Mac Driver Installation

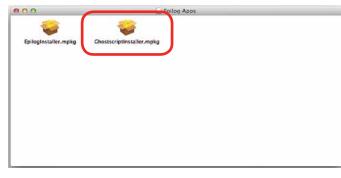
#### **Mac Driver Installation**

# Installing the Epilog Mac Driver for the First Time

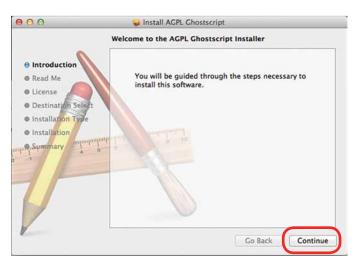


If you already have the Mac Driver installed and just want to add the ability to work on Sierra OS, go to "Installing the Mac Driver on Sierra OS" on page 33.

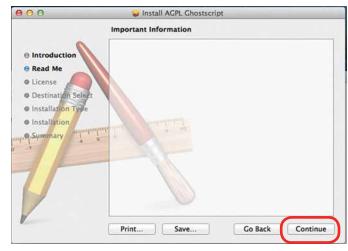
- 3. Go to <u>epilogfiles.com/epilog-test/EpilogApps.dmg</u> and double click to load the file.
- 4. The following screen will appear. First double click the **GhostscriptInstaller.mpkg** file.



5. A welcome screen appears. Click Continue.



#### 6. Click Continue.



7. The software license agreement will appear. Click **Continue**.

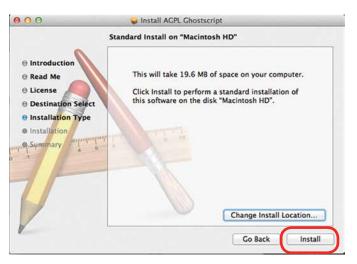
00	🥪 Install ACPL Ghostscript
	Software License Agreement
	English :
0 Read Me	GNU AFFERO GENERAL PUBLIC LICENSE Version 3, 19 November 2007
License Destination Sele Installation Type	of this license document, but changing it is not allowed
Installation	Preamble
"Q.Summary	The GNU Affero General Public License is a free, copyleft license for software and other kinds of works, specifically designed to ensure cooperation with the community in the case of network server software.
J	The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, our General Public Licenses are intended to guarantee your freedom to
1	Print Save Go Back Continue

8. Choose to Read License then click Agree.



Mac Driver Installation

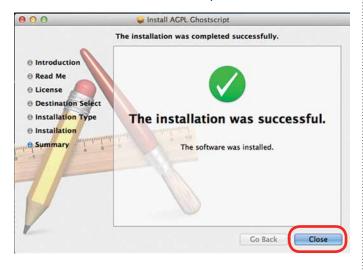
#### 9. Select Install.



10. Type in the password **epilog** (lower case) as the password then click **Install Software**.

Installer is trying to install new software. Typ your password to allow this.
 Name: Epilog
Passwore:
Cancel Install Softwar

11. Press Close to finish the first part of the install.



12. Go back to the installer and double click **EpilogInstall.mpkg**.

Epilog Apps	
<i>~</i>	
istscriptInstaller.mpkg	
	Sector repos

13. The installation process for the EpilogInstaller is the same as for the Ghostscript file. At the end of the installation you will be asked to reboot. **Reboot to complete the driver installation**.

# Installing the Mac Driver on Sierra OS

To install the Mac Driver on Sierra OS there are a few additional steps.

1. Go to Settings.



2. Select Printers and Scanners.



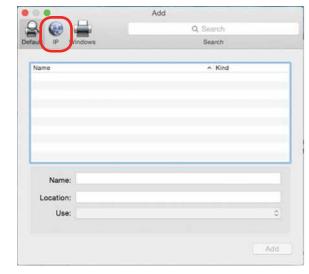
Highlight and delete any existing Epilog drivers by 3. selecting the minus symbol.

••••	Printers & Scar	iners	Q Search
Epilog Laser		Epilog Laser	
· Idle		Open Print Que	Je
		Options & Suppl	es
	Location:		
	Kind: Status:	Epilog PDE	
	010100		
	Share this print	er on the network	Sharing Preferences
+			
	Default printer:	Last Printer Used	0
	Default paper size:	US Letter	0 6

4. Add a new driver by clicking the **plus symbol**.



- Mac Driver Installation
- Click the IP icon. 5.



6. Fill out the following information:

and 55000.

Type **127.0.0.1:55000** next to address. а

Important! Notice that a colon separates the 1

....

- Set Protocol to HP Jetdirect Socket.
- C
  - Provide a name for the printer. We have named the printer **Epilog**.
- In the Use drop-down menu, click on Select d Software.

	Add		
Q 🛞	<b></b>	Q. Search	
efault IP	Windows	Search	
Address	: 127.0.0.1:55000 a		
	Valid and complete host name or de	ress.	
Protocol	: HP Jetdirect - Socket D		٢
Queue			
	Leave blank for default queue.		
Name	: Epilog C		
Location	Auto Select		
Use	✓ Generic PostScript Printer		
	Generic PCL Printer		
	Select Software		
	Other		
			nud

Mac Driver Installation

7. Select Epilog Corporation Epilog PDE, then click OK.

0	Print	er Softwa	ire	
			Q Filter	
Dymo Label Print	er			
cpilog corperatio	n Ephog PDE			
Epilog Corperatio	on Epilog PDE			
Epson 24-Pin Se	ries			
Epson 9-Pin Seri	es			
EPSON FAX				
EPSON FAX A3				
HP DeskJet Serie	s			
HP LaserJet Seri	es PCL 4/5			
Intellitech IntelliB	ar Label Printer	, 2.1		
Oki 24-Pin Series	5			
Oki 9-Pin Series				
			Cancel	OK

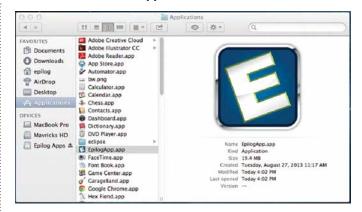
#### 8. Click Add.

		Add		
. 💮	<b>-</b>		Q. Search	
ult IP V	Vindows		Search	
Address:	127.0.0.1:55000			
	Valid and complete hos	st name or addre	YSS.	
Protocol:	HP Jetdirect - Soc	ket		0
Queue:				
	Leave blank for default	queue.		
Name:	127.0.0.1			
Location:				
Use:	Epilog Corperation	Epilog PDE		0
036.	Epilog Corperation	reparty PDE		~
				Add

9. And you're done! The Mac driver has been installed.

Printers		Epilog	
E Idle, Last Used		Open Print Que	ue
		Options & Suppl	ies
	Location:		
		Epilog PDE	
	Status:	Idie	
	Share this printe	er on the network	Sharing Preferences
			0

11. Go to the Finder/Applications.



12. Finally, drag the **Epilog icon** into the dock.



13. **Click the Epilog icon** and the Epilog viewer will open. At this point, there is nothing in the viewer, but it needs to be open before we print a job.

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nik A/A Totali Da		- brenn frei
		Andering Proper Dare Wether Lass Than () 0 p Min Stroke 0 ps Zeom 100 Point

#### Setting up an IP Address:

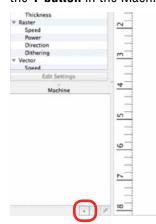
After installing the Epilog print App, we need to establish IP Addresses for both the Fusion and the computer. Setting an IP Address in the Fusion is detailed in Section 2 of the Fusion Owner's Manual.

The Epilog Mac driver can only print using an Ethernet connection. A USB connection will not work.

We will first set up an IP Address in the print App that matches the IP Address in your Fusion laser system.

Mac Driver Installation

- 1. To establish an **Ethernet connection**, connect your computer to the Fusion laser system using an Ethernet cable. Turn on your Fusion.
- 2. From your computer, open the **EpilogApp** and click the **+ button** in the Machine section.



3. Type in a **Name** for your Fusion and the **IP Address** the Epilog print App is going to send/print files to. This IP Address must be the same as the IP Address that is set in your Fusion Laser system.

0.0.0	_				EpilogApp		_		_
Job: Untitled		10	11	12	13	14	15	16	17
Setting * Job DPI Job Type Center-Cente Auto Focus Vector Crid Thickness * Raster Speed	No N/A N/A 50			Core, Namerica III			Dialog		LL'I
Power Edit Settin Machine Epilog Fusion Laser		4 111 111 111 2					192 , 168 , Fusion : Car		

- 4. Click **OK**. The Epilog App is now ready to print to IP Address 192.168.3.5.
- 5. We now want to set up an IP Address for your computer that is different from the IP Address in your Fusion laser system.

From your computer go to System Preferences and then select **Network**.



6. If your Fusion laser system is powered on and the Ethernet cable is plugged in your Ethernet should be connected.

	Location:	Automatic		•	
Ethernet Connected Wi-Fi Connected		Status:	Connected Ethernet is currently a address 0.0.0.0	uctive and has the IP	Ī
FireWire Not Connected	Y	Configure IPv4:	Manually		+
Bluetooth PAN	0	IP Address:	192.168.3.100		
No IP Address	•	Subnet Mask:	255.255.255.0		
		Router:			
		DNS Server:			
		Search Domains:			
+ - 0*				Advanced.	

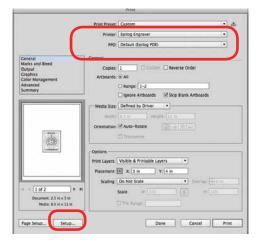
- 7. Select **Manually** for the Configure IPv4 setting, and then type in an IP Address that is different from the IP Address of your Fusion system.
- 8. Type in the **Subnet Mask as shown**, then click on **Apply**.
- 9. You should now be able to print a job from your computer to your Fusion laser system.

Mac Driver Installation

 Now, go back to Illustrator and setup your artwork. The artwork below has been prepared on a 8" x 10.5" page. We're ready to print so go to File/Print.



- 11. The standard print window will come up. It will be different depending on which version of Mac OS you are using. Set you **Printer** and **PPD to Epilog**.
- 12. Click on **Printer** to access the laser settings.



13. Click on the Layout dropdown menu.

Printer:	Epilog Engraver	:	
Presets:	Default Settings	:	
Copies: 1			
Pages: 🧿	All		
2	From: 1 to: 1		
	ayout	:	
	Pages per Sheet:	1	:
1	Layout Direction:	2 5	W1 AV
	Border:	None	:
	Two-Sided:	Off	4
		Flip horizont	ally

14. Select Epilog Settings

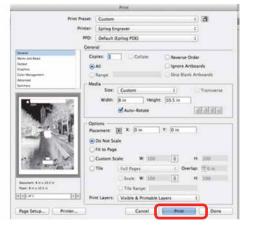
Printer:	Epilog Engraver	÷)
Presets:	Default Settings	+
Copies:	1	
Pages:		
-	/ Layout Color Matching	
1	Paper Handling Paper Feed Gener Page	5 14 19
	Epilog Settings	*
	Two-Sided: Off	t
		horizontally

15. Set your laser Settings.

Print	
Printer: Epilog Engraver	•
Presets: Default Settings	\$
Copies: 1 Pages: • All	
From: 1 to: 1	
Epilog Settings	•]
Options	
Job Type: Combined	+
Center-Center: None	*
Auto Focus Vector Grid	t Print
Raster Settings	
Speed:	50
Power:	50
Engraving Directon: Top-Down	\$
Image Dithering: Standard	*
Vector Settings	
Speed:	50
Power:	50
Freq:	50
Vector Sorting: Standard	A.
Speed Comp. Power Comp.	
Resolution	
	600

16. Once your settings have been established, click on **Print**. This will take you back to the Print window.

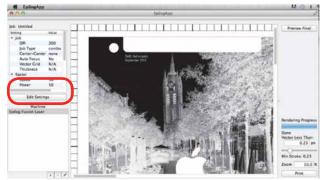
17. After establishing your settings, you will return to this window. Click on **Print** again.



18. After clicking Print, the driver will transfer the job from the Print window to the Epilog viewer. The Epilog Transfer icon will appear in the Dock. The transfer takes several seconds, but once the transfer icon disappears you can click on the **Epilog icon** to access the viewer.



- 19. Once the Transfer icon disappears, the Viewer icon will bounce up and down and you can click on it to access the Epilog viewer. *It's important to remember that the Epilog viewer icon must be open before Printing*. If it is not open, pause the transfer, open the viewer, and then restart the transfer.
- 20. You are now ready to Print to the Fusion (lower right corner). You can click on **Edit Settings** if you would like to access or change your laser parameters for this job.

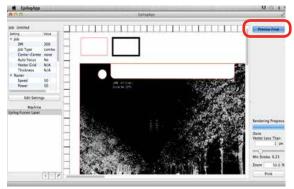


#### Vectors

Unlike Windows, the Mac driver can vector many different line weights. However, like Windows, the most predictable way to designate which lines will be vectors is to set the stroke in Illustrator to the smallest line available.

One of the really nice features in the Mac driver is that you can actually see the lines that are vectors in the viewer.

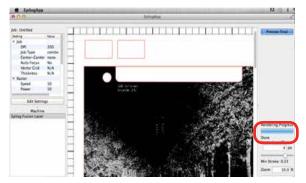
 To see the lines that will vector cut, click on Preview Final. The vector cut lines less than 1 px will be shown in red.



In this example, you can see there are red vector lines that will vector. There are red lines that make up the iPad Air template, used for alignment, and another red box above the photograph.

Notice that there is a box in this example with a wide black line, this line has a 3.5 px stroke, and is designated to engrave at this size. We can designate this line to vector cut instead.

2. Adjust the Vector Less Than value in the lower right corner. Increasing this value will designate this heavy line as a vector cut line.



3. After increasing the value to 4 px and clicking on Preview Final again, we now have two boxes that will be vector cut.



Note: When using this beta version it is a good idea to use px (pixels) to determine stroke thicknesses of your vector cut lines.

This will make it easier to define which vector lines cut and which vector lines engrave in the Epilog Mac Driver App.

Mac Driver Installation

#### **Mac Driver Settings**

The Mac Driver is a powerful software tool that allows you to engrave and cut directly to your CO2 Fusion Laser from a Mac. Here we demonstrate how to print from Adobe Illustrator, but there are other graphic software programs you can print from to the laser as well.



#### Select Printer

Select your Fusion Laser system as your the printer.



Job Type: Choose between the three modes of operation.

- **Raster Mode:** Used for engraving or marking materials. Typical uses would be reproducing clipart, scanned images, photos, text and graphic images.
- Vector Mode: Selected when you are only running cut lines or for use with the Red Dot Pointer for previewing the job processing area. For vector mode, a line is recognized as a line to be cut based on line width (stroke).
- **Combined Mode:** Used when you have both engraving and cutting in the same job. The laser will first engrave your artwork, then follow with the vector mode.

**Center-Center:** The Center Engraving Option allows you to define the center of your artwork as the primary

Presets:	Default Setting	ls	\$
Copies:			
Pages:	All From: 1	to: 1	
	Epilog Settings	i	;
Option	5		
2 Job	Type: Combine	d	\$]
Cent	er-Center: Nor	ie	\$
	uto Focus 🗌 Ve		
Mate	erial Thickness:	.000 Din	act Print
Raster	Settings		
3 Spee	:	-0	50
Powe	ar:	-0	= 50
Engr	aving Directon:	Top-Down	+
Imag	ge Dithering:	Standard	\$
	Settings		
4 Spee	:d:	-0	50
Powe	er:	-0	50
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Print

reference point (Home Position) of your engraving or cutting. The Center Engraving option has been designed to be used in conjunction with the Jog feature on the Fusion Control Panel. Center engraving differs from standard printing where the upper left corner of the page and the upper left corner of the laser table define your primary reference point. For more information, visit "**Center Engraving**" **on page 110** in the manual.

**Auto Focus:** Check this box when you want to use machine's Auto Focus capabilities. Measure the thickness of the material you are using and input the number into the thickness box. The table will automatically move up or down so that the top of your material is 2" (50.8 mm) from the bottom of the focus lens. If the Auto Focus box is not selected, Auto Focus will be disabled and the table will not move up or down when the job starts.

When the Vector Cutting Table is installed and you want to use Auto Focus, click both the Auto Focus box and the Vector Grid box. This tells the laser system that the Vector Cutting Table is installed and it will automatically calculate the appropriate focal distance based on this information.

Mac Driver Settings

The material thickness is still required when using the Vector Cutting Table. If a thickness is not specified the system will Auto Focus to the top of the Vector Cutting Table, not to the top of your material. For a detailed discussion on focusing the laser, visit **"Auto Focus vs. Manual Focus" on page 97**.

**Direct Print:** The direct print check box is for use only when you want to send a job directly to the engraver without first going through the Epilog Viewer.

#### 3 Raster Settings

**Speed:** Determines the travel speed of the carriage in Raster mode and is adjustable in 1% increments from 0 to 100%. The slower the speed, the deeper the engraving. Speed settings are heavily dependent on the hardness and the thickness of the material being engraved with harder materials requiring slower speeds for deeper engraving. Slower speed settings will produce greater depth of engraving. Please refer to "**Appendix B: Material Settings**" on page 195 in this manual.

**Power:** Determines the amount of laser energy that is delivered to the piece being cut and is adjustable in 1% increments from 1 to 100%. The higher the power, the deeper the engraving. Please refer to "Appendix B: Material Settings" on page 195 in the manual.

**Engraving Direction:** This feature applies to raster engraving only and allows you to engrave your project either from the top-down or the bottom-up direction. In standard top-down engraving there can be a large amount of engraving debris generated, especially on materials such as plastic, wood and rubber. As the debris moves towards the exhaust plenum, some of it collects in the area that has just been engraved. Bottom-up engraving prevents the debris from collecting in the freshly engraved spaces.

**Dithering:** This setting defines how the dot patterns will be engraved in raster images that contain grayscale images, blends, or color. The Dashboard offers six different dithering patterns to enhance your engraving projects. The default mode is Standard. This mode can be used for all images, including photographs, but some images improve when engraved with other dithering patterns Dithering is used only for Raster engraving and has no effect on vector cut lines. For more information, go to "**Image Dithering**" on page 100.

#### **4** Vector Settings

**Speed:** Determines the travel speed of the carriage in Vector cutting mode and is adjustable in 1% increments from 1 to 100%. The slower the speed, the deeper the cut. Most cutting applications require relatively slow speed settings, and the speed is heavily dependent on the hardness and the thickness of the material being cut. Slower speed settings will also produce better edge quality. High speeds are provided for draft mode only and are not intended for production applications. For more information, visit "Appendix B: Material Settings" on page 195.

**Power:** Determines the amount of laser energy that is delivered to the piece being cut and is adjustable in 1% increments from 0 to 100%. The higher the power, the deeper the cut. The amount of power necessary to cut completely through a given material is also heavily dependent on the hardness and the thickness of the material. For more information, visit "Appendix B: Material Settings" on page 195.

**Freq:** The Frequency is the number of laser pulses that the laser fires per inch of travel. The frequency is set in the dashboard and can be adjusted from 1 to 100. A lower frequency number will have the effect of less heat because fewer pulses are being used to cut the material. Lower frequency rates are helpful for products like wood where charring is evident at higher frequencies. High frequencies are useful on material like acrylic where a large amount of heat is desirable to melt or flame polish the edges.

**Speed Comp:** Reduces all speed settings by ½. For example, a speed setting of 10 without Speed Comp selected will move twice as fast as a setting of 10 with Speed Comp selected. In essence, Speed Comp provides

Mac Driver Settings

an alternative set of speed parameters that are ½ the speed of the standard settings. Speed Comp mode will most often be used with speed settings below 10 when very slow cutting is desired. Most users will rarely use Speed Comp mode, but it adds additional functionality for unusual or demanding applications.

**Power Comp:** When checked, power compensation reduces the laser output when the laser carriage slows as it moves through a curve. Selecting Power Comp is especially useful for vector cutting jobs that incorporate a large number of curves. This has the effect of producing unparalleled edge quality when cutting curves. Most users find that keeping Power Comp selected is the preferred setting.

#### 5 Resolution

Set your print resolution from 75 to 1200 DPI. For the best engraving results, use a resolution equal to the resolution in the raster images within your project setup. The resolution setting in the print driver will affect the engraving time (there are twice as many engraved lines at 600 DPI as at 300 DPI) and the quality. For a detailed discussion, visit "**Resolution**" **on page 83**.

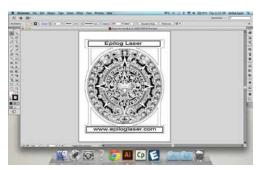
# **Project Setup**

While the Mac Driver will work with many different graphic software packages, we'll be looking at Adobe Illustrator for this example.

1. Click the Epilog icon to open the Epilog Viewer.



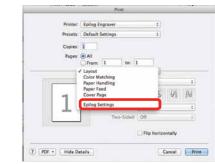
 In this example, we'll set up an Aztec Calendar engraving and cutting project. We've set up our graphic on our page and are ready to select File/ Print.



3. The standard Illustrator print window will come up, which will be different depending on which version of Mac OS you are using. Set your **Printer** to **Epilog Engraver** and **PPD** to **Default (Epilog PDE)**. Click **Setup** to access the laser settings.

	Providence Content
	PRD: [ Default storing PDID
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	sugge space (Berlind by Driver) vices
	Proc Layers ( Visite & Printable Layers ( +) Proc Layers ( 2) 10 × (+)
- 1 of 2 Optimum: 21 (1 + 3 H Made: 81 (1 + 12 H	same to no kar some to no kar

4. Click on the **Layout** drop-down menu and select **Epilog Settings**.

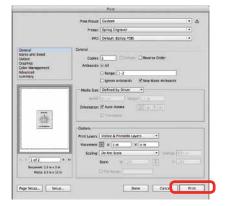


 Set your laser Settings. We've set our Job Type to Combined because we'll be both engraving and cutting in this job. For Raster Settings, we've used 50% speed, 100% power. For Vector Settings, we've used 30% speed, 70% power. Finally, our resolution has been set to 600 DPI.

When you have your settings how you'd like them, choose **Print**.

Print
Printer: Epilog Engraver \$
Presets: Default Settings \$
Copies: 1
Pages: • All From: 1 to: 1
Epilog Settings +
Options
Job Type: Combined +
Center-Center: None
Auto Focus Vector Grid Material Thickness: .000 Direct Print
Kaster Settings
Speed:50
Power: 100
Engraving Directon: Top-Down ‡
Image Dithering: Standard \$
Vector Settings
Speed: 30
Power: 70
Freq:
Vector Sorting: Standard +
Speed Comp. Power Comp.
Resolution
600

6. You will return to this print window, so click Print.



7. The driver will now transfer the job to the Epilog Viewer. The **Epilog Transfer icon** will appear in the Dock. The transfer will take several seconds.



8. Once the Epilog Transfer Icon disappears, the **Epilog** Viewer Icon will bounce up and down and you can click on the icon to access the Epilog Viewer.



It's important that the Epilog Viewer is open before printing. If it is not open, pause the transfer in the processing window, open the Epilog Viewer, and restart the transfer.

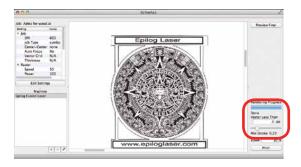


9. In the Epilog Viewer, click Edit Settings if you want to change any print settings, or click Print if the job is ready to send to the laser.



# **Vector Cutting Lines**

- 1. Unlike Windows, the Mac Driver allows you to set the line width that will be cut in the driver. For this file we have some lines that will be engraved and some that will be cut. The cut lines we set to 0.23 pixels, while the engraved lines we set to 1 pixel width.
- 2. At the bottom right corner of the screen type **.3** in the Vector Less Than box. This will cut any line that is less than .3 pixels in width and engrave any above that amount.



Vector Cutting Lines

3. To see which lines will be cut, click **Preview Final**. In the Epilog Viewer, you can see which lines are vectors and ready to be cut. Click on Preview Final and the vector lines less than 1 px will be shown in red.

