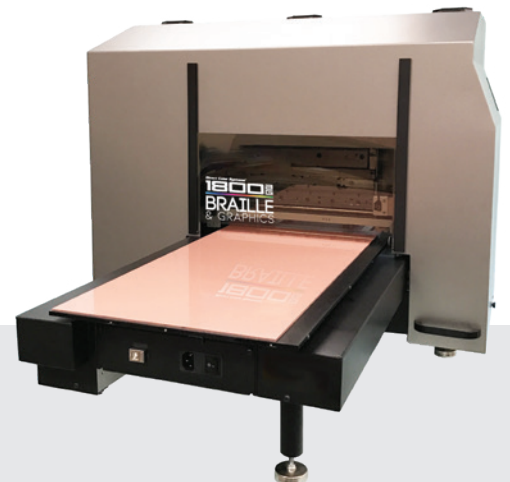
INCLUDED RIP 10 SOFTWARE INTEGRATES SEAMLESSLY WITH INDUSTRY-STANDARD DESIGN PROGRAMS (PHOTOSHOP®, ILLUSTRATOR®, COLOR BYTE, CORELDRAW®)

\*TEXTURE3D™ capability available for additional purchase.

#### PRINT EVERY ELEMENT

- >> Inline printing – print any combination of white, color and clear print head channels simultaneously, in a single pass
- >> The included Color Byte software can properly translate and space required Grade 1, Grade 2, or CA Grade 2 Braille
- >> Digitally printing backgrounds on the 1st or 2nd surface opens more design capabilities and can save material/process costs
- >> Print full color graphics on wood, metals, ceramic tiles, plastics, glass, and so much more!

LCD TOUCH SCREEN PROVIDES INTERACTIVE, ON-DEMAND PRINTER STATUS AND INK LEVELS



Direct Color Systems®  
**1800G**  
BRAILLE & GRAPHICS

# UV LED PRINTER FOR BRAILLE & GRAPHICS

**HIGH VERSATILITY**  
**PRINT FULL COLOR GRAPHICS ON AWARDS, PROMO ITEMS,**  
**INDUSTRIAL PARTS & MORE!**

## DIRECT JET 1800BG UV LED PRINTER SPECIFICATIONS

<b>IMAGING PROCESS</b>	On-demand inkjet (Micro Piezo) 8-channel head with 180 nozzles/inch/channel
<b>RESOLUTION</b>	Text & Graphics <sup>1</sup> : 720X720 Production <sup>2</sup> : 720X1440, 1080X1440 / Quality <sup>3</sup> : 1440X1440, 2880X1440, 5760X1440
<b>INK DROPLET SIZE (MINIMUM / MAXIMUM)</b>	1.5 picoliters / 21 picoliters
<b>INK COLORS</b>	Yellow, Magenta, Cyan, Black, 2x White, 2x Clear
<b>INK DELIVERY SYSTEM</b>	Bulk Ink System™ User refillable 300mL Tanks
<b>PRINT SPEED<sup>3</sup></b>	1:28 to produce a flat bi-directional 8' x 12' (203mm x 304mm) image at 1440 x 720 dpi / High Speed 3:11 to produce a flat bi-directional 12' x 24' (304mm x 610 mm) image at 1440 x 720 dpi / High Speed
<b>Y-AXIS ABSOLUTE POSITIONING ACCURACY &amp; REPEATABILITY<sup>4</sup></b>	±0.038mm // ±0.0015"
<b>PRINT DIRECTION</b>	Uni- and bi-directional
<b>MAXIMUM PRINTABLE AREA<sup>5</sup></b>	304.8mm x 609.6mm // 12" x 24" for all standard print modes.
<b>MAXIMUM SUBSTRATE SIZE</b>	330.2mm x 660.4mm // 13" x 26" // Maximum Substrate Weight: 13.6kg (30lbs)
<b>Z-AXIS (DEPTH/THICKNESS CONTROL)</b>	0mm to 51mm (2") with Vacuum Table installed 0cm to 102mm (4") with Vacuum Table removed
<b>MEDIA</b>	Prints to a variety of substrates <sup>6</sup> using DCS Multisolve LED UV IR2 ink set, including (but not limited to) plastic, glass, wood, ceramic, metal, etc.
<b>CONTROL PANEL</b>	89mm (3.5") Color LCD Touch Screen Display
<b>INTERFACE</b>	Hi-speed USB 2.0
<b>WINDOWS OPERATING SYSTEM</b>	Windows 7 (32 & 64 bit), Windows 8 (32 & 64 bit) or Windows 10 (32 & 64 bit)
<b>SYSTEM MINIMUM REQUIREMENTS</b>	CPU of >3GHz, 8GB RAM, 100 GB free hard disk space and 4 available USB 2.0 ports
<b>POWER SOURCE</b>	100-240 VAC, 50-60 Hz., 4 A auto switching
<b>OPERATING STANDING AND STANDBY TEMPERATURE</b>	16°C - 26°C (60°F - 80°F)
<b>HUMIDITY</b>	Non-condensing 20%-80%
<b>INCLUDED ACCESSORIES</b>	Vacuum Table, ADA/Braille Module
<b>WEIGHT</b>	220 lbs. (100 kg)
<b>DIMENSIONS</b>	Depth 31.8" (806.7mm) x Height 25.5" (647mm) x Width 48.8" (1239.4mm). Height of 40.8" (1036mm) when cover is fully opened.
<b>WARRANTY</b>	Printer 1-year limited warranty
<b>RIP</b>	Color Byte RIP 10
<b>INK AND MEDIA</b>	Available through Direct Color Systems and authorized dealers / distributors

<sup>1</sup> Substrate dependent. <sup>2</sup> Substrate dependent. <sup>3</sup> Print times may vary dependent on computer configuration. <sup>4</sup> When utilizing the Y-axis Heavy-Duty Direct Drive Module. <sup>5</sup> Non-standard print modes are limited to 298mm (11.75") in print width. <sup>6</sup> All substrates should be tested for image receptivity, adhesion and durability, with final acceptance and suitability determined by the customer. <sup>7</sup> Some materials may require the use of an adhesion promoter or a chemical wipe prior to printing to promote adhesion. <sup>8</sup> To prevent contamination of the ink system, operators of the machine must only use the compatible ink specified for each machine. Failure to do so will harm the machine and void the warranty.

This data sheet is for informational purposes only. Direct Color Systems makes no warranties, expressed or implied in this summary. Specifications are subject to change without notice. This is not an offer for sale.

While the components of the ADA signage, produced on compatible 1800BG, 1800z and 7200z printers, have tested to be in compliant federal USA ADA signage guidelines outlined in the 2010 ADA Standards for Accessible Design (Department of Justice - September 15, 2010 [www.ADA.gov](http://www.ADA.gov)), it is the responsibility of the signage manufacturer to ensure compliance with the governing local, state and federal authorities. <sup>9</sup> DCS offers ADA-compliant InkMark UV Metal. This metal comes in a matte finish with color options of Matte White, Matte Gold, Matte Silver. DCS also offers InkMark UV metal that is not ADA-Compliant. This metal can be used if graphics are printed as a full bleed to thereby become ADA-compliant. Standard InkMark UV Metal is also available in White, Gold and Silver finishes.

### VACUUM TABLE AND ADA SOFTWARE MODULE INCLUDED



Calibrated for



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