1800s

SMALL-FORMAT UV LED FLATBED PRINTERS

→ Unmatched Capabilities

• TEXTUR3D™ 3-dimensional prints for a unique look and feel.

• Produces ADA-compliant/Braille signage using DCS patented process.

• Cylindrical & conical object and bottle printing made fast with the EasyCyl™ attachment option.

• 304mm x 610mm (12" x 24") printable area.

• Two models allow for Substrate heights of 15cm (6") & 35cm (15")

• Print on wood, metals, Ceramic tiles, plastics, glass, industrial parts, promotional products and so much more!

• F6T Edition capable of printing directly to light & dark colored t-shirts & garments (Patent Pending)

→ Superior Print Quality

• Y-axis absolute positioning accuracy & repeatability of ± .038mm (0.015")

• UV LED inks offer outstanding solvent and abrasion durability

• Precision Dot Control™ for industry-leading print quality

→ Optimized Performance

• Inline printing - print any combination of white, color & clear simultaneously, inline in a single pass.

• Bulk Ink System™ allows for 100% utilization of ink.

• White ink circulation system

• LED sensors automatically reduces print head strikes

• ACS™ - UV print head anti-cure system

Made in the USA - Distributed Globally

⊕ Contact DCS

Direct Color Systems
99 Hammer Mill Road
Rocky Hill, CT
USA 06067
800 829-2244
Info@directcolorsystems.com

DCS EAA
Rua Do Alto Das Torres 942
4430-009 Vila Nova De Gaia
Portugal

eeainfo@directcolorsystems.com

www.directcolorsystems.com

SPECIFICATIONS — 1800S15/1800S35

IMAGING PROCESS	On-demand inkjet (Micro Piezo) 8-channel head with 180 nozzles/inch/channel
RESOLUTION	Text & Graphics[1]: 720X720 Production[1]: 720X1440, 1080X1440 / Quality[2]: 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 (1800s15c – 15mL Fillable Cartridges)
PRINT SPEED[3]	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
Y-AXIS ABSOLUTE POSITIONING ACCURACY & REPEATABILITY[4]	±0.038mm // ±0.0015"
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)	1800s15: 0cm to 15cm (6") // 1800s35: 0cm to 38cm (15")
MEDIA	Prints to a variety of substrates[6] 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.[7]
CONTROL PANEL	89mm (3.5") Color LCD Touch Screen Display
INTERFACE	Hi-speed USB 2.0
WINDOWS OPERATING SYSTEM	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%
OPTIONAL ACCESSORIES	EasyCyl, Vacuum Table, ADA/Braille Module, Texture3D Module, DTG Platen, DTF Films (ea. Clear, Gold, Silver), Automated URL Design
WEIGHT	1800s35: 230 lbs. (104 kg) / 1800s15: 220 lbs. (100 kg)
DIMENSIONS	1800s15, 1800s35: 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.
WARRANTY	Printer 1-year limited warranty
RIP	Color Byte RIP 10

All Models are Available in Standard IR2 or F6T Editions

Compliant with Patents: directcolorsystems.com/patents/

[1]Substrate dependent. [2]Substrate dependent. [3]Substrate dependent. Print times may vary depending on computer configuration. [4]When utilizing the Y-axis Heavy-Duty Direct Drive Module. [5]Non-standard print modes are limited to 298mm (11.75") in print width. [6]All substrates and textiles/fabrics and should be tested for image receptivity, adhesion and durability, with final acceptance and suitability determined by the customer. [7]Some materials may require the use of an adhesion promoter or chemical wipe prior to printing to promote adhesion. 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. DTG Note: When printing shirts, fabrics or garments that require a white under-base of ink, most material require prep with Water prior to printing. F6T configurations for DTG applications. Please review the *Before you Buy: DTG Printing with DCS UV LED Printers.PDF* for complete details. Also refer to *Application Guide - DTG Printing* for additional instructions and suggestions.

Direct Jet is a registered trademark of Direct Color Systems, Inc.   **www.directcolorsystems.com**

Quality Management ISO 9001:2015
DEKRA certified