

1800G

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 101mm (4") with vacuum table removed
- >> Made in the USA - distributed globally

PRODUCTION READY

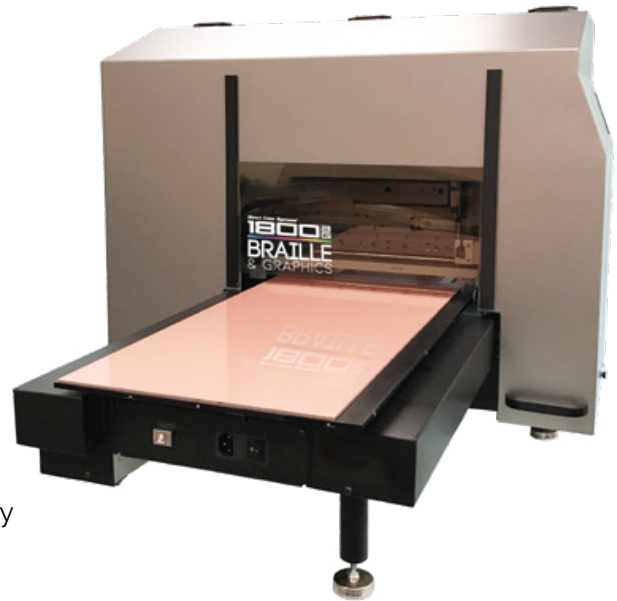
- >> Y-axis absolute positioning accuracy and repeatability of $\pm 0.038\text{mm}$ (0.0015")
- >> Precision Dot Control™ provides industry-leading print quality
- >> White Ink Circulation System - Programmable and automatic circulation of the entire white ink tank and lines
- >> UV LED inks offer outstanding 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®, COLORBYTE, 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!



Direct Color Systems®
1800
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

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

Compliant with patents: directcolor.com/patents/

¹Substrate dependent. ²Substrate dependent. ³Print times may vary dependent on computer configuration. ⁴When utilizing the Y-axis Heavy-Duty Direct Drive Module. ⁵Non-standard print modes are limited to 298mm (11.75") in print width. ⁶All substrates and textiles/fabrics and should be tested for image receptivity, adhesion and durability, with final acceptance and suitability determined by the customer. ⁷Some materials may require the use of an adhesion promoter or a chemical wipe prior to printing to promote adhesion. ⁸To 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, 1800s, UV53DTS, and UV84DTS 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), it is the responsibility of the signage manufacturer to ensure compliance with the governing local, state and federal authorities. 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.

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