



Description of Machine

The LogoJET UVx90 flatbed printer offers UV-LED direct-to-substrate printing on a 24"x36" bed, with a 6" height clearance to accommodate many different product sizes. The open design of the machine allows for loading and unloading during the print process, which maximizes machine time. Multiple layers of print can be printed inline.

In addition to full color and white, LogoJet offers primer and clear gloss ink channels. Primer can be used to increase ink durability, build textured designs or create braille signage. Clear gloss can be used for spot varnish or clear coat items. Sensors on the printer detect substrate and auto-height the printer head to keep it an optimal distance from product as it prints.

LogoJet also offers custom anodized aluminum print trays. Trays are designed to quickly change out on the print bed, and allow for faster, easier printing on a wide variety of items. Lightweight objects can be placed directly on the vacuum bed. A tacky mat is included to allow customer to print on virtually any product.

Kothari Print Pro RIP software is a very robust product with many features, including: work flow tools, batch layout and high levels of automation.

Specifications

Height: 25.6 in. (65 cm)
Width: 59 in. (150 cm)
Depth: 49.6 in. (126 cm)
Weight (w/stand): 440 lbs. (200 kg)
Country of Manufacture:

Print Width/Print Dimensions

Max Print Width: 24 in. (61 cm)
Max Print Length: 36 in. (91 cm)
Max Media Thickness (for printing): 6 in. (15.25 cm)

Number of Colors

CMYKWW Clear and Primer
CMYKx2
CMYKWWWW

Printing Resolutions/Modes

720x720 (High Speed 8 pass)
720x1080 (Standard 6 pass)
720x1440 (Quality 8 pass)
1440x1440 (Photo Quality 16 pass)

Operating Environment/Connectivity

Ambient temp.: 15° to 30° C (60° to 85° F)
Max. humidity: 20-80% RH, non-condensing
USB 2.0 Interface

Features

- Auto height sensor
- Vacuum Pump
- Interchangeable anodized aluminum printing trays
- Built-in UV-LED lamp (48v, 395 nm)

Activities for Standard Routine Maintenance

Shake white ink daily 2 minutes
Print Nozzle Check 1 minute

RIP Availability/Compatibility

Printer ships with Kothari RIP software. The Kothari software allows for inline printing of both white and CMYK simultaneously. Full control over channel settings (turn selected channels on/off). Control ink density, dot size and white ink options from within the RIP software.

Ink Capacity and Cost (MSRP)

200 ml ink bags (individual purchase) \$150 (USD) MSRP
Purchase set of 8 bags for \$115.00 (USD) per bag

Options and Cost (MSRP)

- Rotary attachment for bottles
- Flexible Ink Available

Print Head

Epson DX5 print head
Replacement cost (out of warranty) \$2,000.00

Power and Venting Requirements

AC 110~240V 1 PH, 3A, 50/60 Hz

Manufacturer's Suggested Retail Price

LogoJET UVX90 \$55,000.00 (USD)
(Includes set of ink, setup and onsite training)

Digital Equipment Evaluation Report

LogoJET UVX90

December 2016



Print Quality Tests

The SGIA test image was printed on the LogoJET UVX 90 using Chromaluxe at 1440x1440 dpi. RGB input profile set to sRGB and CMYK input profile set to UW web coated SWOP v2 using Kothari RIP. The Rendering intent was set to perceptual. An SGIA control print using an Epson 7800 with semi-matte proofing media and validated with Color*Metrix ProofPass software was used for the spectral evaluation comparisons – measurements are taken in the areas that are designated with the circled numbers and compared in the column at the right.

Objective measurements (taken from LogoJET UVX 90)

#1 Pantone Spot Colors*

Pantone	ΔE
Pantone 185C	9.32
Pantone 300C	10.13
Pantone 512C	5.28
Pantone 375C	7.84
Pantone 7548C	8.01
Pantone 165C	11.49
Pantone 102C	7.62
Pantone 297C	10.37

*All spot colors above were measured from the SGIA test image printed by the UVX 90, using an X-Rite Exact with the following measurement conditions: D50/2°, CIE ΔE 2000, and M1. The

paper was measured before all measurements were taken (see paper values under Gamut and Density).

#2 Neutral Gray Density

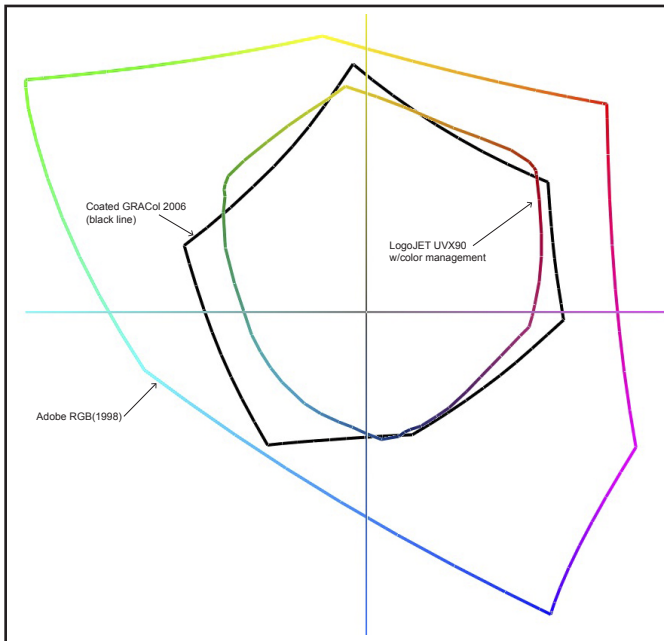
Cyan density of 0.70; Magenta density of 0.64; and Yellow density of 0.62. Neutral gray was created by mixing 50% Cyan, 40% Magenta, and 40% Yellow. In the density measurements above, a neutral gray would typically measure CMY at 0.52, if a color above is off by more than 0.02 from the 0.52 you may be able to see a color cast.

Ink Usage

C .481 ml M .684 ml Y .759 ml K .827 ml

Spectral Evaluations (L*a*b* comparison)

Control Print	UVX 90
#3 Control Print L*30.29 a*6.15 b*-47.98	L*10.12 a*17.04 b*-39.87
#4 Control Print L*51.95 a*65.71 b*34.51	L*40.88 a*65.70 b*46.17
#5 Control Print L*91.29 a*6.03 b*5.47	L*85.16 a*4.19 b*2.51
#6 Control Print L*71.73 a*22.60 b*34.87	L*66.18 a*22.81 b*27.86



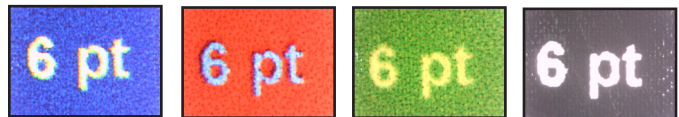
White Ink Evaluation

Black PVC Substrate
White Ink printed

L*3.96 a*-0.64 b*-1.52
L*85.91 a*-3.43 b*-5.28

Visual Evaluation of 6 pt. type

This image is from a 10x digital microscope. The test results are from an individual printer that has been calibrated as directed by the manufacturer and run by an expert operator. The images are 6 pt. yellow type on a Cyan and Magenta background (Blue), 6 pt. Cyan type on a Magenta and Yellow background (Red), 6 pt. yellow type on a Cyan and Yellow background (Green), and finally a knock-out from Pantone Process black ink.



Cross hatch from print registration mark shown CMYK on white background and then the Bas Relief dot structure using the 20x digital microscope.



Gamut and Density

2D Gamut Comparison with Adobe® RGB and Coated GRACoL2006 (known industry specifications). LogoJET UVX90 gamut built by printing the IT8.7-4 CMYK Random test chart on Chromaluxe White Gloss panels at 1440x1440 dpi (16 pass Photo Quality mode) using Kothari's RIP with the Rendering intent set to perceptual and input targets set to sRGB and US web coated SWOP v2. The paper white was measured at L*92.58, a*-2.03, b*-0.21. For reference purposes The L* value represents a white value in darkness and lightness. The higher the number, the whiter the paper. The a* value represents a slight red cast on the green/red axis, and the b* value represents almost no cast on the blue/yellow axis.

The color managed gamut shows how this model printer ships to the end-user with the RIP software and color management settings determined by the manufacturer and described above.

Print Speeds for Bi-Directional Printing

The SGIA test image was run across the width of the media for an image size of 24" x 36" or 6f² (white underbase not used for print).

Resolution	pass/drop size	time to print	Speed in f ² *
1440x1440 dpi(16 pass)		19:00	18 f ² /hour

*square feet per hour

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Service/Warranty Package

The LogoJET UVX 90 comes with a two year parts and labor limited warranty (Print head and capping station not covered by warranty). Service is performed by trained LogoJET technicians.

Training and Support

LogoJET offers onsite training when machine is set up by trained LogoJET technicians and then offers phone and remote log-in options.

For More Information:

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Digital Equipment Evaluation Reports are produced by the Specialty Graphic Imaging Association in order to provide an objective comparison tool for companies utilizing wide-format digital imaging equipment. Equipment is evaluated in controlled conditions using a qualified operator and a representative of SGIA, who works as an objective observer and recorder of findings.

*A special thanks to X-rite for providing the i1 Pro2 Spectrophotometer, and the Exact Spectrophotometer for taking the necessary measurements in these evaluations. Also thank you to Color*Metrix for the use of ProofPass verification software, which was used to validate the Epson 7800 reference print.*

If you have questions about this report or any of the data, please e-mail sgia@sgia.org and reference LogoJET UVX90 in the subject line.

Prices listed in this report are subject to change.