



# Digital Print

## capabilities & file prep guide



Irvine University



# Digital Print | Vertis Irvine

## Capabilities & File Prep Guide

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# VERTIS IRVINE | Iconography Key



## Processes:



## Roll-to-Roll Substrates:



## Rigid Substrates:



## Digital Photographic Substrates:



## Digital Short Run Substrates:





# Capabilities Overview



## PRODUCTION

- Complete Electronic File Preparation
- Image Retouching
- Macintosh & PC Native Files
- Variable Data Programming

## CREATIVE SERVICES

- Packaging Design
- Structural Design
- POP/POS Planning and Development
- Photography Studio

## VERTIS WEB TO PRINT SOLUTIONS

- VOD - Vertis on Demand (Online Ordering)
- XMPie - Variable Data Programming
- Variable Data
- Customizable Templates
- Credit Card Purchase

## PROOFING

- SWOP3, SWOP5, and GRACOL1 Certified
- VE Soft Proofing
- Vertis Color Communicator (VCC)

## DIGITAL PRINTING (Short-Run)

- HP INDIGO 5000 (12in X 18in, Six Color Printer)
- RICOH C720 (13inx 19in, Four Color Printer)
- XEIKON 5000 (19" Wide Web, Four Color Printer) FA Toners
- Variable Data - Targeted-Marketing (Direct Mail & PURL Technologies)
- FSC Certified (Forest Stewardship Council)

## PRINT BINDERY

- Kirk Rudy Tabber - Tabbing
- Rollem TR 35 - Scoring/Perforating/Slitting
- Baum 20/20 Folder - Inline folding after scoring
- Itoh 43in Cutter - Oversized Cutter
- Mailcrafter - 6 Pocket Inserter
- 24in FMA UV Roller Coater - Gloss and Matte UV Coating
- Morgana Digifold - Creaser and Folding Unit



## Capabilities - Quick Overview

### LARGE FORMAT OUTPUT

#### ROLL-TO-ROLL INKJET

- **HP Scitex LX800 (Latex)** - 126 inch Roll-to-Roll, Uncoated Paper, Polyester Film, Polyester Fabrics, Wall Paper Materials, Vinyl, Environmentally friendly
- **Scitex XL Jet** - 16 feet Roll-to-Roll, Vinyl, Mesh, Canvas, Paper, Fleet, and More

#### UV FLATBED INKJET

- **Virtu36** - 48in x 98in x 2.5in UV Flatbed with Roll-to-Roll Option, Vinyl, Canvas, Paper Coroplast, Styrene, Metal, Wood, and more, up to 2.5" substrate thickness, Environmentally friendly
- **HP FB7500** - 65in x 126in x 1in UV Flatbed, Vinyl, Canvas, Paper Coroplast, Styrene, Metal, Wood, and more, up to 1 inch (25mm) substrate thickness, Environmentally friendly
- **HP FB700** - 98in x 120in x 2.5in UV Flatbed, White Ink Under or Over, Vinyl, Canvas, Paper Coroplast, Styrene, Metal, Wood, and more, up to 2.5 inch (63.5mm) substrate thickness, Environmentally friendly

#### DIGITAL PHOTOGRAPHIC

- **LightJet 430** - RGB Photo laser printer 50in x 120in, Photo Paper Front-Lit, Dura Trans Back-Lit, Flex, Clear, and Metallic
- **Lightjet 500XL** - RGB Photo Laser Printer 72in x 120in, Photo Paper Front-Lit, Dura Trans Back-Lit Flex, Clear, and Metallic

### FINISHING

- Mounting and Laminating
- iCut I-XL24 Multi Head Cutter, Scorer, and Router 60in x 120in Table
- iCut I-XL44 Multi Head Cutter, Scorer, and Router 80in x 120in Table
- Fiab RF Welder with 67ft Welding Table
- Sewing
- Forming and Framing
- Machine Grommeting

## Capabilities - Quick Overview



### PHOTOGRAPHY STUDIO

- Studio or Location Shooting
- Global Remote Art Direction
- Fashion, Lifestyles, Food, Interiors, Products, and More
- Full Kitchen
- Make-Up and Styling Stations for Models
- Roll-Up Door Access
- In-Studio Color, Retouching and Proofing
- Complete Lighting, Packs and Modifiers
- PhaseOne H20 Digital Back
  - Hasselblad System and Sinar Rail 4 x 5 System
  - Approximately 17MP  
Image size 4080 x 4080 = 13" x 13" @ 300 dpi = 39MB file
  - Up to 25 MB on still life only
- PhaseOne H25 Digital Back
  - Hasselblad System and Sinar Rail 4x5 System
  - Approximately 22MP  
Image size 4276 x 3582 = 14.25" x 12" @ 300 dpi = 45MB file
  - Up to 150 MB file on still life only
- Canon 1DS MKII Full Frame 35mm sized CMOS chip
- Approximately 17.1MP  
Image size 4992 x 3328 = 16.5" x 11" @ 300dpi = 47MB file
- Canon 5D MKII Full Frame 35mm sized CMOS chip
- Approximately 21.1MP  
Image size 8143 x 5429 = 27" x 18" @ 300dpi = 126MB file

### ADDITIONAL SERVICES

- Complete Retail POP Production, Packaging, and Shipping Services
- Project Management
- Fulfillment
- Enterprise Marketing Workflow Solutions
- Full Mailing and Presort Capabilities
- Campaign Management
- Content Management
- Marketing Resource Management
- Color Engineering





## Overview of Printing Processes

Offering an extensive line of digital direct printing products for both indoor and outdoor use, Vertis Irvine offers the perfect product solution for almost any visual application.



ROLL-TO-ROLL  
INKJET

**Roll-to-Roll InkJet:** Accommodate jobs up to 16 feet wide, 4C process + light ink to reduce graininess in the highlight areas, includes latex

Most common applications are trade show booths, POPs, window displays, banners, fleet graphics, floor graphics and more.



UV FLATBED  
INKJET

**UV Flatbed InkJet:** Accommodate jobs up to 65 inches x 126 inches wide, 6 colors (4C process + light cyan and light magenta to reduce graininess in the highlight areas)

Most common applications are POPs, window displays, standees, posters, prototypes, and more.



DIGITAL  
PHOTOGRAPHIC

**Digital Photographic:** RGB continuous tone, laser process so it is most suitable for projects that are color-critical or have fine text or line art that you need to remain very sharp. LightJet printers can produce a print or transparency (for backlit displays) up to 6' x 10'.

Commonly used for airport dioramas, trade show booths, sports arenas, corporate lobby displays, menu boards and more.



DIGITAL  
SHORT RUN

**Digital Short Run:** Accommodates jobs up to 19 inches x 38 inches, full color outputs with high resolutions.

Commonly used for 100% Variable Data direct mail campaigns, brochures, small promos, leave behind, and more.



# ROLL-TO-ROLL INKJET HP Scitex LX800® (Latex)

This technology can be used for a wide variety of applications - from tradeshow displays to banners, fleet graphics, and POP/POS. HP Scitex LX800 uses CMYK color space and prints directly on a particular material. It is important that the correct product is selected before a project is started. Your Vertis subject matter expert (SME) can advise you on which products are the best fit for your project.

Eco Highlights - GREEN PRINTING PROCESS

Waterbased HP Latex Inks - No Hazard Warning Labels, No HAP's

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
126in x Unlimited	CMYK	Roll-to-Roll	Yes/Yes

Recommended for Indoor or Outdoor:

- Banners
- Signage
- Fleet Graphics
- POP Display
- Tradeshow & Exhibit
- Interior Display
- Backlit Display
- Window Graphics
- Prototypes



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## ROLL-TO-ROLL INKJET

### Scitex XL Jet®

This technology can be used for a wide variety of applications - from tradeshow displays to banners, fleet graphics, and POP/POS. Scitex uses CMYK color space and prints directly on a particular material. It is important that the correct product is selected before a project is started. Your Vertis subject matter expert (SME) can advise you on which products are the best fit for your project.

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
16ft x Unlimited	CMYK	Roll-to-Roll	Yes/Yes

Recommended for Indoor or Outdoor:

- Banners
- POP Display
- Backlit Display
- Signage
- Tradeshow & Exhibit
- Window Graphics
- Fleet Graphics
- Interior Display
- Prototypes



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## ROLL-TO-ROLL INKJET (SCITEX LX800 & XL Jet)

### File Preparation Guidelines

#### SUPPLY TO VERTIS

- Visual representation of the final file
- Color proofs (if color match is an issue). Although exact matches cannot be guaranteed, every effort will be made to come as close as the technology will allow
- All final native application files with linked (not embedded) images
- All fonts used



#### PREPARING THE FILES

- Documents should be created at a logical fraction of final size (1/4, 1/8, 1/12, 1/24). 1/8" of bleed must be added to all files at final size.
- Scitex XL Jet - Photoshop images should have a resolution of at least 300 dpi at 1/12 of final size.
- Scitex LX800 (Latex) - Photoshop images should have a resolution of at least 300 dpi at 1/4 of final size.
- Since file sizes can become very large, placed Photoshop images should be cropped to visible area where possible.
- Photoshop images are the key to a quality print. A quality digital capture at the proper size and resolution are the most important factors. Quality will suffer if an image starts out too small and is "resed-up" in Photoshop.
- Vector-based programs such as Illustrator need their attributes set to 2540 dpi.
- All type must be 1/4" or larger at final size to be readable  
Do not design with small reverse copy or thin serif fonts
- EPS files:
  - Must be saved with "include all fonts" checked or fonts outlined
  - Must be saved and sent with all Photoshop linked elements (DO NOT EMBED IMAGES)
- Preferred application formats: InDesign, Illustrator, Photoshop

#### LARGER THAN LIFE FILES?

We have done extensive testing to try to reduce file size without affecting final quality. Here are a couple of tips:

- Save all preliminary Photoshop files as Photoshop format instead of TIFF or EPS. This takes advantage of the built-in compression of that format.
- Save all final Photoshop files as EPS with JPEG maximum quality encoding in the second dialogue box. Please do not confuse this with a normal "save as" JPEG.
- Soft background images such as clouds can usually be enlarged beyond our normal 200% guidelines without a noticeable loss of quality.





## UV FLATBED INKJET

### HP FB7500®

The HP FB7500 is a flatbed inkjet printer using CMYK + Light C&M UV inks. The inks are imaged directly onto most any substrate including plastics, wood, glass, ceiling tiles, vinyl, etc. It is important that the correct substrate is selected before a project is started. Your Vertis subject matter expert (SME) will have information on which substrates are the best fit for your project.

#### Eco Highlights - GREEN PRINTING PROCESS

#### UV Based Inks

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
65in x 126in x 1in Thick	CMYK	Flatbed	Yes/Yes

#### Recommended for Indoor or Outdoor:

- Banners
- POP Display
- Backlit Display
- Signage
- Tradeshow & Exhibit
- Window Graphics
- Fleet Graphics
- Interior Display
- Prototypes



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## UV FLATBED INKJET

### HP Scitex FB700®

The HP Scitex FB700 is a 6 color or 4 color plus white UV ink flatbed printer. It can be switched between 6c to 4c plus white and back to 6c and uses variable drop print heads to achieve excellent image quality. Variable drop print heads vary the drop size depending on the image area being printed. The drop size will be smaller in the highlight area compared to a large drop in the shadow areas. The small drops in the highlight provide for a visually smooth graphic appearance.

The printer can print single sided in one pass or double sided graphics in two passes. In addition white can be printed as a flood filling the entire image area under or over the 4 color image. White can also be printed in specific image areas as a spot color fill.

The apparent resolution of the printer in 6 color when printing in the 1200 x 600 dpi, Photo Mode is greater than 2000 dpi.

#### Eco Highlights - GREEN PRINTING PROCESS

##### UV Based Inks

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
98in x 120in x 2.5in Thick	CMYK	Flatbed	Yes/Yes

#### Recommended for Indoor or Outdoor:

- Banners
- Signage
- Fleet Graphics
- POP Display
- Tradeshow & Exhibit
- Interior Display
- Backlit Display
- Window Graphics
- Prototypes





## UV FLATBED INKJET

### Virtu36®

The Virtu 36 is a flatbed inkjet printer using CMYK + Light C&M UV inks. The inks are imaged directly onto most any substrate including plastics, wood, glass, ceiling tiles, vinyl, etc. It is important that the correct substrate is selected before a project is started. Your Vertis subject matter expert (SME) will have information on which substrates are the best fit for your project.



#### Eco Highlights - GREEN PRINTING PROCESS

#### UV Based Inks

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
48in x 98in x 2.5in Thick	CMYK	Flatbed (optional Roll-to-Roll)	Yes/Yes

#### Recommended for Indoor or Outdoor:

- Banners
- POP Display
- Backlit Display
- Signage
- Tradeshow & Exhibit
- Window Graphics
- Fleet Graphics
- Interior Display
- Prototypes



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*These are general guidelines that work for most projects. Some projects will not conform to these guidelines because of file size constraints. It is always recommended that you contact us before beginning work on every project. We may be able to save you time and frustration!*

# UV FLATBED INKJET (HP FB7500, HP Scitex FB700 & Virtu36)

## File Preparation Guidelines



### SUPPLY TO VERTIS

- Visual representation of the final file
- Color proofs. Although exact matches cannot be guaranteed, every effort will be made to come as close as the technology will allow
- All final native application files with linked (not embedded) images
- All fonts used

### PREPARING THE FILES

- Documents should be created at a logical fraction of final size (100%, 50%, 25% of final size)
- 1/8" of bleed must be added to all files at final size
- Photoshop images should have a resolution of at least 200 dpi at FINAL size
- Since file sizes can become very large, placed Photoshop images should be cropped to visible area where possible
- Photoshop images are the key to a quality print. A quality digital capture at the proper size and resolution are the most important factors. Quality will suffer if an image starts out too small and is "resed-up" in Photoshop
- EPS files:
  - Must be saved with "include all fonts" checked or fonts outlined
  - Must be saved and sent with all Photoshop linked elements (DO NOT EMBED IMAGES)
- Preferred application formats: InDesign, Illustrator, Photoshop
- All type must be 1/4" or larger at final size to be readable
- Do not design with small reverse copy or thin serif fonts

### LARGER THAN LIFE FILES?

We have done extensive testing to try to reduce file size without affecting final quality. Here are a couple of tips:

- Save all preliminary Photoshop files as Photoshop format instead of TIFF or EPS - This takes advantage of the built-in compression of that format
- Save all final Photoshop files as EPS with JPEG maximum quality encoding in the second dialogue box. Please do not confuse this with a normal "save as" JPEG
- Soft background images such clouds can usually be enlarged beyond our normal 200% guidelines without a noticeable loss of quality

### OUTPUT SPECIFICATIONS

Max Panel Size= 4' x 8' , Roll to Roll size = 8' x 12' (material dependant)





## DIGITAL PHOTOGRAPHIC

### LightJet 430®

Utilizing the latest in digital imaging technologies, the Lightjet printer technology now allows Vertis - Irvine to offer the highest of quality reflective and backlit digital photographic images available.

While eliminating the need for conventional printers film, this advanced digital process produces stunning graphics with exceptional sharpness and depth of color in sizes up to 50 inches x 120 inches

The outstanding quality of these photographic images combined with a variety of protective laminates, mounting substrates, and finishing services should make the Lightjet your first choice when image quality, long-term use, and close viewing distances are important considerations.

Some typical uses for Lightjet Graphics are:

- Long-term indoor POP applications, either frontlit or backlit
- Tradeshow graphics with close viewing distances
- Test market or limited rollout in-store retail graphics or signage
- Lobby displays and interior decorating graphics

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
50in x 120in	RGB	Roll-to-Roll	Yes/No

Recommended for Indoor:

- Banners
- POP Display
- Backlit Display
- Signage
- Tradeshow & Exhibit
- Window Graphics
- Fleet Graphics
- Interior Display
- Prototypes



## DIGITAL PHOTOGRAPHIC

### LightJet 500XL®

Utilizing the latest in digital imaging technologies, the Lightjet printer technology now allows Vertis - Irvine to offer the highest of quality reflective and backlit digital photographic images available.

While eliminating the need for conventional printers film, this advanced digital process produces stunning graphics with exceptional sharpness and depth of color in sizes up to 72 inches x 120 inches

The outstanding quality of these photographic images combined with a variety of protective laminates, mounting substrates, and finishing services should make the Lightjet your first choice when image quality, long-term use, and close viewing distances are important considerations.

Some typical uses for Lightjet Graphics are:

- Long-term indoor POP applications, either frontlit or backlit
- Tradeshow graphics with close viewing distances
- Test market or limited rollout in-store retail graphics or signage
- Lobby displays and interior decorating graphics

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
72in x 120in	RGB	Roll-to-Roll	Yes/No

Recommended for Indoor:

- Banners
- POP Display
- Backlit Display
- Signage
- Tradeshow & Exhibit
- Window Graphics
- Fleet Graphics
- Interior Display
- Prototypes





## DIGITAL PHOTOGRAPHIC (LightJet 430® & 500XL®)

### File Preparation Guidelines

#### SUPPLY TO VERTIS

- Visual representation of the final file
- Color proofs - Although exact matches cannot be guaranteed, every effort will be made to come as close as the technology will allow
- All final native application files with linked (not embedded) images and all fonts used



DIGITAL  
PHOTOGRAPHIC

#### PREPARING THE FILES

- Documents should be created at 1/2 or 1/4 of final size - 1/8" of bleed must be added to all files at final size
- Photoshop images should have a resolution of at least 200 dpi at 1/2 of final size
- Since file sizes can become very large, placed Photoshop images should be cropped to visible area where possible
- Photoshop images are the key to a quality print. A quality digital capture at the proper size and resolution are the most important factors - Quality will suffer if an image starts out too small and is "resized-up" in Photoshop
- RGB or CMYK?
  - If your image began and ended its life as RGB, leave it that way!
  - If your image became CMYK at any stage, leave it that way. We will convert it to RGB with profiles we have created to give the best color match.
- Vector-based programs such as Illustrator need their attributes set to 2540 dpi
- EPS files:
  - Must be saved with "include all fonts" checked or fonts outlined.
  - Must be saved and sent with all Photoshop linked elements (DO NOT EMBED IMAGES)
- Preferred application formats: InDesign, Illustrator, PhotoShop

*These are general guidelines that work for most projects. Some projects will not conform to these guidelines because of file size constraints. It is always recommended that you contact us before beginning work on every project. We may be able to save you time and frustration!*



DIGITAL  
PHOTOGRAPHIC

## LARGER THAN LIFE FILES?

We have done extensive testing to try to reduce file size without affecting final quality. Here are a couple of tips:

- Save all preliminary Photoshop files as Photoshop format instead of TIFF or EPS. This takes advantage of the built-in compression of that format
- Save all final Photoshop files as EPS with JPEG maximum quality encoding in the second dialogue box. Please do not confuse this with a normal "save as" JPEG
- Soft background images such as clouds can usually be enlarged beyond our normal 200% guidelines without a noticeable loss of quality

## OUTPUT SPECIFICATIONS

- Max Panel Size = 72" x 10'
- Image Resolution = Continuous tone

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## DIGITAL SHORT RUN

### RICOH C720®

The Ricoh C720 offers exceptional high quality full color output with 1200 x 1200 dpi resolution. Choose from a wide range of substrates/materials that match your projects needs with a maximum sheet size up to 13" x 19". These deliver maximum flexibility for targeting your customers with 100% variable data printing.

Ricoh C720 is a Green Solution, Ricoh continues its long standing commitment to developing solutions with environmentally friendly and superior energy saving features, without compromising your print quality. Your Vertis sales rep will have information on which substrates are the best fit for your project.

Some typical uses for Digital Short Run Graphics are:

- Variable Data Pieces
- Direct Mail
- Brochures
- Promotions

Print Area width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
12.5in x 18.5in	CMYK	Sheet Fed	Yes/No



**NOTES:** \_\_\_\_\_

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## DIGITAL SHORT RUN HP Indigo 5000®

The HP Indigo 5000 offers unmatched digital quality in the digital print world. Superior HP ElectroInk liquid ink technology delivers a wide color gamut and allows for 6-color printing, 4-color process plus 2 PMS colors. A wide variety of papers are available allowing the creativity you desire while targeting your audience with 100% variable data printing in up to 6 colors.

Some typical uses for Digital Short Run Graphics are:

- Variable Data Pieces
- Direct Mail
- Brochures
- Promotions

Print Area width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
11.5in x 17.5in	CMYK	Sheet Fed	Yes/No



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## DIGITAL SHORT RUN **XEIKON 5000®**

The Xeikon 5000 offers excellent productivity in the digital print world.

The Xeikon 5000 is a web fed device that prints both sides of the sheet at the same time. It also has the largest size available with unlimited length capability along the web. This press is designed for 100% variable data printing for direct mail and POP/POS applications.

Some typical uses for Digital Short Run Graphics are:

- Variable Data Pieces
- Direct Mail
- Brochures
- Promotions



DIGITAL  
SHORT RUN

Print Area width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
18.5in x 38in	CMYK	Web Fed	Yes/No



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## DIGITAL SHORT RUN (RICOH C720, HP Indigo 5000 & XEIKON 5000)



### File Preparation Guidelines

#### SUPPLY TO VERTIS

- Visual representation of the final file
- Color proofs - Although exact matches cannot be guaranteed, every effort will be made to come as close as the technology will allow
- All final native application files with linked (not embedded) images
- All fonts used

#### PREPARING THE FILES

- Documents should be created at 100% of final size. 1/8" of bleed must be added to all files
- Max live area for RICOH C720® is 12.5" x 18.5"
- Max live area for HP Indigo 5000® is 11.5" x 17.5"
- Max live area for XEIKON 5000® is 18.5" x 38"
- Photoshop images should have a resolution of at least 300 dpi at final size
- Photoshop images are the key to a quality print. A quality digital capture at the proper size and resolution are the most important factors. Quality will suffer if an image starts out too small and is "resed-up" in Photoshop
- Vector-based programs such as Illustrator need their attributes set to 2540 dpi
- All images should be CMYK
- Large solid black areas should be "rich black" (60c 40m 40y 100K)
- EPS files
  - Must be saved with "include all fonts" checked or fonts outlined
  - Must be saved and sent with all Photoshop linked elements (DO NOT EMBED IMAGES)
- Preferred application formats: InDesign, Illustrator, PDF, PhotoShop



*These are general guidelines that work for most projects. Some projects will not conform to these guidelines because of file size constraints. It is always recommended that you contact us before beginning work on every project. We may be able to save you time and frustration!*



## Quick Reference



### HP Scitex LX800® (Latex)

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
126in x Unlimited	CMYK	Roll-to-Roll	Yes/Yes



### Scitex XL Jet®

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
16ft x Unlimited	CMYK	Roll-to-Roll	Yes/Yes



### HP FB7500®

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
65in x 126in x 1in Thick	CMYK	Flatbed	Yes/Yes



### HP Scitex FB700®

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
98in x 120in x 2.5in Thick	CMYK	Flatbed	Yes/Yes



### Virtu36®

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
48in x 98in x 2.5in Thick	CMYK	Flatbed (optional Roll-to-Roll)	Yes/Yes

# Quick Reference



## LightJet 430®

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
50in x 120in	RGB	Roll-to-Roll	Yes/No



## LightJet 500XL®

Max Size width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
72in x 120in	RGB	Roll-to-Roll	Yes/No



## RICOH C720®

Print Area width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
12.5in x 18.5in	CMYK	Sheet Fed	Yes/No



## HP Indigo 5000®

Print Area width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
11.5in x 17.5in	CMYK	Sheet Fed	Yes/No



## XEIKON 5000®

Print Area width x height	Color Space	Roll-to-Roll or Flatbed	Indoor/Outdoor
18.5in x 38in	CMYK	Web Fed	Yes/No



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