

# MAC DRIVER 3.2 (PCL MODE) SETUP GUIDE

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## Installation

Mac Driver 3.2 (PCL Mode) can be installed by running the provided package installer. A user account with administrative rights is required to perform the installation. The recommended steps are described below.

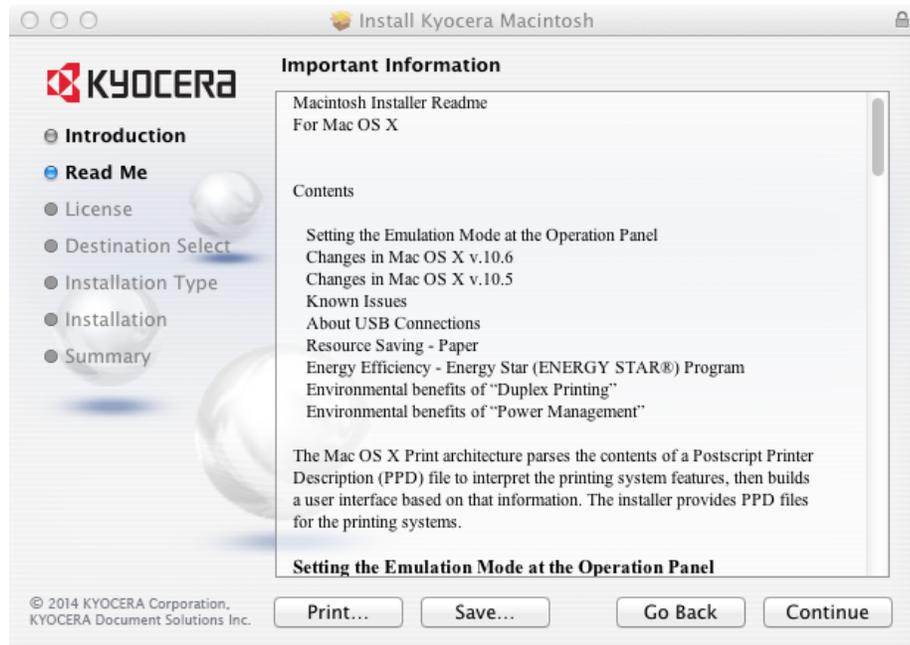
### Package Installer Setup

You can install the driver using the provided package installer.

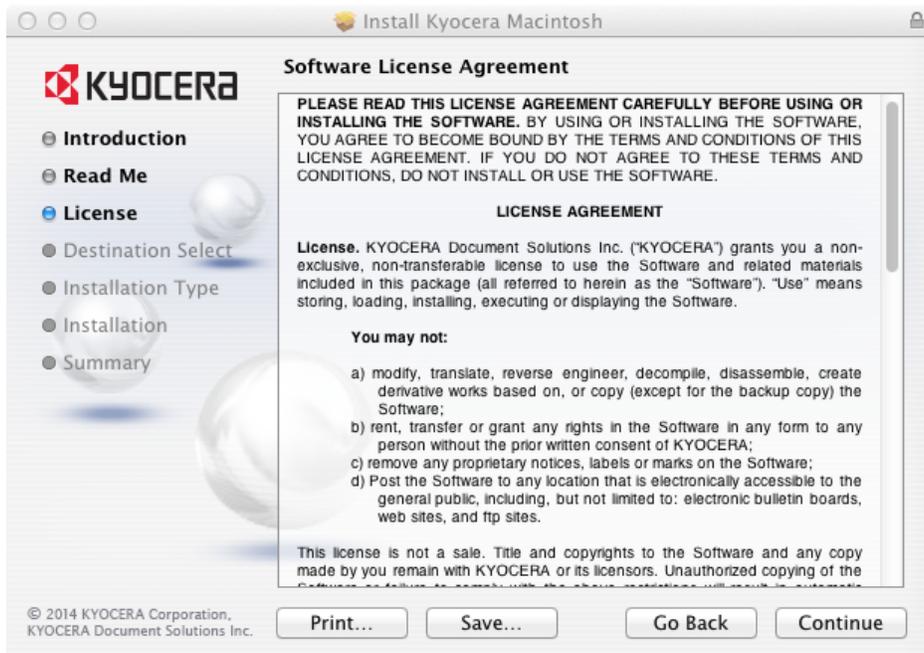
1. Double-click the **.DMG** file to run the installer.
2. In the installer dialog, click **Continue** to proceed to the Readme page.



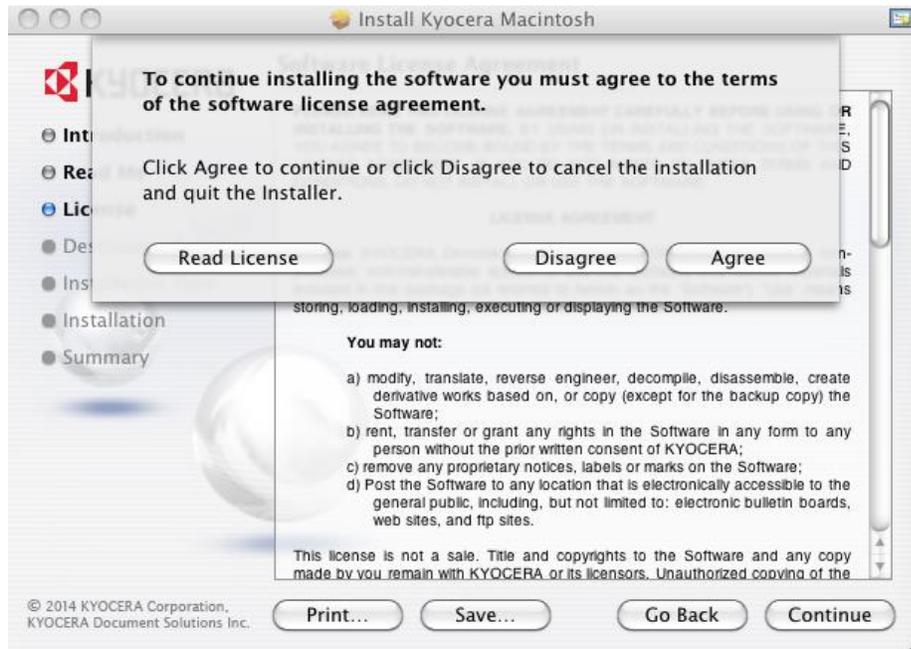
3. Click **Continue** to proceed to the License Agreement page.



4. Review the Software License Agreement and then click **Continue**.



5. Click **Agree** to accept the terms of the license agreement.



6. Click **Install** and enter the admin password to complete the standard installation. Alternatively, you can select **Customize** to perform a custom installation. For custom installation, select the **Print Option Pane** check box to install the Print Option Pane.

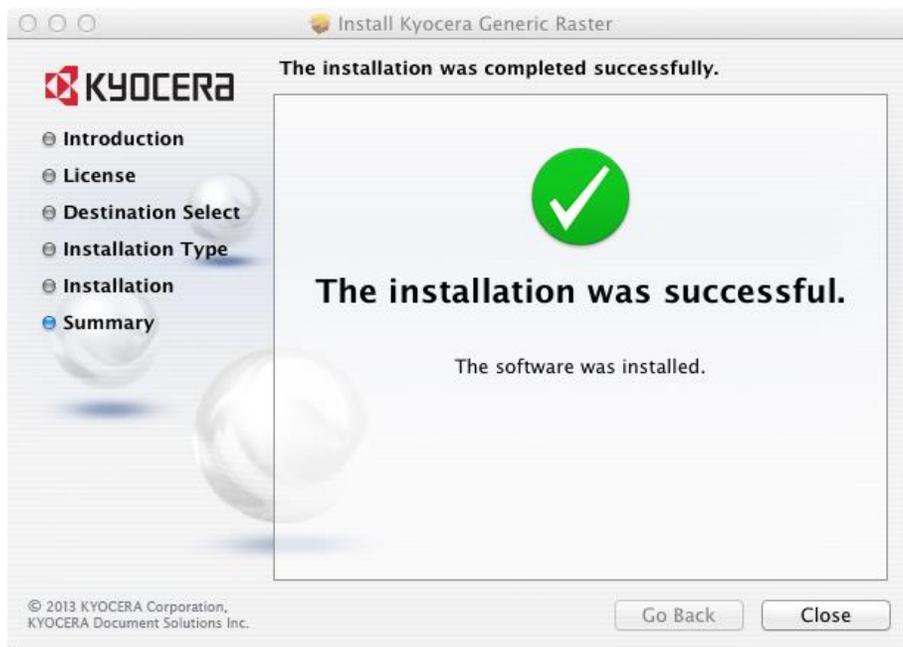


Standard installation page



Custom installation page

7. Click **Close** to exit when the installation is complete.



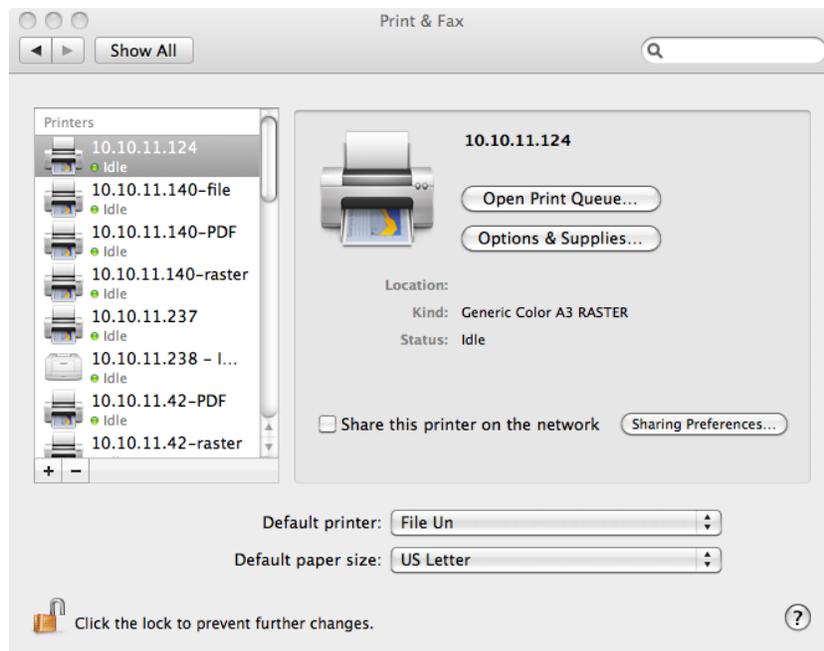
## Adding Printers

After you install the driver, you can add the printers to be used on the system.

1. Open **System Preferences** and click **Print & Fax** (this may also be called Print & Scan or Printers & Scanners, depending on the Mac OS X version you are using).

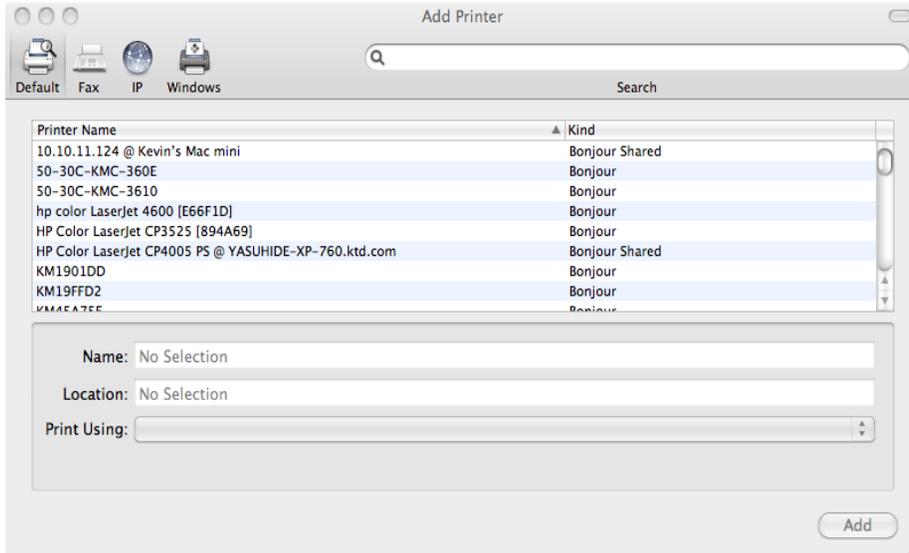


2. In the Print & Fax dialog, you can click the “+” icon at the bottom of the Printers list to open the Add Printer dialog.



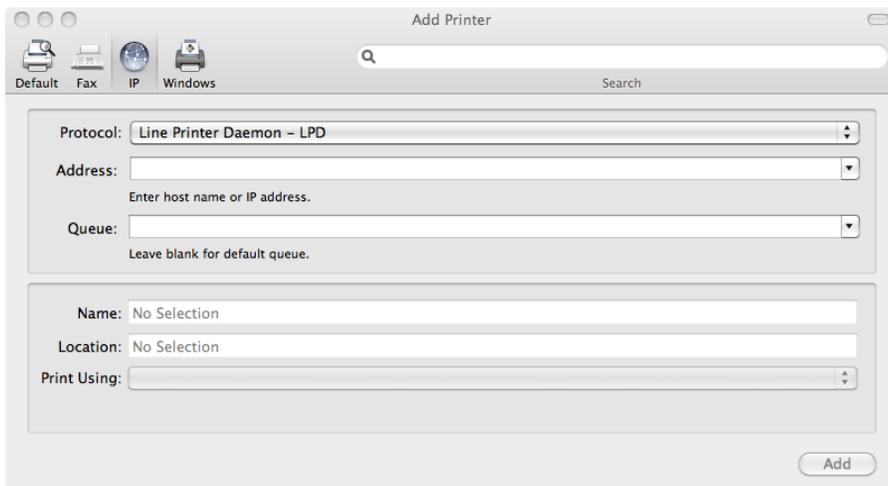
To add a printer, you must first choose a connection type—**Bonjour**, **IP Printer**, or **Windows**. If you choose the **Default** connection type, Printer Setup Utility displays a list of all available printers with Bonjour support.

When you select a printer to add to the printers list, Printer Setup Utility retrieves the selected printer's address, icon, and model information. Printer Setup Utility then uses this information to create a new printer queue, and then adds the printer to the list when you click Add.



For better printing support, it is recommended to use Line Printer Daemon (LPD) for the protocol. To add an LPR printer that uses IP, enter the printer's DNS host name or IP address and then select the appropriate model from the Printer Model menu. The matching PPD for the printer is automatically selected by the OS.

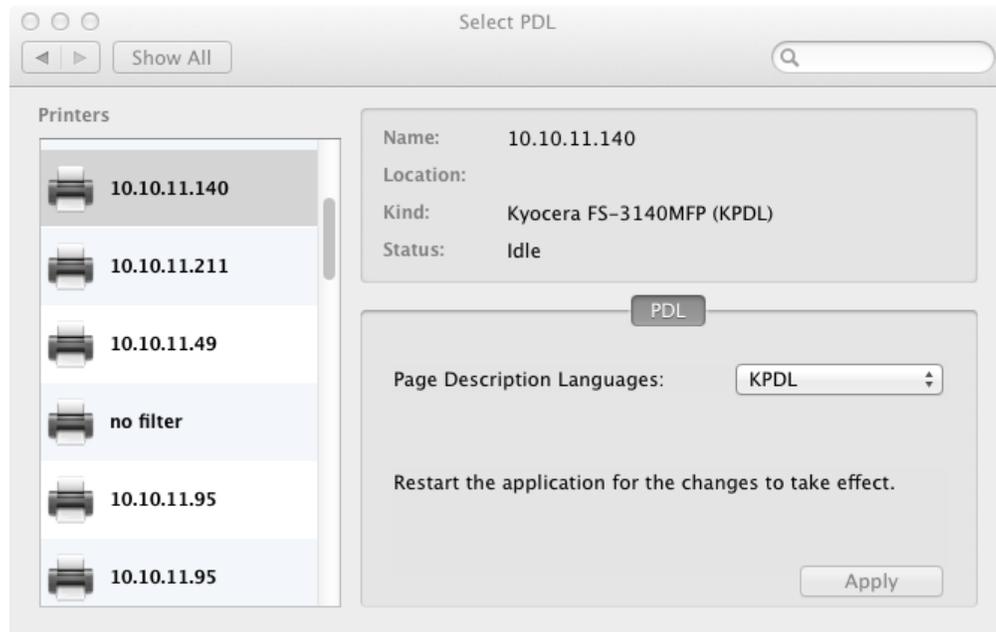
**NOTE:** Installable options must be set manually after you switch to PCL mode.



## Switching to PCL Mode

After you install the driver and add at least one printer, you can switch the driver to PCL Mode.

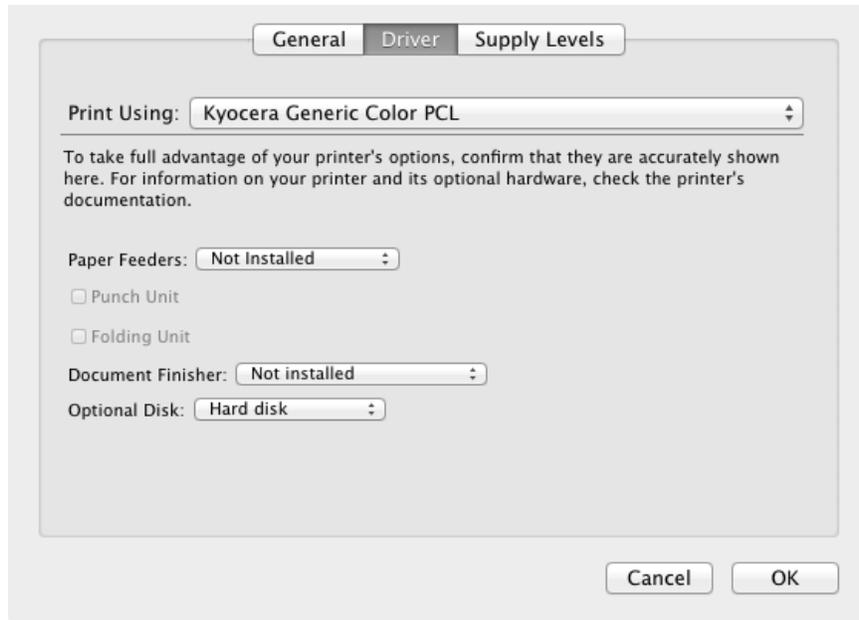
1. Open **System Preferences > Select PDL**.
2. Select a printer from the Printers list.
3. Select **PCL** from the Page Description Languages dropdown list.
4. Click **Apply**.



## Configuring Installable Options

After you switch the driver to PCL mode, you can set up the installable options for the printer.

1. Click **Print & Fax** from System Preferences.
2. Select a printer from the Printers list.
3. Click **Options & Supplies**.
4. Click the **Driver** tab to modify the installable options.



## PDL Switch Tool

Once the driver package is installed, the PDL switch tool appears in the System Preferences dialog under Other > Select PDL. The PDL switch tool only works with Mac Driver 3.2 and the models supported by the driver.



## PDL Switch Preference Pane

The PDL Switch preference pane is made up of 3 main components: Discovery, Device Status, and PDL Control.

### Discovery

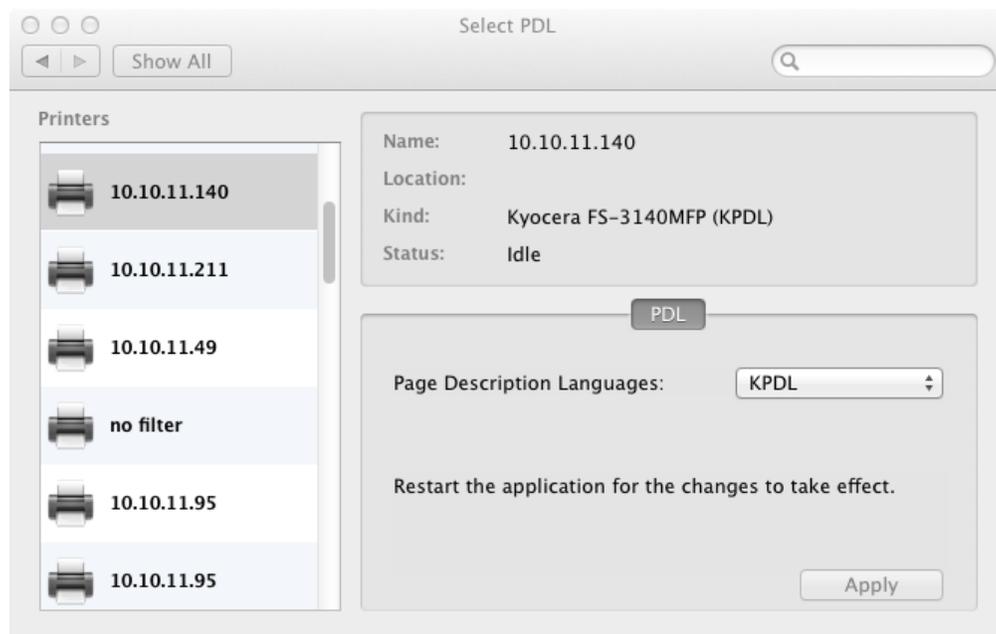
The Printers list displays the printers discovered by the driver. The current printer is selected.

### Device Status

The upper section shows the properties of the selected printer, including its current status.

### PDL Control

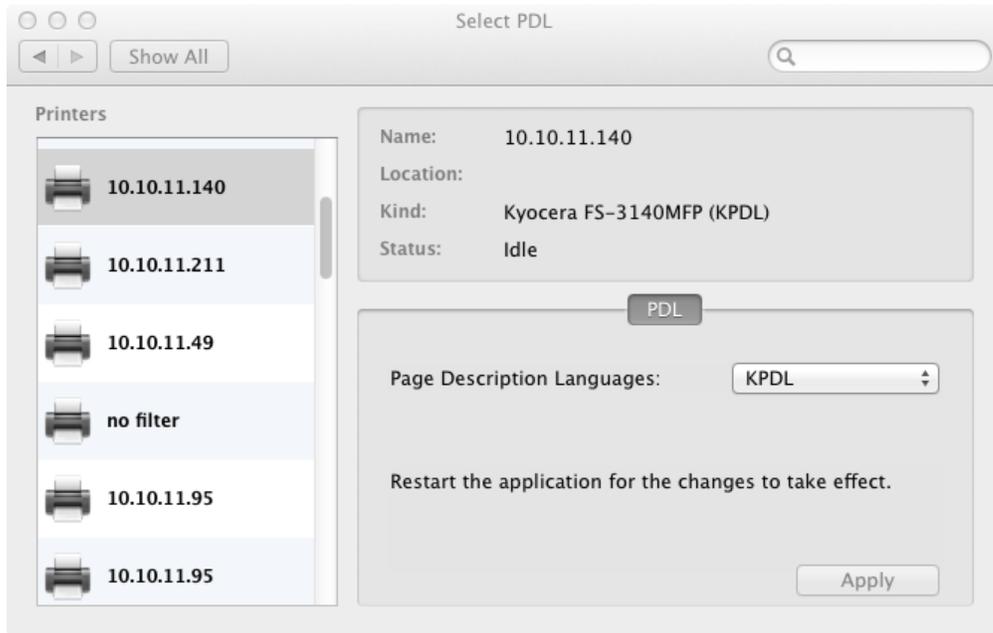
The lower section allows you to modify the PDL. After switching the PDL, all open applications need to be restarted for the changes to take effect.



## Switching between KPD and PCL modes

The following steps describe how to switch between KPD and PCL modes.

1. Open **System** Preferences > **Select PDL**.
2. Select a printer from the Printers list.
3. Select **KPD** or **PCL** from the Page Description Languages dropdown list.
4. Click **Apply**.



## Uninstalling the PDL switch tool

The PDL switch tool can be uninstalled from System Preferences.

1. Open System Preferences.
2. Right-click the **Select PDL** icon and then click **Remove "Select PDL" Preference Pane**.

## PCL Mode Features

### Print Dialog

The Print dialog appears when you select Print from the File menu of an application. The Print dialog has some settings panes provided by the OS and can also be extended to allow for third-party customization. The number of settings panes available in the Print dialog and the specific information in each pane varies depending on the selected printer model, whether the printer supports PostScript, and whether there is any developer customization of the Print dialog in the installed driver.

## Standard Panes for PCL Mode (Raster Driver)

The printing system uses information from the PPD file to populate many of the model-specific features in these panes located at the bottom of the Print dialog. Actual selections vary by OS.

### Layout Pane

The Layout pane provides settings for N-Up, border, and Duplex.

Printer: 10.10.31.224  
Presets: Default Settings  
Copies: 1  Two-Sided  
Pages:  All  
 From: 1 to: 1  
Paper Size: US Letter 8.50 by 11.00 inches  
Orientation:   
Layout  
Pages per Sheet: 1  
Layout Direction:   
Border: None  
Two-Sided: Off  
 Reverse page orientation  
 Flip horizontally  
1 of 1  
PDF Hide Details Cancel Print

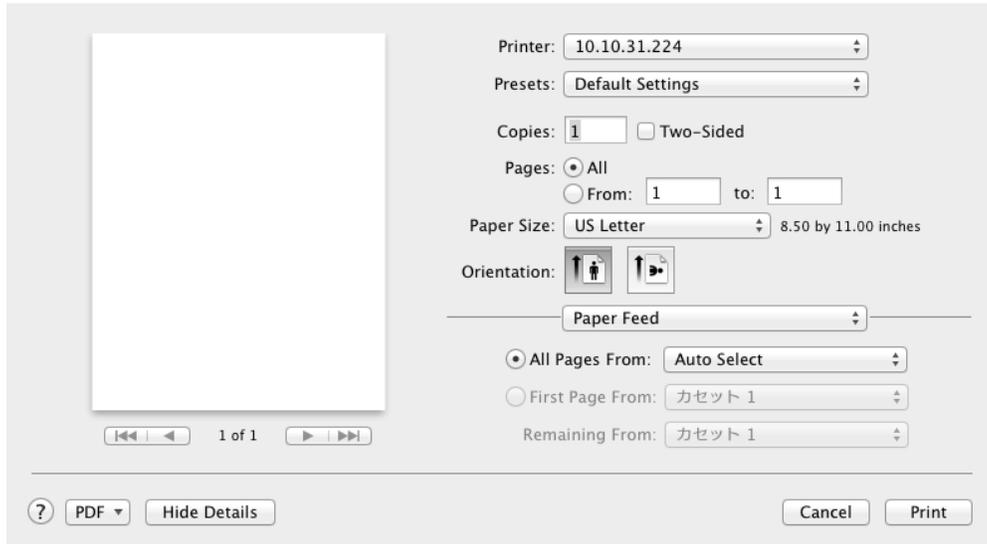
### Paper Handling Pane

The Paper Handling pane provides settings for pages to print, page order, and destination paper size after scaling.

Printer: 10.10.31.224  
Presets: Default Settings  
Copies: 1  Two-Sided  
Pages:  All  
 From: 1 to: 1  
Paper Size: US Letter 8.50 by 11.00 inches  
Orientation:   
Paper Handling  
 Collate pages  
Pages to Print: All pages  
Page Order: Automatic  
 Scale to fit paper size  
Destination Paper Size: Suggested Paper: US Letter  
 Scale down only  
1 of 1  
PDF Hide Details Cancel Print

## Paper Feed Pane

The Paper Feed pane provides settings for selecting the paper input tray.



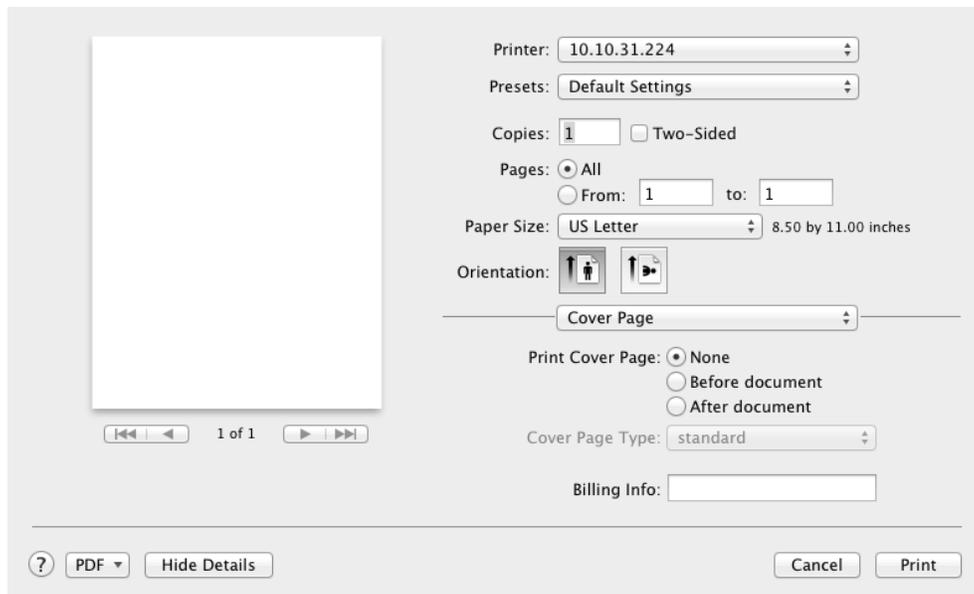
The screenshot shows a printer settings dialog with a large white preview area on the left. Below the preview are navigation buttons and the text "1 of 1". On the right, the settings are as follows:

- Printer: 10.10.31.224
- Presets: Default Settings
- Copies: 1, with a checkbox for Two-Sided (unchecked)
- Pages: All (selected), with options for From: 1 to 1
- Paper Size: US Letter (8.50 by 11.00 inches)
- Orientation: Portrait (selected)
- Paper Feed: Paper Feed (selected)
- All Pages From: Auto Select (selected)
- First Page From: カセット 1
- Remaining From: カセット 1

At the bottom, there are buttons for "?", PDF, Hide Details, Cancel, and Print.

## Cover Page Pane

The Cover Page pane provides settings for printing a cover page with predefined types and/or billing information.



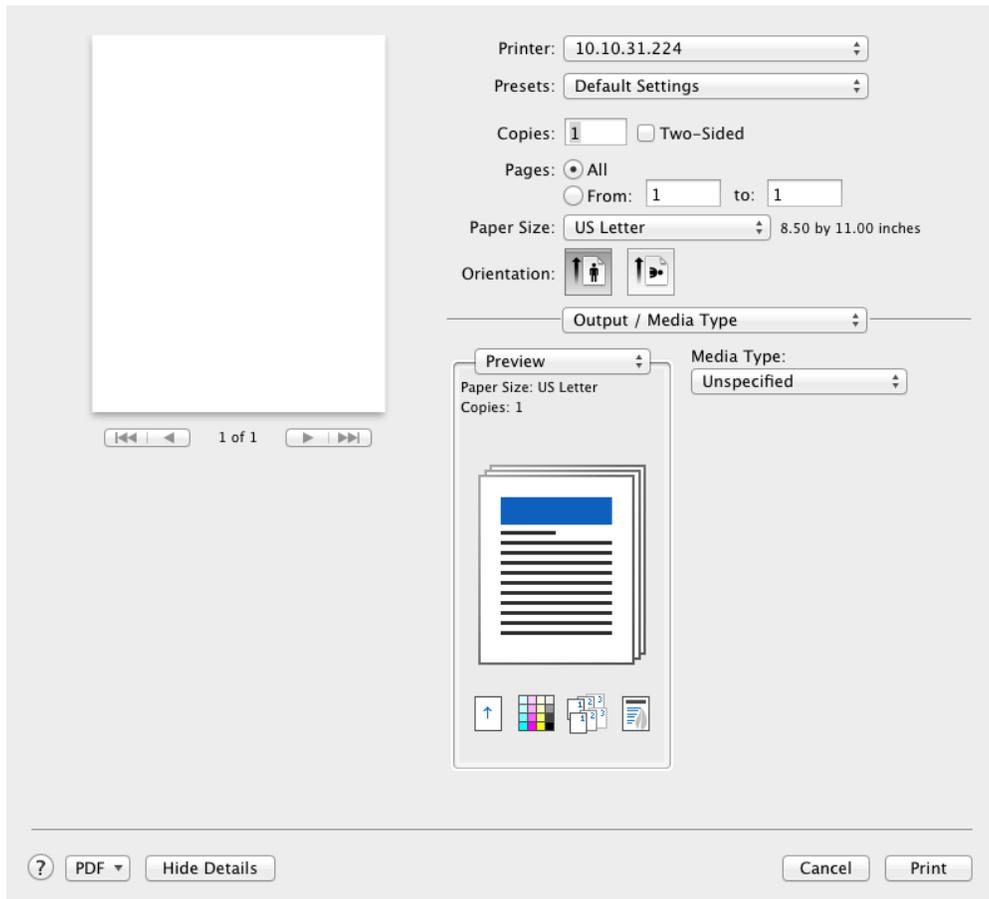
The screenshot shows a printer settings dialog with a large white preview area on the left. Below the preview are navigation buttons and the text "1 of 1". On the right, the settings are as follows:

- Printer: 10.10.31.224
- Presets: Default Settings
- Copies: 1, with a checkbox for Two-Sided (unchecked)
- Pages: All (selected), with options for From: 1 to 1
- Paper Size: US Letter (8.50 by 11.00 inches)
- Orientation: Portrait (selected)
- Cover Page: Cover Page (selected)
- Print Cover Page: None (selected), with options for Before document and After document
- Cover Page Type: standard
- Billing Info: (empty text field)

At the bottom, there are buttons for "?", PDF, Hide Details, Cancel, and Print.

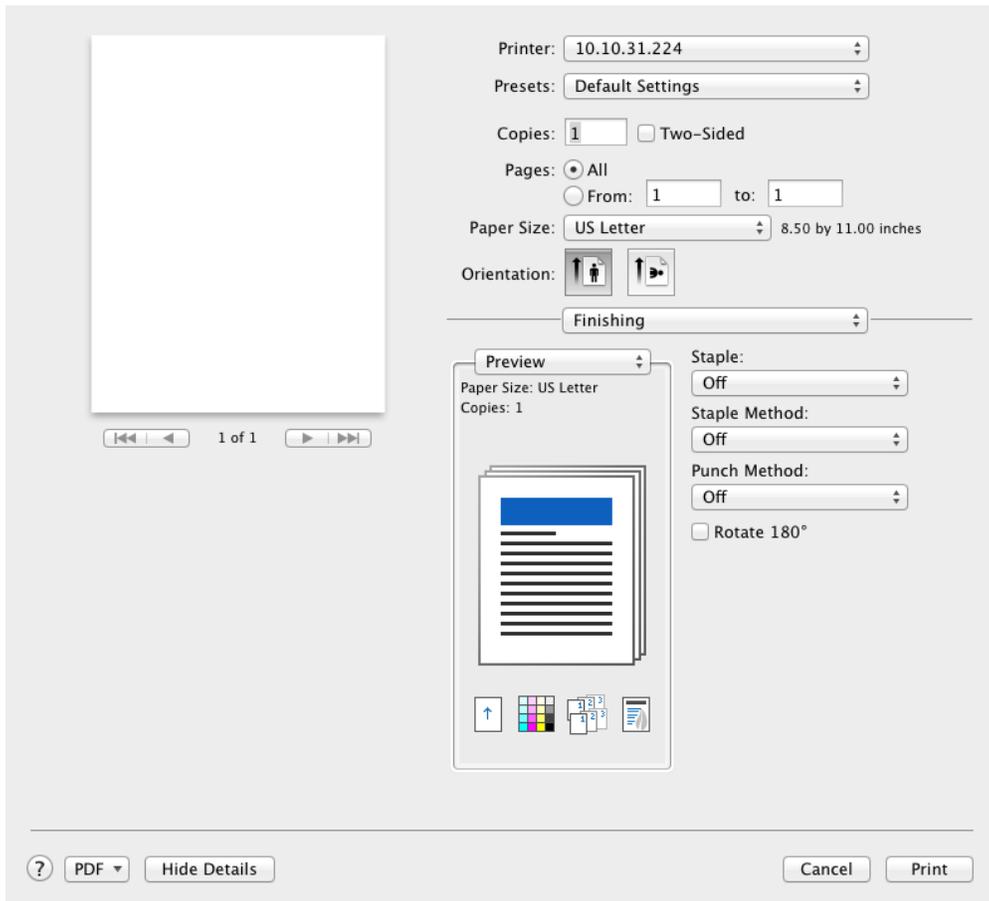
## Output / Media Pane

The Output / Media pane provides settings for media type for the print job.



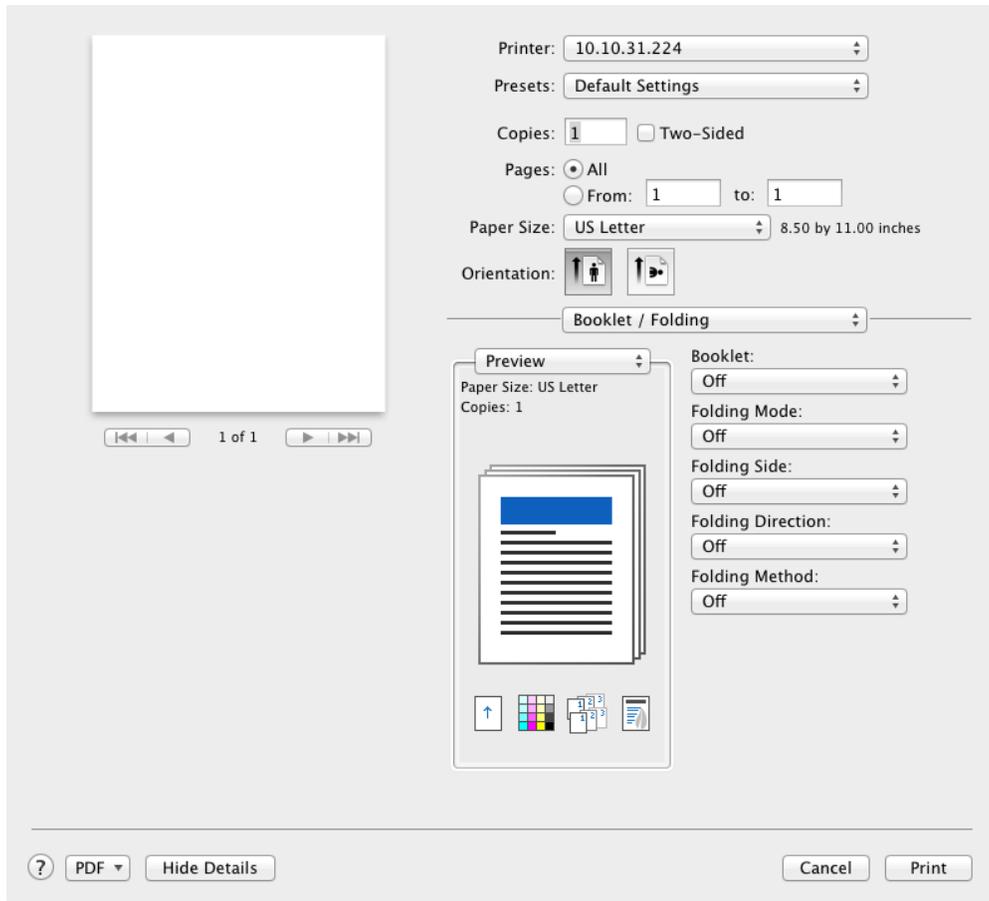
## Finishing Pane

The Finishing pane provides settings for staple, staple method, punch method, and rotate.



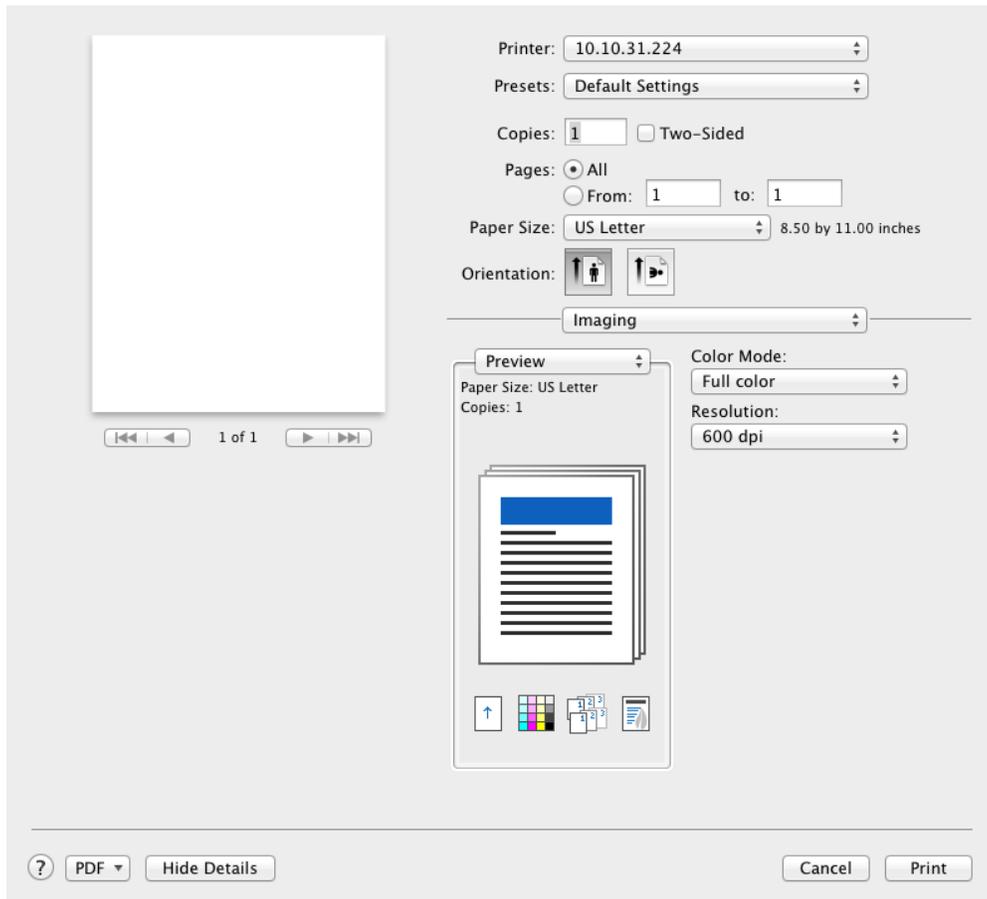
## Booklet / Folding Pane

The Booklet / Folding pane provides settings for booklet, folding mode, folding side, folding direction, and folding method.



## Imaging Pane

The Imaging pane provides settings for color mode and resolution.



## Job Settings Pane

The Job Settings pane displays predefined settings for job name and job storage. You can change the Collate setting.

Printer: 10.10.31.224

Presets: Default Settings

Copies: 1  Two-Sided

Pages:  All  
 From: 1 to: 1

Paper Size: US Letter 8.50 by 11.00 inches

Orientation:  Portrait  Landscape

Job Settings

Preview  
Paper Size: US Letter  
Copies: 1

Job Name:  
 Application Defined  
 Custom:  
Untitled 12

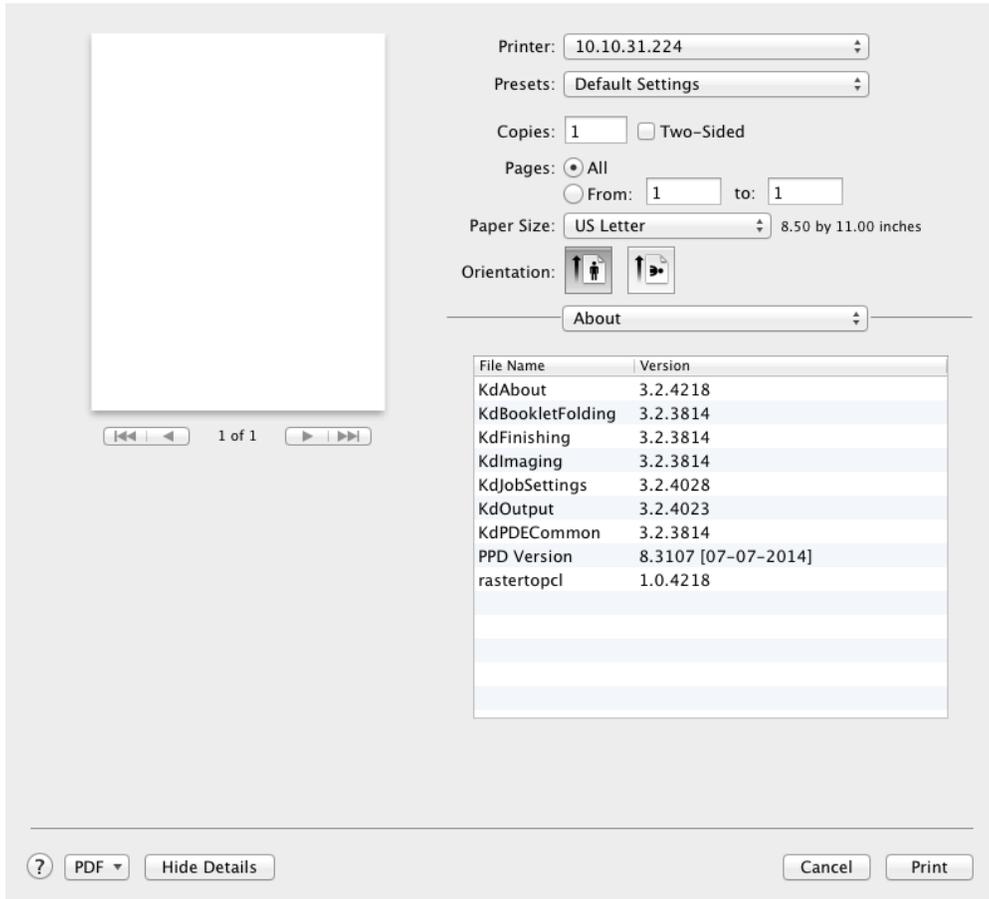
Overwrite Job Name:  
Use job name + dat...

Job Storage (e-MPS)  
Printer settings

? PDF Hide Details Cancel Print

## About Pane

The About pane displays information about the current driver.



## Supported Print Features

The following table lists all the print features supported by the driver. Default settings are indicated with an asterisk (\*).

Color Mode (for color models only)	<ul style="list-style-type: none"> <li>• Color*</li> <li>• Black &amp; White</li> </ul>
Resolution	<ul style="list-style-type: none"> <li>• 300 DPI (for monochrome models only)</li> <li>• 600 DPI*</li> </ul>
Media Type	<ul style="list-style-type: none"> <li>• Unspecified*</li> <li>• Auto media selection</li> <li>• Plain</li> <li>• Transparency</li> <li>• Preprinted</li> <li>• Labels</li> <li>• Bond</li> <li>• Recycled</li> <li>• Vellum</li> <li>• Rough</li> <li>• Letterhead</li> <li>• Color</li> <li>• Prepunched</li> <li>• Envelope</li> <li>• Cardstock</li> <li>• Coated</li> <li>• Thick</li> <li>• High quality</li> <li>• Custom type 1-8</li> </ul>
Booklet	<ul style="list-style-type: none"> <li>• Off*</li> <li>• Left edge binding</li> <li>• Right edge binding</li> </ul>
Folding Mode	<ul style="list-style-type: none"> <li>• Off*</li> <li>• First page on inside</li> <li>• First page on outside</li> </ul>
Folding Side	<ul style="list-style-type: none"> <li>• Off*</li> <li>• Bi-Fold</li> <li>• Tri-Fold</li> </ul>
Folding Direction	<ul style="list-style-type: none"> <li>• Off*</li> <li>• Right to left / Bottom to top</li> <li>• Left to right / Top to bottom</li> </ul>
Folding Method	<ul style="list-style-type: none"> <li>• Off*</li> <li>• Fold every 1 sheet</li> <li>• ...</li> </ul>

	<ul style="list-style-type: none"> <li>• Fold every 5 sheets</li> </ul>
Staple	<ul style="list-style-type: none"> <li>• Off*</li> <li>• Center</li> <li>• Front</li> <li>• Rear</li> <li>• Booklet Stitch</li> </ul>
Staple Method	<ul style="list-style-type: none"> <li>• Off*</li> <li>• Staple every 2 sheets</li> <li>• ...</li> <li>• Staple every 65 sheets (70 for JA models)</li> </ul>
Punch Method	<ul style="list-style-type: none"> <li>• Off*</li> <li>• 2 holes (US)</li> <li>• 2 holes (EUR)</li> <li>• 3 holes</li> <li>• 4 holes</li> </ul>
Rotate 180°	(By default, this check box is not selected)
Job Settings	<ul style="list-style-type: none"> <li>• Printer Settings*</li> <li>• Off</li> <li>• Collate</li> </ul>

## PCL Comparison with KPDL

In the following table, "X" indicates that the feature is fully supported by the driver and "O" indicates a limited feature. Actual selections vary by device model.

Mac 3.2 Drivers	PCL Raster Driver	KPDL Driver
<b>Basic Features</b>		
Paper Source	X	X
Border Line	X	X
Paper Size	X	X
Custom Paper Size	Min: Height = 5.85 in./148.6 mm Width = 3.85 in./97.8 mm Max (A3/Ledger models): Height = 17 in./431.8 mm Width = 11.69 in./297 mm Max (A4/Letter models): Height = 14 in./355.6 mm Width = 8.5 in./215.9 mm	Min: Height = 5.85 in./148.6 mm Width = 3.85 in./97.8 mm Max (A3/Ledger models): Height = 48 in./1219.2 mm Width = 11.69 in./297 mm Max (A4/Letter models): Height = 14 in./355.6 mm Width = 8.5 in./215.9 mm
N-Up	X	X
Duplex	X	X
Collate	X	X
Scale to Fit	X	X
Cover Page (System Provided)	X	X
<b>Output Features</b>		
Output Bin		X
Media Type	X	X
Rotate Collate		X
<b>Imaging Features</b>		
Color Mode	X	X
Gloss Mode		X
Print Quality/Resolution	X	X
Color Reproduction		X
Print Grays with Black Toner		X
Halftone Screen		X
EcoPrint		X
Color Conversions		X
Trapping		X
CIE Optimization		X
Composite Overprint		X
<b>Adjustment Features</b>		
Monochrome Adjustment (Lightness, Contrast)		X
Color Adjustment (HSL)		X
Color Adjustment (Color Balance)		X
<b>Job Settings Features</b>		
Job Name		X
Overwrite Job Name		X
Job Storage	O	X

Job Email Notification		X
<b>Job Accounting Features</b>		
Account ID		X
<b>Watermark Features</b>		
Watermark		X
Stamp		X
<b>Publishing Features</b>		
Cover Mode		X
Transparency Interleaving		X
Page Insert		X
<b>User Login Features</b>		
Use Specific Name		X
Prompt for Name		X
<b>Booklet Folding Features</b>		
Booklet	X	X
Booklet Fold		X
Folding Mode	X	X
Folding Side	X	X
Folding Direction	X	X
Folding Method	X	X
<b>Finishing Features</b>		
Staple	X	X
Staple Method	X	X
Punch Method	X	X
Finishing Edge		X
Job Offset		X
180 Rotate	X	X
<b>Other Features</b>		
Super Watermark		X
Banner Print		X
<b>Installable Options</b>		
Paper Feeder	X	X
Duplex Unit	X	X
Document Finisher	X	X
Mailbox		X
Multi Tray		X
Punch Unit	X	X
Folding Unit	X	X
Job Separator		X
Optional Disk	X	X
Memory		X
<b>Fonts</b>		
System Fonts	X	X
Device Fonts		