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

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*

<table>
<thead>
<tr>
<th>Pantone</th>
<th>∆E</th>
</tr>
</thead>
<tbody>
<tr>
<td>185C</td>
<td>9.32</td>
</tr>
<tr>
<td>300C</td>
<td>10.13</td>
</tr>
<tr>
<td>512C</td>
<td>5.28</td>
</tr>
<tr>
<td>375C</td>
<td>7.84</td>
</tr>
<tr>
<td>7548C</td>
<td>8.01</td>
</tr>
<tr>
<td>165C</td>
<td>11.49</td>
</tr>
<tr>
<td>102C</td>
<td>7.62</td>
</tr>
<tr>
<td>297C</td>
<td>10.37</td>
</tr>
</tbody>
</table>

*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 ∆E 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)

#3 Control Print

<table>
<thead>
<tr>
<th>L*</th>
<th>a*</th>
<th>b*</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.29</td>
<td>6.15</td>
<td>-47.98</td>
</tr>
<tr>
<td>51.95</td>
<td>65.71</td>
<td>34.51</td>
</tr>
<tr>
<td>91.29</td>
<td>6.03</td>
<td>22.60</td>
</tr>
</tbody>
</table>

#4 Control Print

<table>
<thead>
<tr>
<th>L*</th>
<th>a*</th>
<th>b*</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.12</td>
<td>17.04</td>
<td>-39.87</td>
</tr>
<tr>
<td>40.88</td>
<td>65.70</td>
<td>46.17</td>
</tr>
<tr>
<td>85.16</td>
<td>4.19</td>
<td>2.51</td>
</tr>
</tbody>
</table>

#5 Control Print

<table>
<thead>
<tr>
<th>L*</th>
<th>a*</th>
<th>b*</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.01</td>
<td>11.49</td>
<td>7.62</td>
</tr>
<tr>
<td>65.71</td>
<td>34.51</td>
<td>22.81</td>
</tr>
<tr>
<td>71.73</td>
<td>22.60</td>
<td>27.86</td>
</tr>
</tbody>
</table>

#6 Control Print

<table>
<thead>
<tr>
<th>L*</th>
<th>a*</th>
<th>b*</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.04</td>
<td>17.04</td>
<td>-39.87</td>
</tr>
<tr>
<td>65.70</td>
<td>46.17</td>
<td>2.51</td>
</tr>
<tr>
<td>85.16</td>
<td>2.51</td>
<td>2.51</td>
</tr>
</tbody>
</table>

© Specialty Graphic Imaging Association. All rights reserved.
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).

<table>
<thead>
<tr>
<th>Resolution</th>
<th>pass/drop size</th>
<th>time to print</th>
<th>Speed in F*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1440x1440 dpi (16 pass)</td>
<td>19:00</td>
<td>18 F/hour</td>
<td></td>
</tr>
</tbody>
</table>

*square feet per hour

White Ink Evaluation
Black PVC Substrate
L*3.96 a*-0.64 b*-1.52
White Ink printed
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.
Digital Equipment Evaluation Report

LogoJET UVX90

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:
LogoJET
301 Prides Crossing
Lafayette, LA 70508
(877) 432-2559
www.logojet.com
sales@logojet.com

SGIA
10015 Main Street
Fairfax, VA 22031 USA
888-385-3588
sgia@sgia.org
SGIA.org

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.