

# Direct Color Systems®

## SMALL-FORMAT UV LED FLATBED PRINTERS

VERSATILE MAX-VOLUME, SMALL-FORMAT SOLUTIONS WITH INDUSTRY-LEADING PRINT QUALITY, SPEEDS AND CAPABILITIES

### FEATURING

304MM / 12" PRINT WIDTH

ENHANCED THROUGHPUT OVER PREVIOUS MODELS\*



### UNMATCHED CAPABILITIES

- >> TEXTUR3D™ 3-dimensional prints for a unique look and feel, plus standard flat prints
- >> Produces ADA-compliant/Braille signage (Patented)
- >> Cylindrical + Conical\*\* object and bottle printing made easy with the EasyCyl attachment
- >> Printable area: up to 304mm x 610mm (12" x 24")
- >> Models vary with fully adjustable heights to accommodate substrates from 0mm to 102mm (4"), 152mm (6") and 381mm (15")
- >> Print on wood, metals, ceramic tiles, plastics, glass, industrial parts, promotional products and so much more!
- >> F6T Editions capable of printing directly to light & dark colored t-shirts and garments (Patent Pending)

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

### OPTIMIZE YOUR PRODUCTION

- >> Inline printing – print any combination of white, color and clear print head channels simultaneously, inline, in a single pass
- >> Bulk Ink System™ – Unlike single-use cartridges, this system allows for 100% utilization of available ink
- >> White Ink Circulation System – Programmable and automatic circulation of the entire white ink tank and lines
- >> ACS™ – UV print head anti-cure system
- >> LED sensors automatically adjust head height to reduce print head strikes
- >> Made in the USA – distributed globally

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

\*Increased throughputs are file and resolution dependent. Determine optimal resolution prior to determining throughput.  
\*\*Limitations apply with conical printing.

### SUPREME PRINT QUALITY

- >> Y-axis absolute positioning accuracy and repeatability of ±.038mm (0.0015") when utilizing the Y-axis Heavy-Duty Direct Drive Module
- >> Precision Dot Control™ provides industry-leading print quality
- >> White UV ink creates a very opaque image, allowing you to print vibrant colors onto virtually any colored or transparent substrate
- >> UV LED inks offer outstanding solvent and abrasion durability – 6-color ink set, including clear and white



Direct Color Systems®  
**1800z**

# SMALL-FORMAT UV LED FLATBED PRINTERS

ALL MODELS ARE AVAILABLE IN STANDARD IR2 OR F6T EDITIONS\*  
ECONOMICAL HEAD REPLACEMENT COST | ADJUSTABLE POWER OUTPUT FOR UV LED LAMP

## DIRECT JET 1800z SERIES 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 (1800z15c - 15mL Fillable Cartridges)
<b>PRINT SPEED<sup>3</sup></b>	1:28 to produce a bi-directional 8" x 12" (203mm x 304mm) image at 1440 x 720 dpi / High Speed 3:11 to produce a 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>	1800zBG: 0cm to 10cm (4") // 1800z15: 0cm to 15cm (6") // 1800z35: 0cm to 38cm (15")
<b>MEDIA</b>	Prints to a variety of substrates <sup>6</sup> using DCS Multisolve LED UV IR2 or IRF6(T) ink set, including (but not limited to) plastic, glass, wood, ceramic, metal, etc. IRF6(T) ink prints to t-shirts, belts, bags and more. <sup>7</sup>
<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>OPTIONAL ACCESSORIES</b>	EasyCyl, Vacuum Table, ADA/Braille Module, DTG, Automated URL Design
<b>WEIGHT</b>	1800z35: 230 lbs. (104 kg) / 1800z15: 220 lbs. (100 kg) / 1800z10: 220 lbs. (100 kg)
<b>DIMENSIONS</b>	1800z10, 1800z15, 1800z35: 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. 1800z35: Depth 31.8" (806.7mm) x Height 33.9" (861mm) x Width 48.8" (1239.4mm). Front cover is removal for service accessibility.
<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

Compliant with patents: [directcolor.com/patents/](http://directcolor.com/patents/)

<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 and textiles/fabrics and 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.

\*F4 Editions available as custom order.

DTG Note: When printing to shirts, fabrics, or garments that require a white under base of ink, most materials must be prepped with water prior to printing. When ordering any F6T, F6, or F4 printer model for DTG applications, DCS recommends a pretreatment machine for accurate application of water prior to printing. The DCS applications lab uses and recommends the VIPER XPT-1000 (<http://www.viperxpt.com>) or the COBRA Pretreat Machine (<https://cobradtg.com>). Please also note that a heat press is required for DTG applications with any F6T, F6, or F4 printer model. Please review the latest "Before You Buy: DTG Printing with DCS UV LED Printers".pdf for complete details. All textiles/fabrics should be tested for image receptivity, adhesion, and durability with final acceptance and suitability determined by the customer. The "Application Guide DTG Printing".pdf will provide instructions and suggestions on process steps or software changes once customers want to try and test new shirts (outside of those garments/shirts that DCS recommends in the "Before You Buy".pdf).

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**F6T EDITION**  
NOW AVAILABLE

With IRF6(T) inks, cracking and peeling of prints is eliminated or minimized on flexible items.<sup>8</sup>

Color Byte RIP  
v10

Calibrated for  
Multisolve  
Inks

EasyCyl  
Compatible