

# **MAC DRIVER 4.0 (PCL MODE) SETUP GUIDE**



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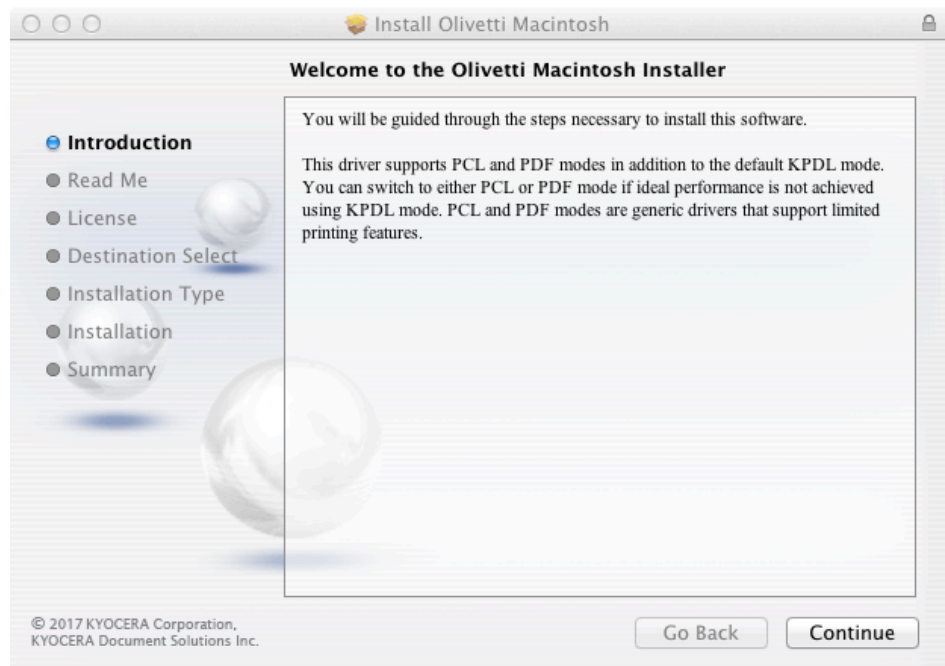
# 1 Installation

Mac Driver 4.0 supports Mac OS X 10.8 and later. Its 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.

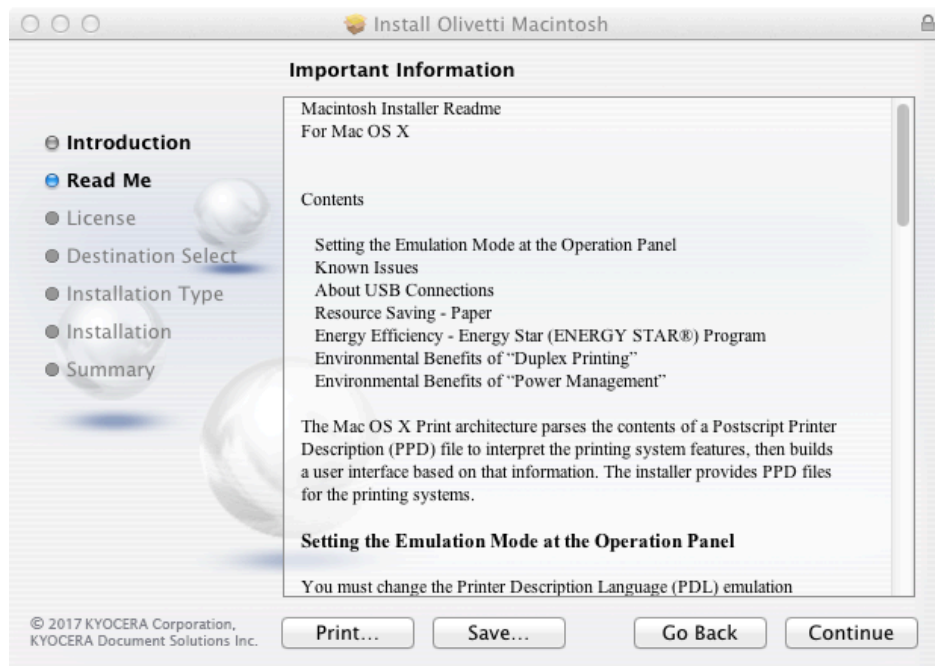
## Package Installer Setup

You can install the driver using the provided package installer.

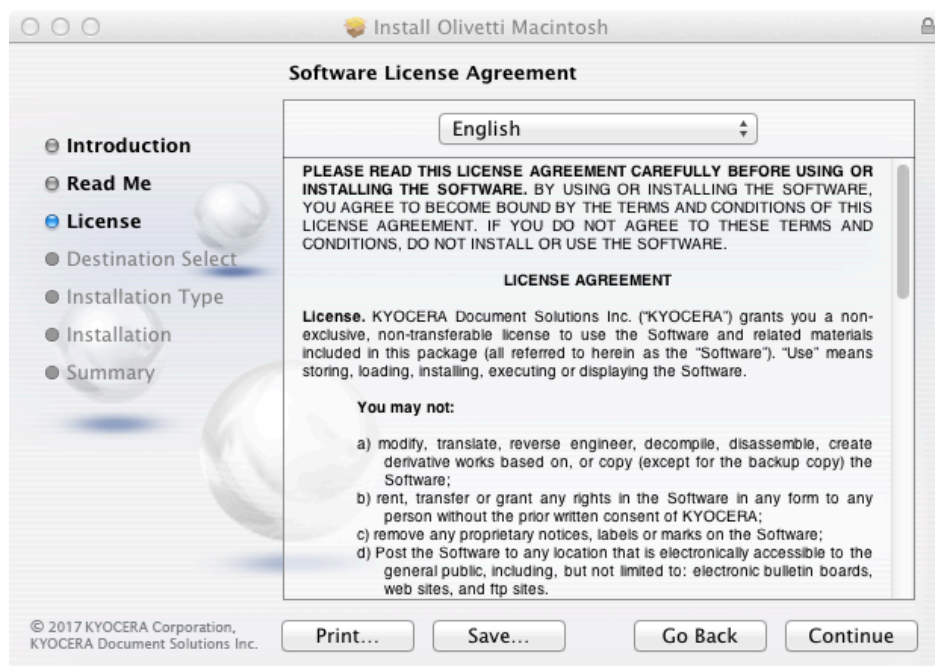
1. Double-click the **.DMG** file to run the installer.
2. In the installer dialog, click **Continue** to proceed to the Readme page.



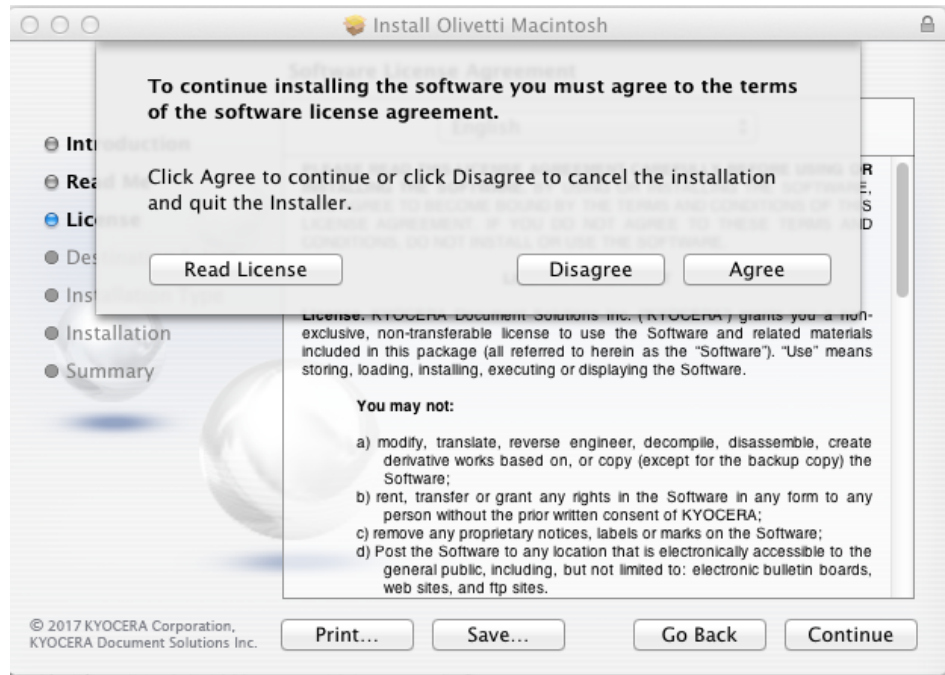
3. Click **Continue** to proceed to the license agreement page.



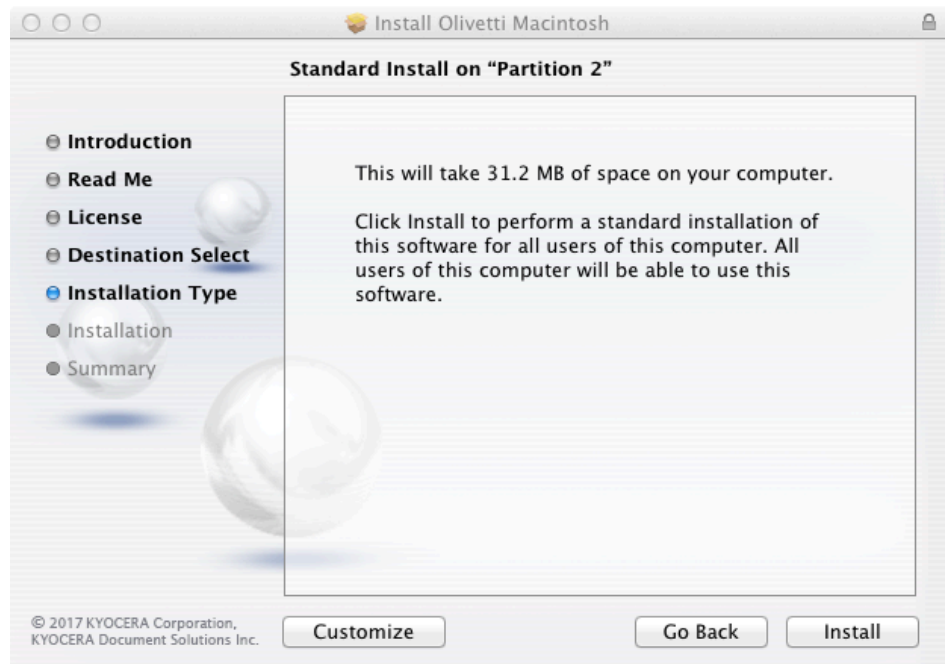
4. Review the **Software License Agreement**, and then click **Continue**.



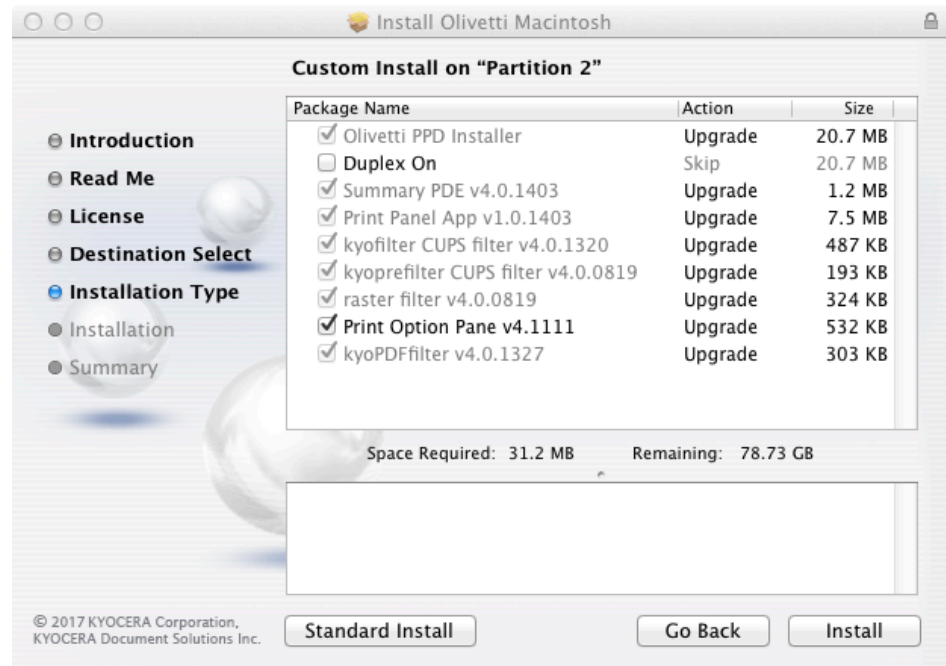
5. Click **Agree** to accept the terms of the license agreement.



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** checkbox to install the Print Option Pane.

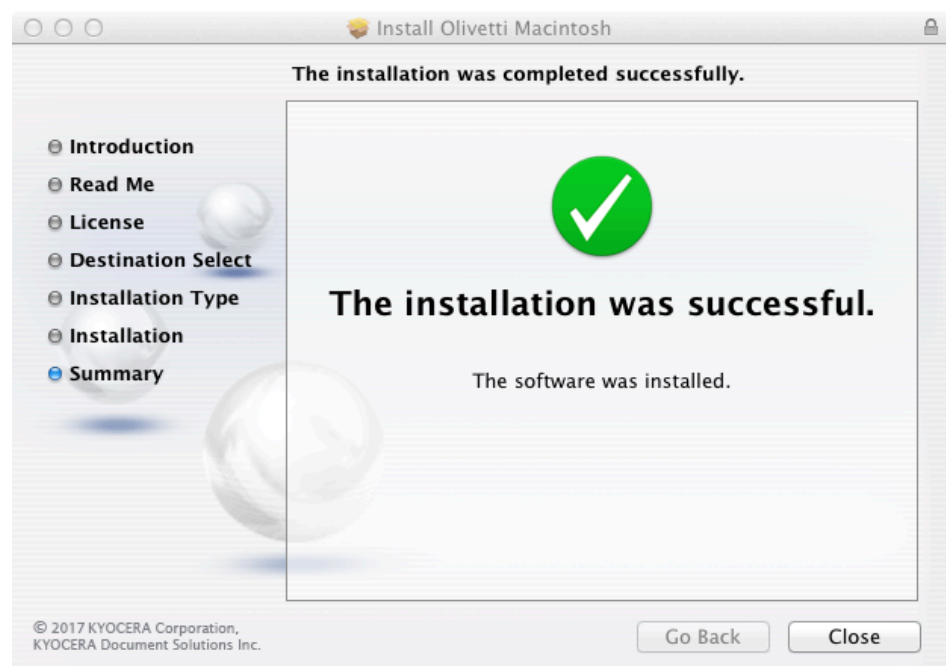


Standard Installation Page



### Custom Installation Page

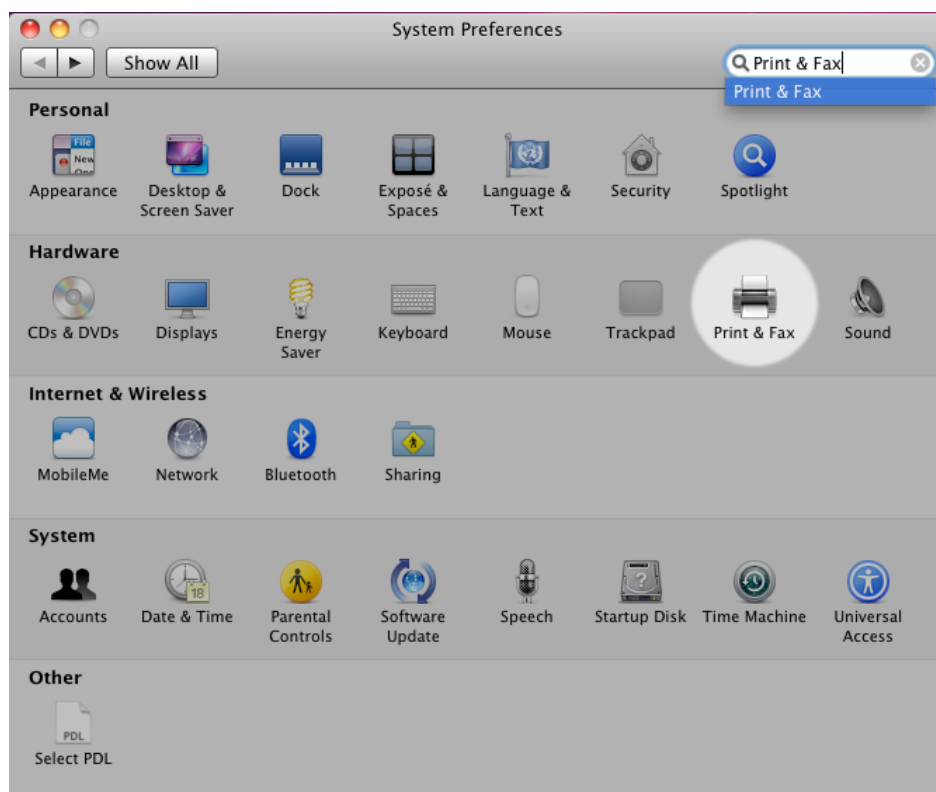
7. Click **Close** to exit when the installation is complete.



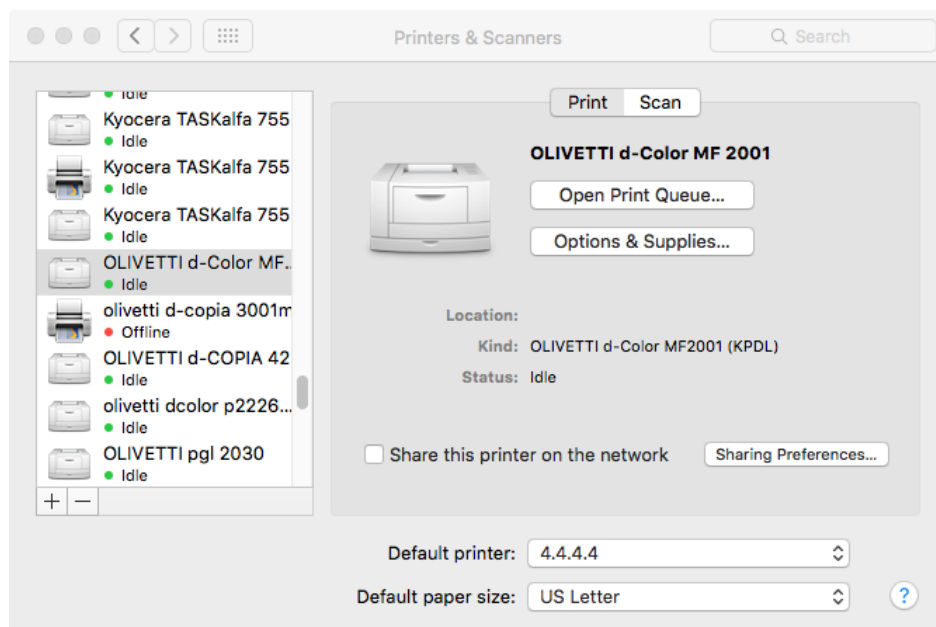
## Adding Printers

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 (this may also be called **Add**, depending on the Mac OS X version you are using).

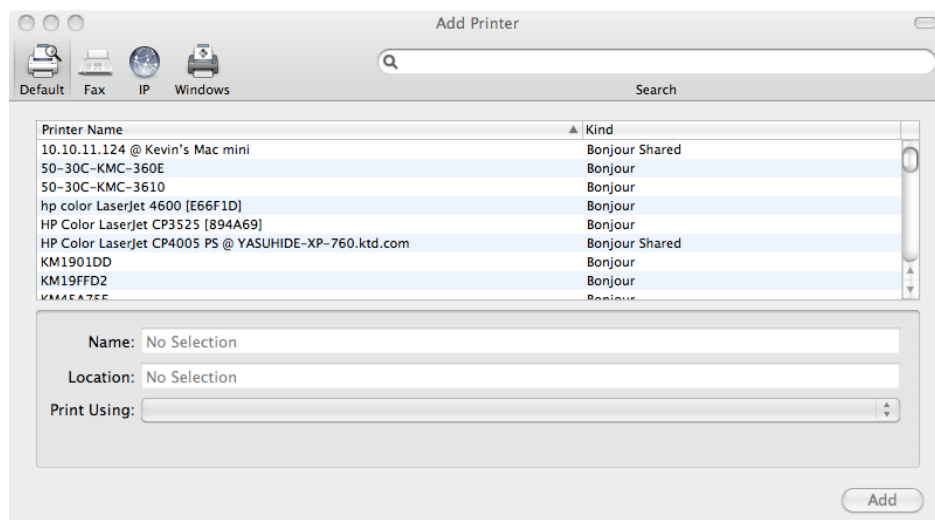


To add a printer, you must first choose a connection type—**Bonjour**, **IP Printer**, or **Windows**. If you choose the **Default** connection type, Printer Setup Utility displays a list of all available printers with Bonjour support.

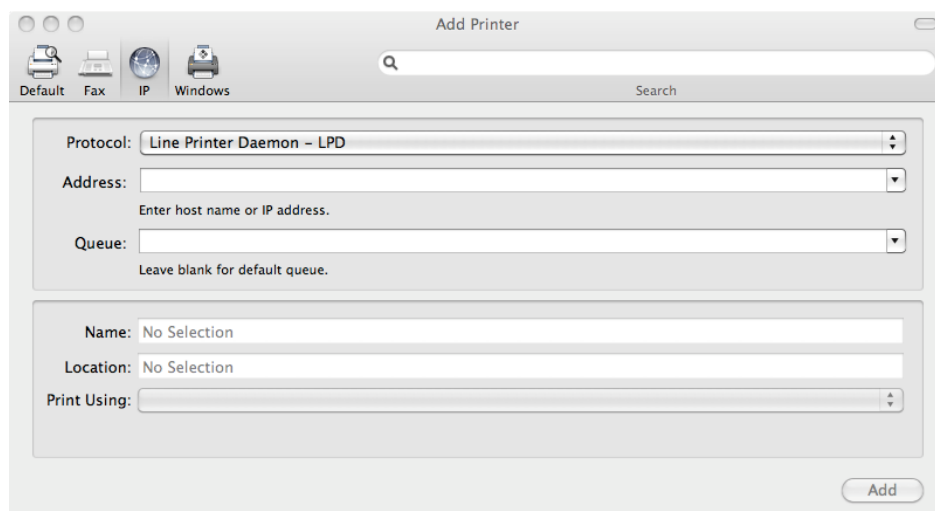
When you select a printer to add to the **Printers** list, Printer Setup Utility retrieves the selected printer’s address, icon, and model information. Printer Setup Utility then uses this information to create a new printer queue, and then adds the printer to the list when you click **Add**.



**Note:** On Mac OS 10.10 and later, **Secure Airprint** may be selected by default.



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 **Print Using** menu. The matching PPD for the printer is automatically selected by the OS.

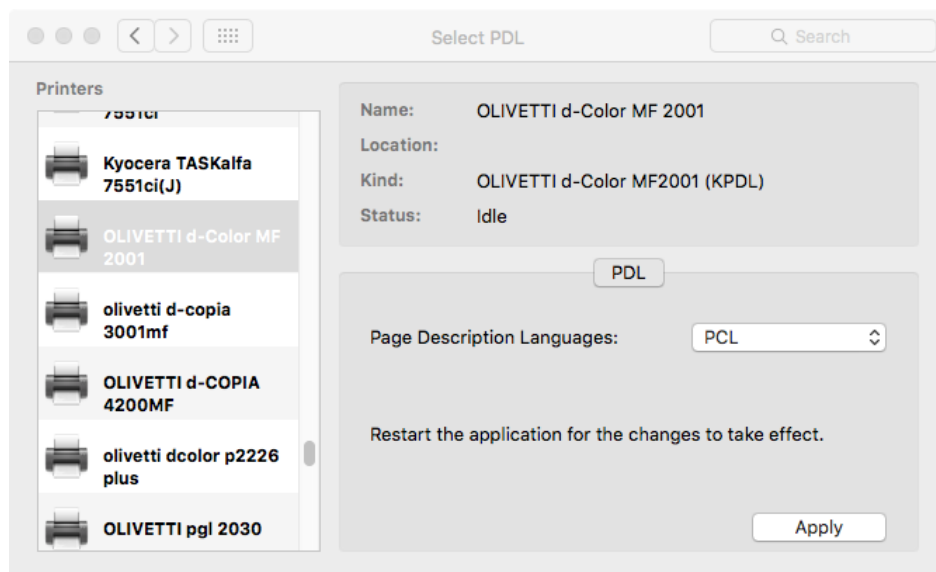


**Note:** Installable options must be set manually after you switch to PCL mode.

## Switching to PCL Mode

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

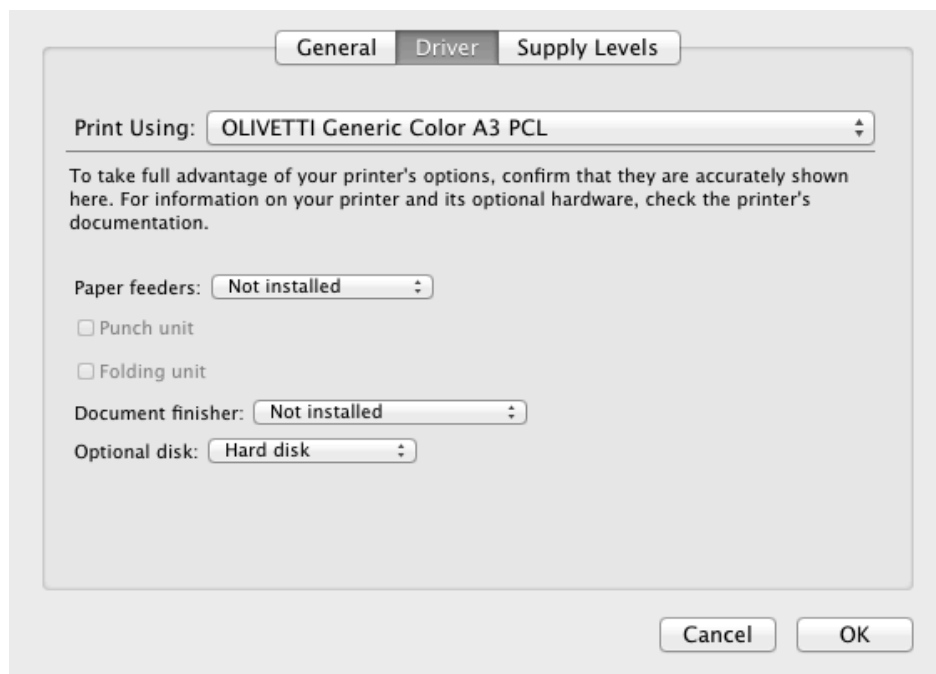
1. Open **System Preferences > Select PDL**.
2. Select a printer from the **Printers** list.
3. Select **PCL** from the Page Description Languages drop-down menu.
4. Click **Apply**.



## 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.



## 2 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 4.0 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

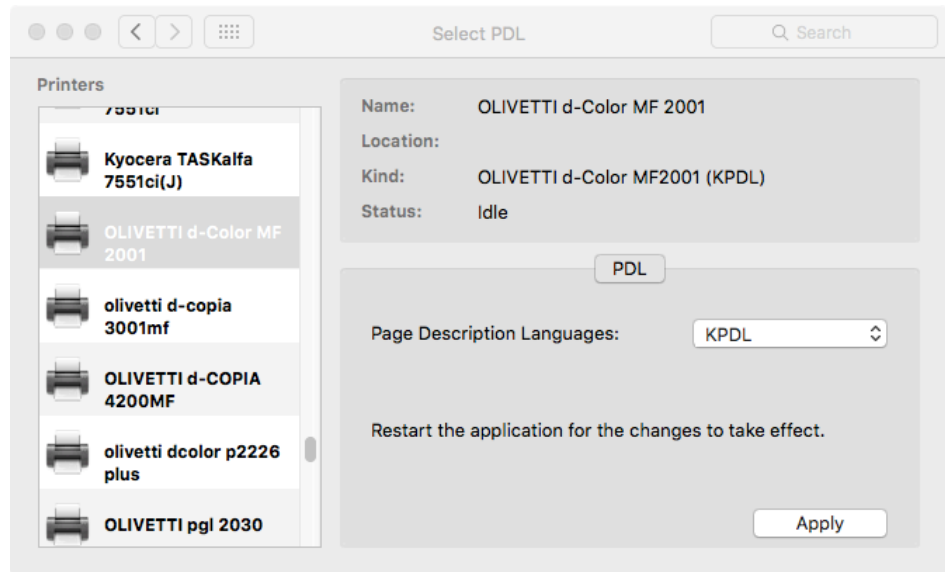
The **Printers** list displays the printers discovered by the driver. The current printer is selected.

#### Device Status

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

#### PDL Control

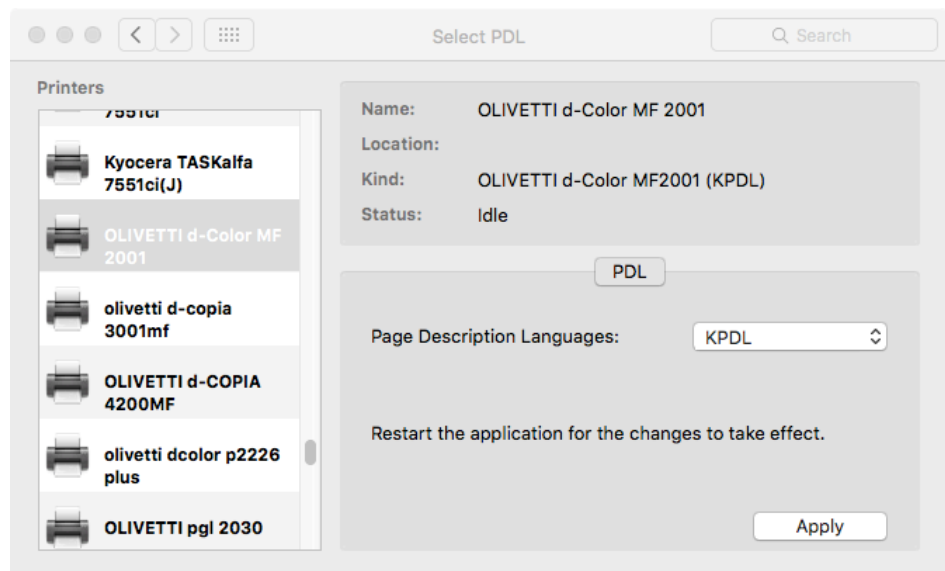
The lower section allows you to modify the PDL. After switching the PDL, all open applications need to be restarted for the changes to take effect.



## Switching between KPD L, PDF, and PCL Modes

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

1. Open **System Preferences** > **Select PDL**.
2. Select a printer from the **Printers** list.
3. Select **KPD L**, **PDF**, or **PCL** from the **Page Description Languages** drop-down menu.
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**.

## 3 PCL Mode Features

### Print Dialog

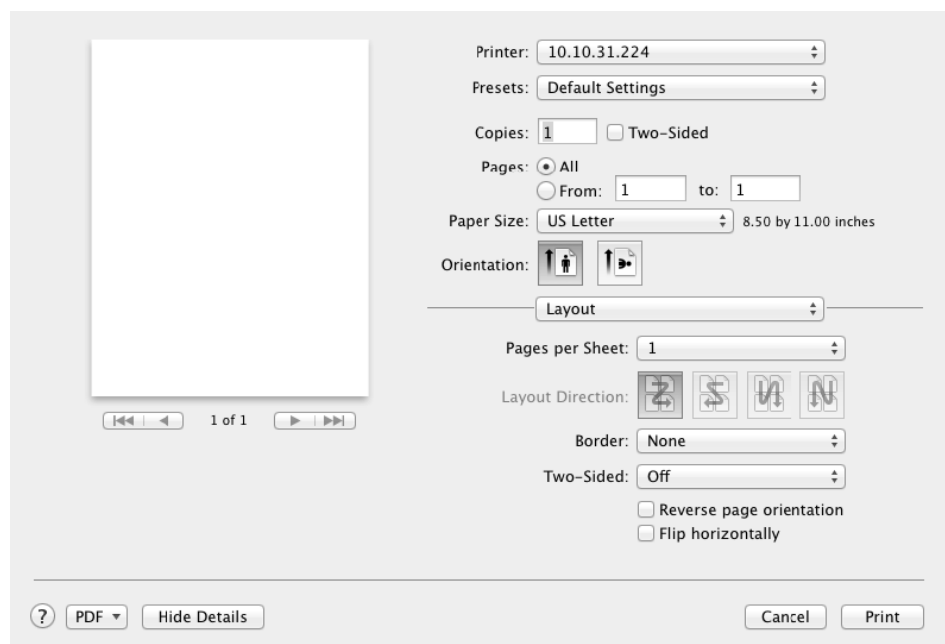
The **Print** dialog appears when you select **Print** from the **File** menu of an application. The **Print** dialog has some settings panes provided by the OS and can also be extended to allow for third-party customization.

#### 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.

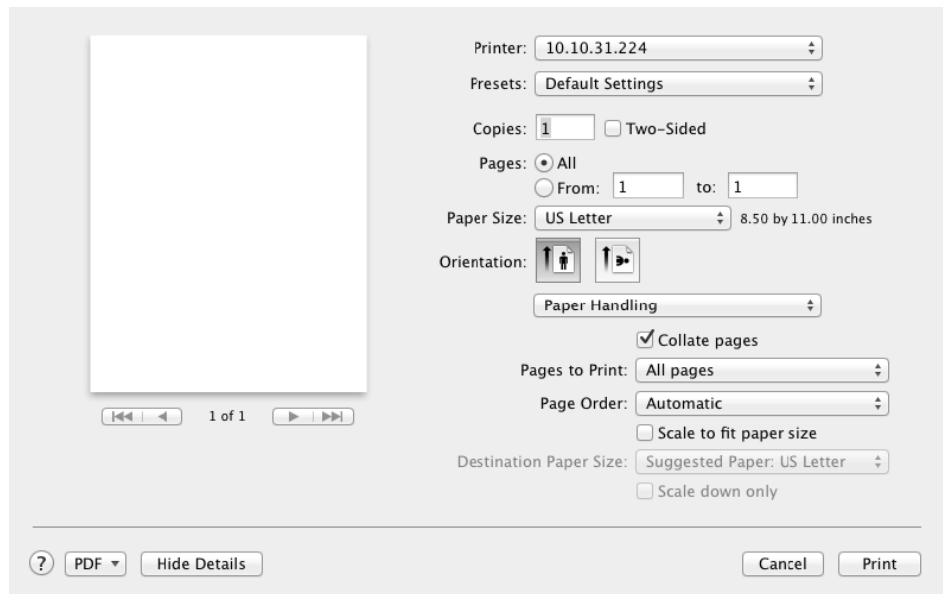
#### Layout Pane

The **Layout** pane provides settings for pages per sheet, border, and duplex.



#### Paper Handling Pane

The **Paper Handling** pane provides settings for 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: ☒ Portrait ☐ Landscape

Paper Handling

☒ Collate pages

Pages to Print: All pages

Page Order: Automatic

☐ Scale to fit paper size

Destination Paper Size: Suggested Paper: US Letter

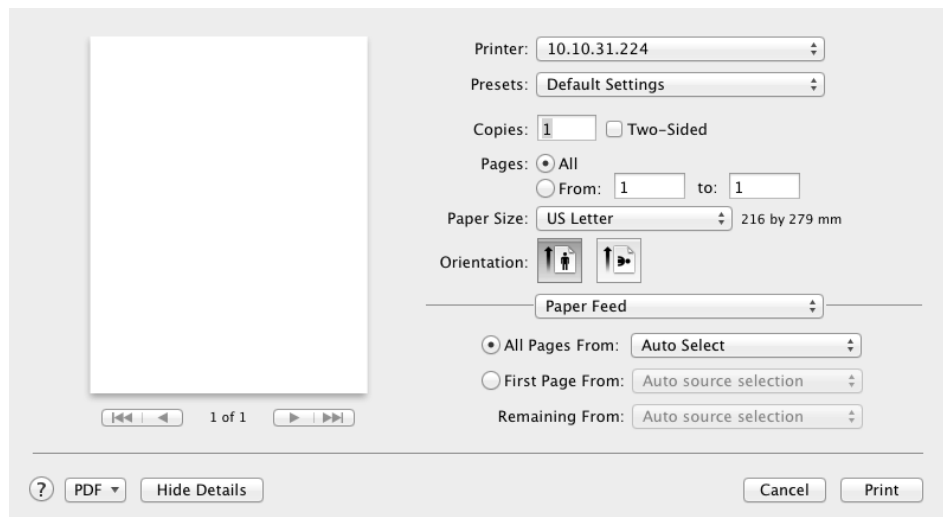
☐ Scale down only

1 of 1

? PDF Hide Details Cancel Print

### Paper Feed Pane

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



Printer: 10.10.31.224

Presets: Default Settings

Copies: 1 ☐ Two-Sided

Pages: ☒ All  
☐ From: 1 to: 1

Paper Size: US Letter 216 by 279 mm

Orientation: ☒ Portrait ☐ Landscape

Paper Feed

☒ All Pages From: Auto Select

☐ First Page From: Auto source selection

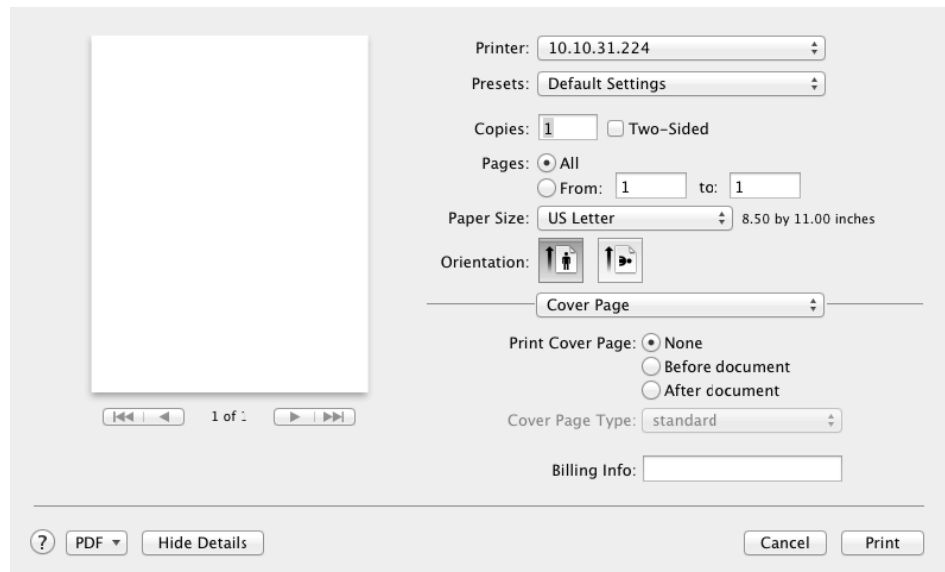
Remaining From: Auto source selection

1 of 1

? PDF Hide Details Cancel Print

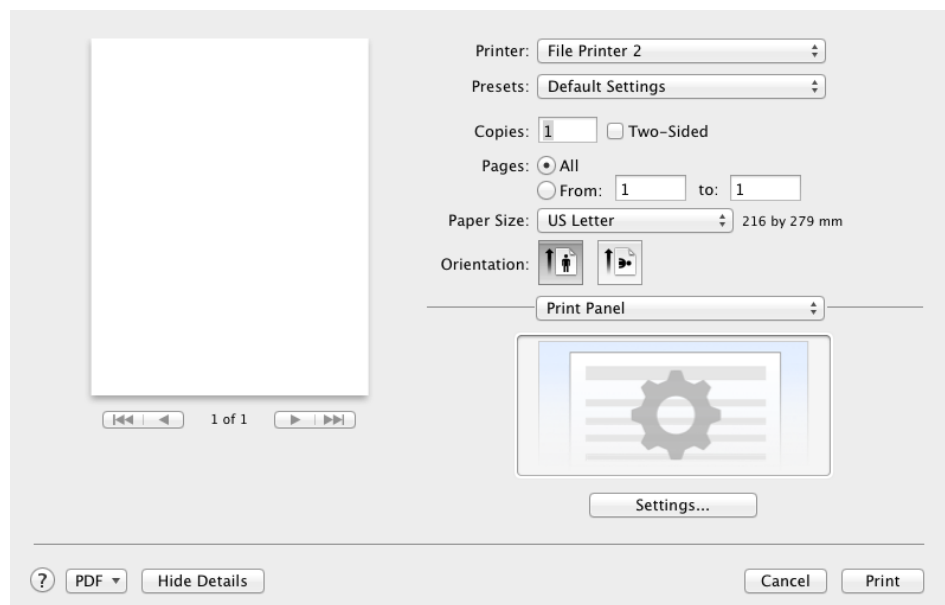
### Cover Page Pane

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



### Print Panel Pane

The **Print Panel** pane allows users to launch the external **Print Panel** application directly from the **Print** dialog, modify print settings, and apply the settings to the current print job.

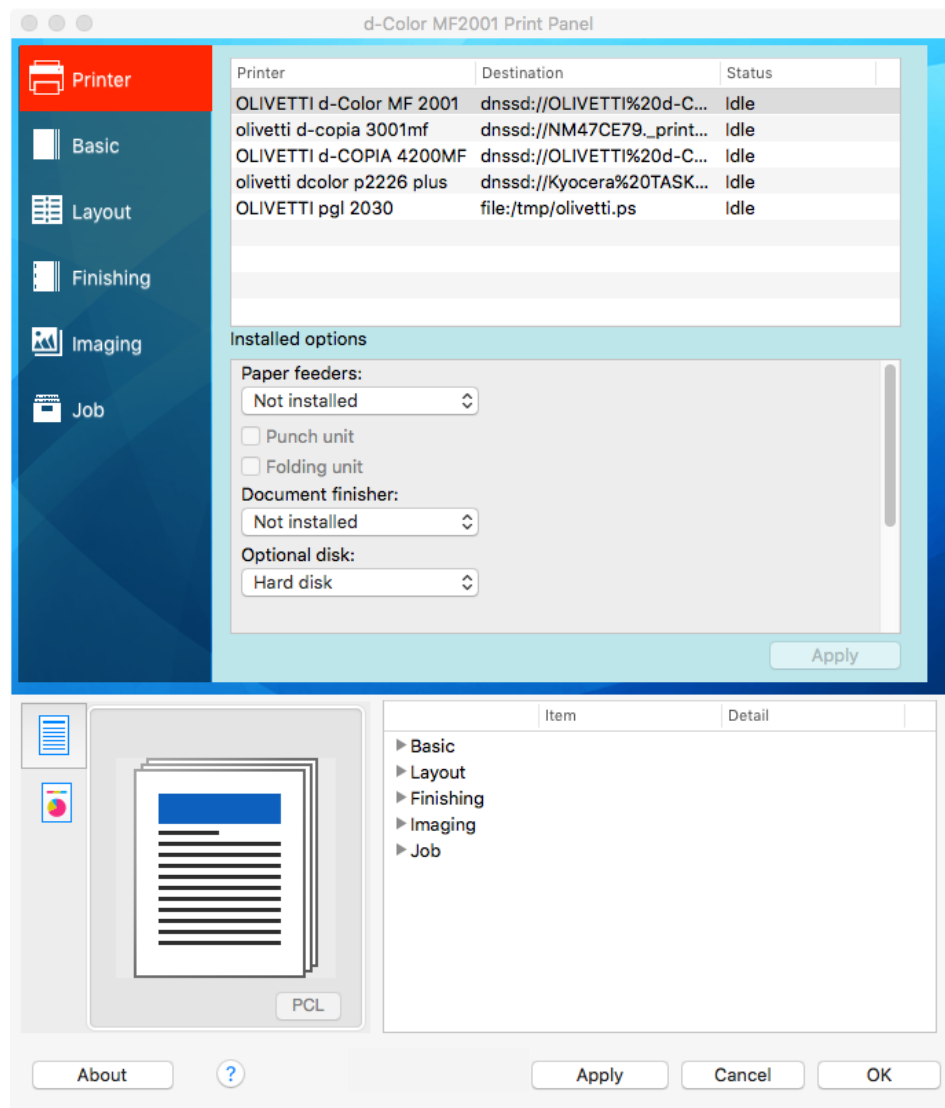


## 4 Print Panel Application

The **Print Panel** application is the main part of Mac Driver 4.0. Users can modify, save, and load permanent or temporary print settings. It can be launched from the **Launchpad** or from the **Print** dialog.

### Printer Pane

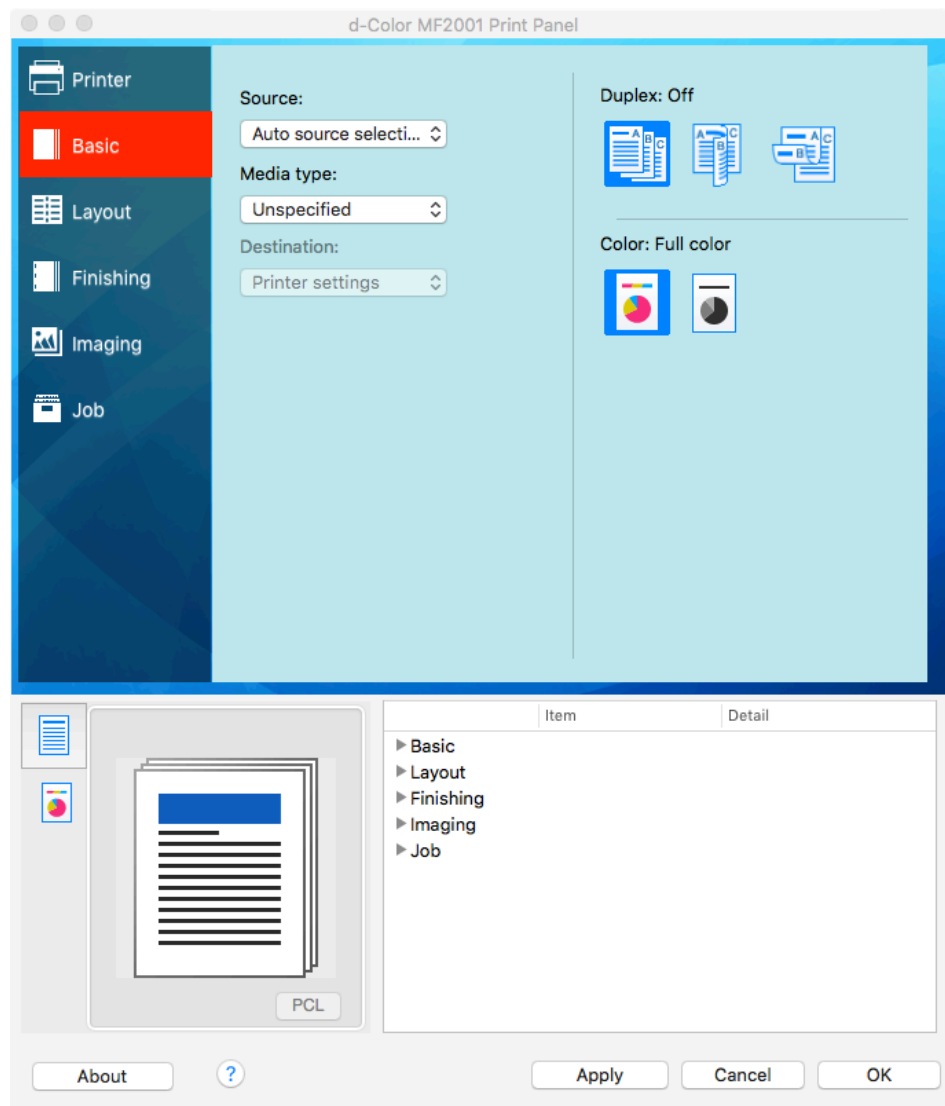
The **Printer** pane displays all installed Mac Driver 4.0 printer instances. Users can use this pane to choose a printer, and change print settings and installable options. When launched from the **Print** dialog, this pane is hidden, as settings can only be set for the current printer in the **Print** dialog.





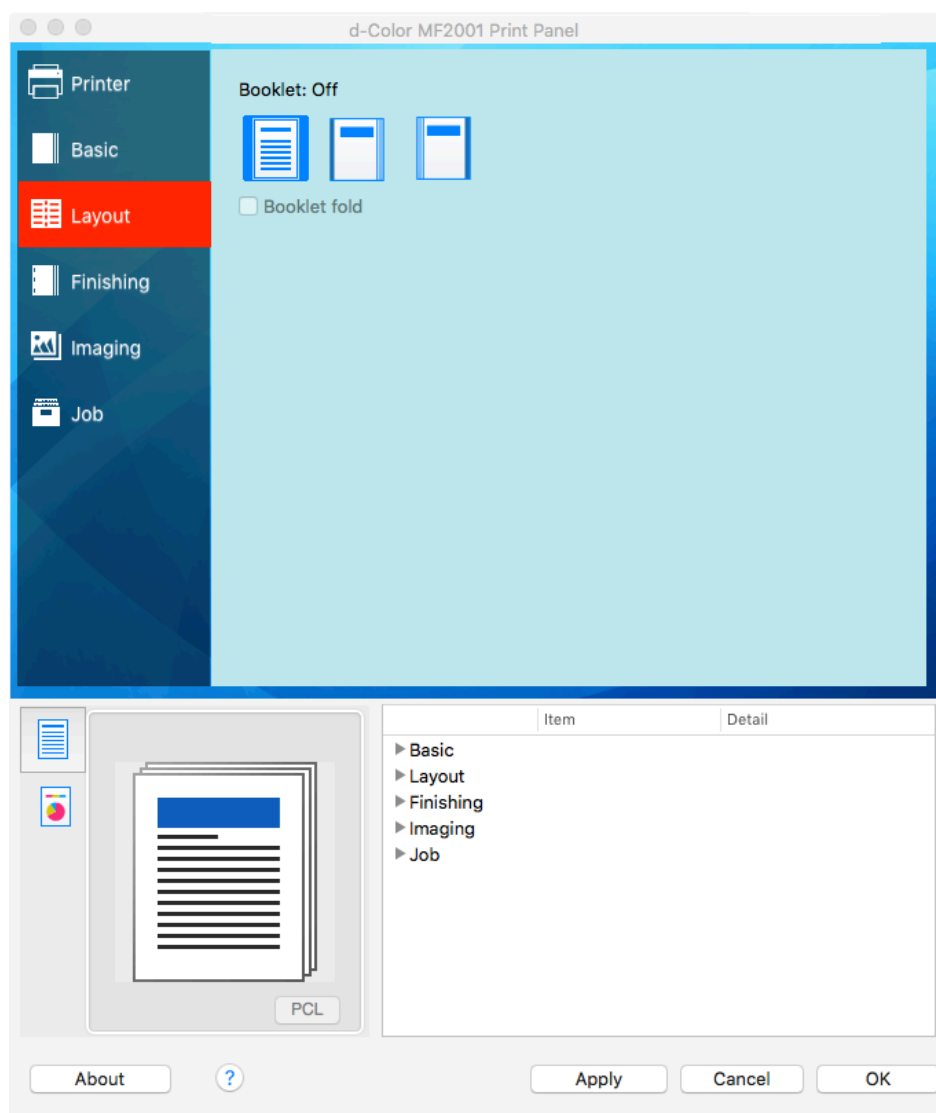
## Basic Pane

The **Basic** pane contains the most commonly used features, including **Source**, **Media type**, **Duplex**, and **Color**.



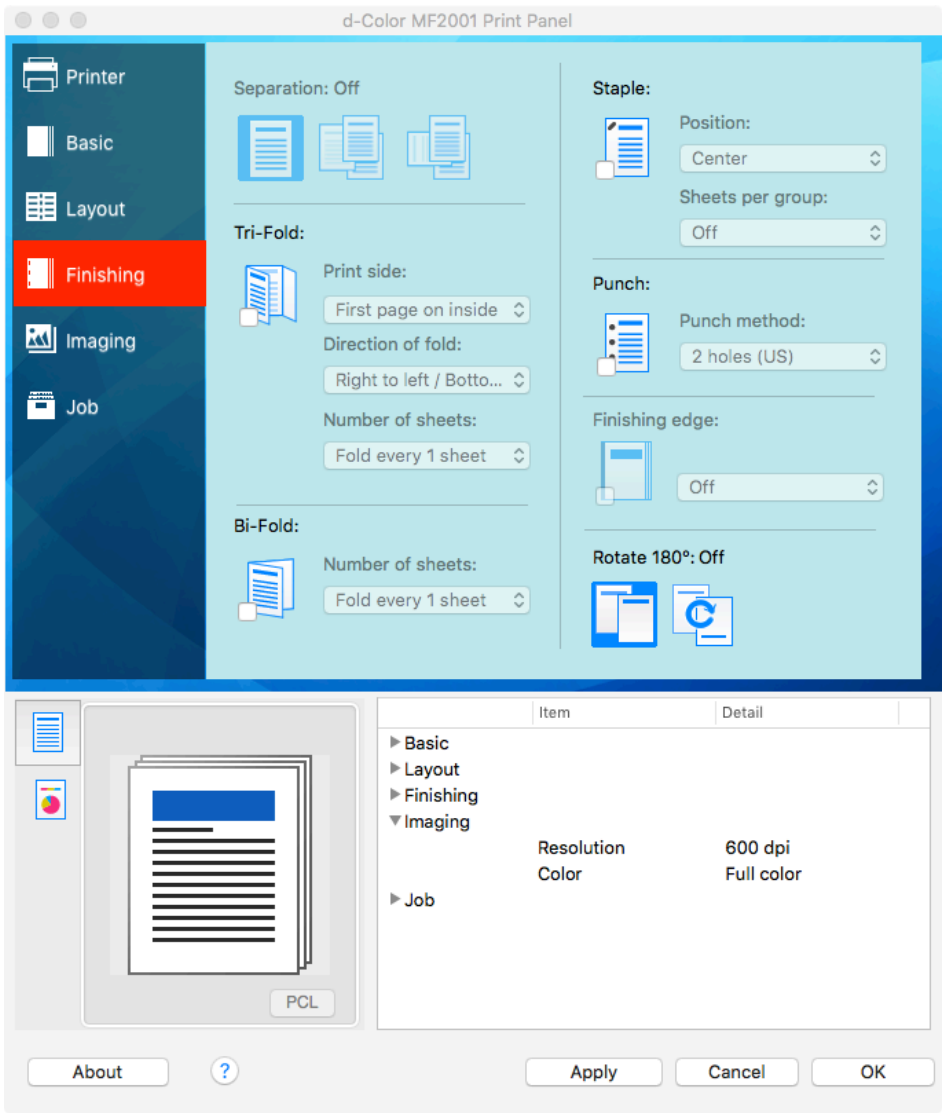
## Layout Pane

The **Layout** pane contains **Booklet**.



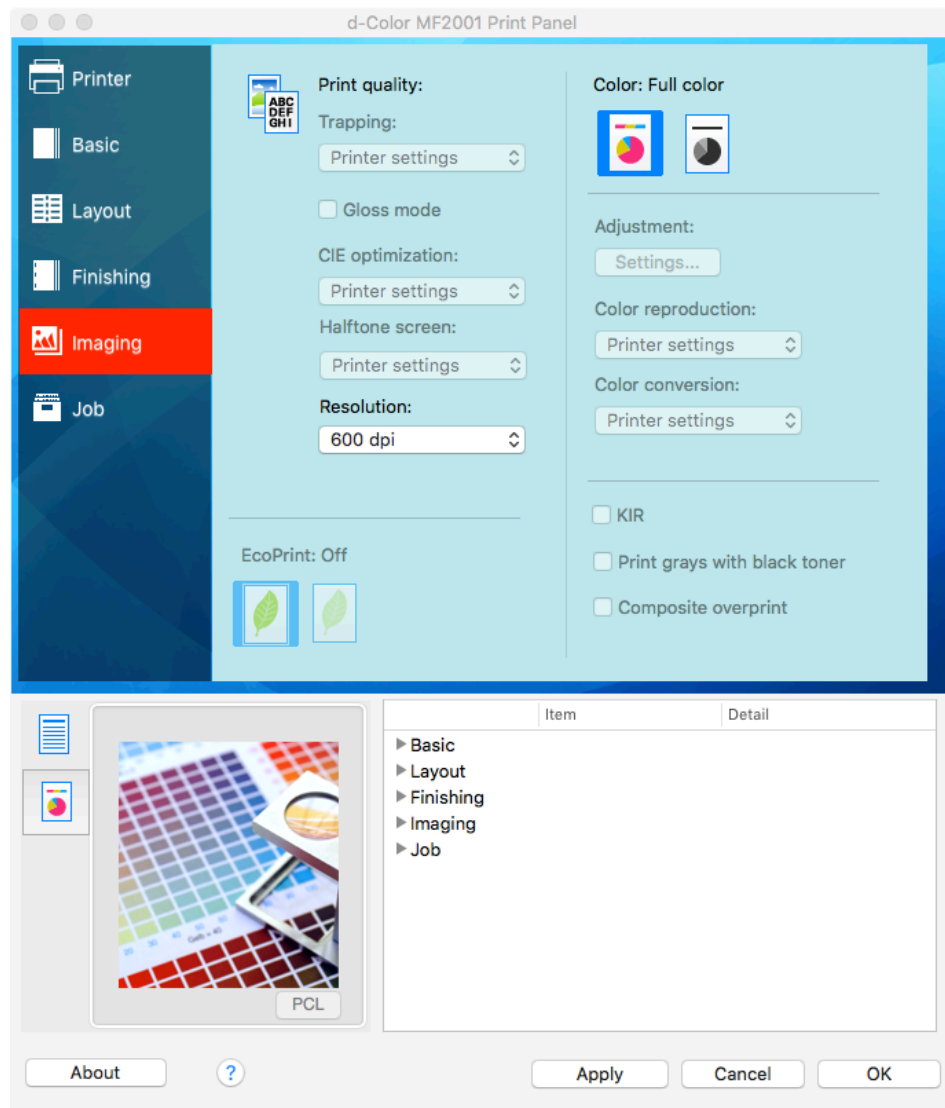
## Finishing Pane

The **Finishing** pane supports **Staple**, **Punch**, **Tri-Fold/Bi-Fold**, and **Rotate 180°**.



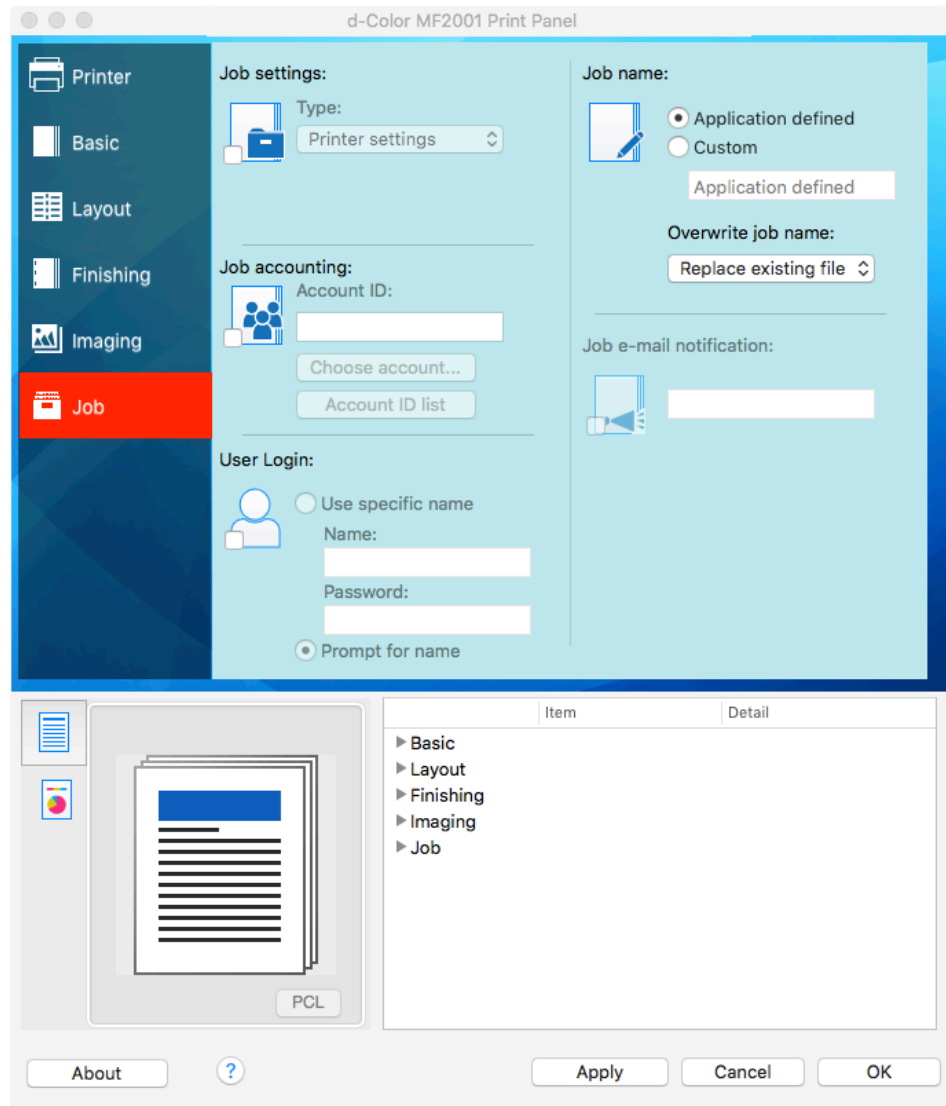
## Imaging Pane

The **Imaging** pane allows users to set color mode and resolution.



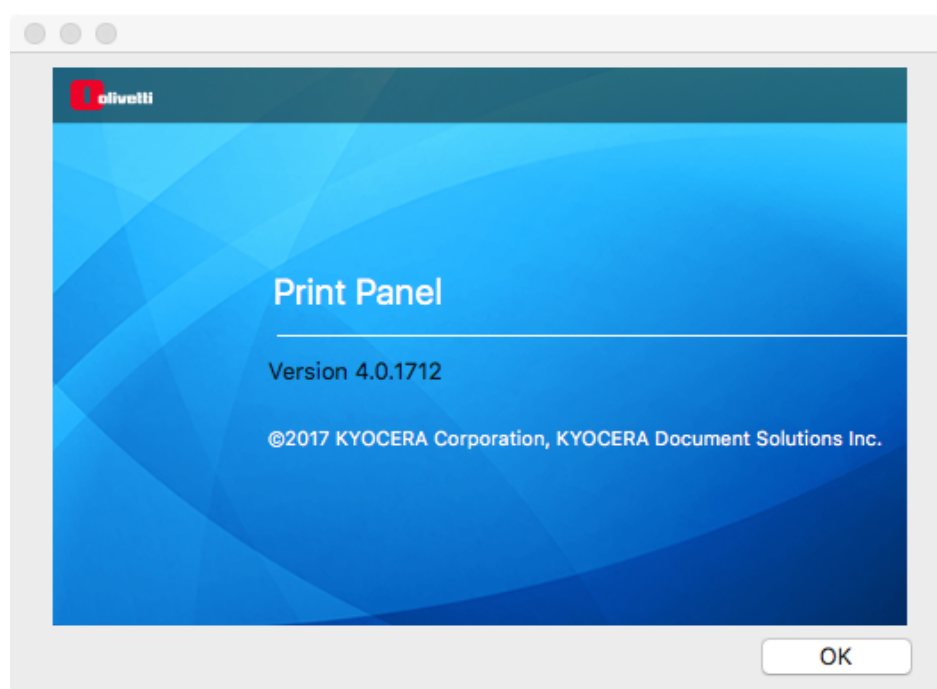
## Job Pane

The **Job** pane supports features for **Job settings**, **Job name**, **Job accounting**, and **User Login**.



## About Dialog

The **About** dialog can be displayed by clicking the **About** button on the left bottom corner of the **Print Panel** application. It displays version and copyright information of the **Print Panel** application.



## 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)	Color*
	Black & White
Resolution	300 DPI (for monochrome models only)
	600 DPI*

— continued

Media type	Unspecified*
	Auto media selection
	Plain
	Transparency
	Preprinted
	Labels
	Bond
	Recycled
	Vellum
	Rough
	Letterhead
	Color
	Prepunched
	Envelope
	Cardstock
	Coated
	Thick
	High quality
	Custom type 1-8
Booklet	Off*
	Left edge binding
	Right edge binding
Print side (Tri-Fold only)	Off*
	First page on inside
	First page on outside
Direction of fold (Tri-Fold only)	Off*
	Right to left / Bottom to top
	Left to right / Top to bottom

— continued

Number of sheets	Off* Fold every 1 sheet ... Fold every 5 sheets
Staple	Off* Center Front Rear Booklet Stitch
Sheets per group	Off* Staple every 2 sheets ... Staple every 65 sheets (70 for JA models)
Punch method	Off* 2 holes (US) 2 holes (EUR) 3 holes 4 holes
Rotate 180°	Off* On
Job settings	Printer Settings* Collate None Private Print
Job accounting	(By default, this feature is not enabled) Account ID
User Login	(By default, this feature is not enabled) Use Specific Name Prompt for Name



## 5 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 4.0 Drivers	PCL Raster Driver	KPDL Driver
<b>Basic Features</b>		
Source	X	X
Border line	X	X
Paper size	X	X
Custom print size	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	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
Pages per sheet	X	X
Duplex	X	X
Collate	X	X
Scale to fit	X	X
Cover page (System Provided)	X	X
Destination		X
Media type	X	X
Banner print		X
<b>Layout Features</b>		
Booklet	X	X

— continued

Mac 4.0 Drivers	PCL Raster Driver	KPD L Driver
Booklet fold		X
<b>Finishing Features</b>		
Offset jobs		X
Rotate copies		X
Tri-Fold/Bi-Fold	X	X
Print side	X	X
Direction of fold	X	X
Number of sheets	X	X
Staple	X	X
Sheets per group	X	X
Punch method	X	X
Finishing edge		X
Rotate 180°	X	X
<b>Imaging Features</b>		
Color mode	X	X
Gloss mode		X
Resolution	X	X
Color reproduction		X
Print grays with black toner		X
Halftone screen		X
EcoPrint		X
Color conversion		X
Trapping		X
KIR		X
CIE Optimization		X
Composite Overprint		X
<b>Adjustment Features</b>		

— continued

Mac 4.0 Drivers	PCL Raster Driver	KPDL Driver
Monochrome adjustment (Lightness, Contrast)		X
Color adjustment (HSL)		X
Color adjustment (Color Balance)		X
<b>Publishing Features</b>		
Cover mode		X
Transparency interleaving		X
Page insert		X
<b>Job Features</b>		
Job name	X	X
Overwrite job name	X	X
Job settings	O	X
Job email notification		X
<b>Job Accounting Features</b>		
Account ID	X	X
<b>User Login Features</b>		
Use specific name	X	X
Prompt for name	X	X
<b>Watermark Features</b>		
Super watermark		X
Watermark		X
Stamp		X
<b>Installable Options</b>		
Paper feeder	X	X
Duplex unit		X
Document finisher	X	X
Mailbox		X

— continued

Mac 4.0 Drivers	PCL Raster Driver	KPDL Driver
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		

