

**UV-53  
DTS** / *Direct  
Color  
Systems*<sup>®</sup>

**Introducing the All New...  
UV-53DTS**



# UV-53 / Direct Color Systems®

## High-Performance Industrial Printer

### UV-53 Industrial Inkjet Printer

Introducing the all-new UV-53DTS industrial UV/LED flatbed printer! We created a truly unique medium format flatbed printer capable of printing our patented ADA/Braille signage, Textur3D dimensional signage, and standard graphics. The 5' x 3' design allows users to use quarter sheet stock and advantage of the increased efficiency of the 5' bed width. Our engineering team built the UV-53DTS around Ricoh Gen6 printheads with a faster firing frequency and smaller drop size for better apparent resolution. With a host of other options like pin registration and a printhead crash detection system, the UV-53DTS is ready to revolutionize your business!



### New Size, High Quality Prints

#### Higher Productivity at a Competitive Price

- > 4 Ricoh Gen6 Printheads
- > Four color printing plus white and clear
- > ADApt G5 specially formulated inks
- > Capable of printing high-speed and high precision at 1200 dpi
- > Pin Registration System for fast and easy alignment
- > Precision dot placement provides sharper text and graphics
- > Variable drop grayscale technology allows for smoother gradients and less ink usage
- > Spend less time refilling the bulk ink system with large-capacity ink bottles (1L)
- > Crash Detect System helps to reduce the chance of costly head strikes



Patented ADA/Braille Technology

#### Precision Printing & Production

- > Multiple vacuum zones for different size substrates for maximum holding power
- > Heavy-duty vacuum pump keep media in place for accurate dot placement
- > Easy-to-adjust leveling system
- > Y-Axis positioning accuracy of  $\pm 0.0015"$  | 0.0381mm
- > Specially formulated UV LED inks that were created for the UV-53DTS for precise jetting
- > Pin registration for fast and easy alignment of media

#### Multiple Applications

- > 4" | 10cm Print Height
- > Color Byte 11 with ADA Software and TEXTUR3D Software to help create high margin signage
- > Dual variable control LED lights with 6W/CM<sup>2</sup> power output with instant on/off feature
- > 10 pounds per square foot | 50kg per square meter of substrate weight
- > ADA/Braille, Point of Purchase, Labels, Tags, Promotional items, Packaging, Retail, Wayfinding, Home Décor, Wood, and many more

## Technical Specifications

Imaging Process	On-Demand Piezo Inkjet Printheads
Printheads	Ricoh Gen6
Ink Droplet Size	Variable Grayscale Technology
Resolution <sup>1</sup>	Minimum 600dpi; Maximum 1200dpi
Ink	ADAPT G5 UV LED Ink in Cyan, Magenta, Yellow, Black, White, and Clear, 1L bottles
Ink Delivery System	Bulk Ink system with 3L direct pour ink tanks
Print Speed <sup>2</sup>	ADA – 7 sq ft/hr   0.65 sq m/hr; TEXTUR3D 15 sq ft/hr   1.39 sq m/hr; Graphics – Quality Mode 168 sq ft/hr   15.60 sq m/hr
Y-Axis Accuracy	± 0.0015"   0.0381mm
Z-Axis Print Height	4"   10cm
Maximum Printable Area	5.25' (160cm) x 3.25' (99cm)
Maximum Substrate Size	60" x 39"   152.4cm x 99cm
Media <sup>3</sup>	Prints to a variety of substrates. <sup>4</sup>
Windows Operating System	Windows 10 computer and monitor included
RIP Software	*New* Color Byte 11 with Compass Feature
Power Source	2 x 220V 30A 50/60Hz + 1 x 110V 10A 50Hz or 220V 5A 60Hz for computer & monitor
Operating Environment Temperature	68°F – 86°F   20°C – 30°C
Operating Environment Humidity	Non-condensing 40% -70%
Weight	1235lbs   560kg
Dimensions	126" W x 67" L x 51" H   3.2m W x 1.7 L x 1.29m H
Warranty	1 Year Limited Warranty

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

<sup>1</sup> Substrate dependent. <sup>2</sup> Bidirectional; Print times may vary dependent on print mode configuration. <sup>3</sup> All substrates and textiles/fabrics should be tested for image receptivity, adhesion, and durability, with final acceptance and suitability determined by the customer. <sup>4</sup> Some materials may require the use of an adhesion promoter or a chemical wipe prior to printing to promote adhesion.

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.

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