In This Section

- Print Driver Installation for USB Connection
- Using the Ethernet Connection and a Crossover Cable

Print Driver: The Epilog print driver is the software that allows your computer to talk to your Epilog laser system when either the USB or Ethernet Crossover cables are connected. This custom print driver is designed for use with either Windows XP or Windows 2000. The driver is included in the accessories kit on a CD-ROM or on our web site - www.epiloglaser.com. You will need to install the print driver by following the procedure below.

There are two ways of installing the Epilog print driver. Both methods are very similar, and your computer configuration will determine which method to use.

- The first method is to insert the Epilog CD into your computer's CD player and your computer will automatically start the installation process (this may take about 20 seconds or so to get going after you input the CD, so don't be surprised if nothing happens immediately).
- The other method also requires you to inset the CD into the CD player, but some computers have the Auto-Run feature turned off. If the Auto-Run process doesn't start after about 20 seconds you will need to access the driver installation a little differently. Go to the Start button on your computer (lower left corner of your monitor). Select *Settings* (or Control Panel), click on *Printers and Faxes*, then *Add Printer*. From this point you will be able to follow the procedure as outlined below.



The Mini and the Helix systems use the same print driver. The driver will identified as the "Legend Engraver MINI Win32" when it is installed onto your computer.

Print Driver Installation for USB Connection



Insert the Epilog Laser CD into your computer's CD player. It should Auto-Start and the following window should appear:



2. Click on the *Epilog Mini/Helix and Legend EXT Windows 2000/XP Driver* button. The following window appears:

WinZip Self-Extractor - mini_driver.exe 🛛 🔀						
To unzip all files in mini_driver.exe to folder press the Unzip button.	<u>U</u> nzip					
Linzin to folder:	Run <u>W</u> inZip					
c:/program files/epilog_driver	<u>C</u> lose					
verwrite files without prompting	About					
✓ When done unzipping open: RU	<u>H</u> elp					

3. Click on the <u>Unzip</u> button. It will take just a few seconds for the following window to appear:





4. Click on OK and the following window appears:



Click the *Next* > button to continue



Add Printer Wizard			
Local or Network Printer The wizard needs to know which type of printer to set up.			
Select the option that describes the printer you want to use:			
<u> < B</u> ack <u>N</u> ext > Cancel			

Select *Local printer attached to this computer* Deselect *Automatically Detect and Install* Click the *Next>* button to continue.

Add Printer Wizard					
Select a Printer Port Computers communicate with printers through ports.					
Select the port you want your printer to use. If the port is not listed, you can create a new port.					
Output See the following port:	USB001 (Virtual printer port for USB)				
● Les the following port: USB001 (Virtual printer port for USB) Note: Most computers u LPT1: (Recommended Printer Port) The connector for this p LPT3: (Printer Port) COMM: (Serial Port) COM4: (Serial Port) COM4: (Serial Port) COM4: (Serial Port) USB001 (Virtual printer port tor USB) Witcrosoft Document Imaging Writer Port; Usb001 (Virtual printer port for USB) USB002 (Virtual printer port for USB)					
< <u>B</u> ack <u>N</u> ext > Cancel					

Select one of the USB (USB001 or USB002) ports and then Click on *Next* > to continue.



Add Printer Wizard				
Install Printer Software The manufacturer and model determine which printer software to use.				
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.				
Manufacturer Printers Agfa AGFA-AccuSet v52.3 Alps AGFA-AccuSet v52.3 Apollo AGFA-AccuSet 800 Apple AGFA-AccuSet 800SF v52.3 AGFA-AccuSet 800SF v52.3 AGFA-AccuSet 800SF v52.3				
This driver is digitally signed. Windows Update Have Disk Tell me why driver signing is important Important Important				
Back Next > Cancel				

Click the *Have Disk* button. The following window appears:





Locate File		? 🗙
Look jn:	📄 epilog_driver 💽 🗿 🏂 🔛 🛛	
My Recent Documents	egend.inf	
Desktop		
) Mike		
My Computer		
	File name: LegendMINI.inf	<u>O</u> pen
My Network	Files of type: Setup Information (*.inf)	Cancel

Click on the *LegendMINI.inf* file then click on the *Open* button.



Click on the **OK** button.



Add Printer Wizard	
Install Printer Software The manufacturer and model determine which printer software to use.	You may need to use the
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.	scroll bar to see the Legend Engraver Mini Win32
Printers	driver.
Legend Engraver Win32 Legend Engraver EX Win32 Legend Engraver EX Win32 Legend Engraver MINI Win32	
Image: This driver is not digitally signed! Windows Update Tell me why driver signing is important Have Disk	
< <u>B</u> ack <u>N</u> ext > Cancel	

Select the **Legend Engraver Mini Win32** driver and then click on the *Next>* button.

Add Printer Wizard
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
Printer name: Legend Engraver MINI Win32
Do you want to use this printer as the default printer?
⊙ <u>Y</u> es
<u>○ №</u>
< <u>B</u> ack Next > Cancel

Name your printer and determine if you want the laser to be the default printer. You probably do if the laser is the only printer connected to your computer. Click the *Next*> button to continue.



Add Printer Wizard				
Printer Sharing You can share this printer with other network users.				
If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.				
Do not share this printer				
O <u>S</u> hare name:				
< <u>B</u> ack Next > Cancel				

Select Do not share this printer, then click on the *Next>* button to continue.

	Add Printer Wizard
	Print Test Page To confirm that the printer is installed properly, you can print a test page.
Select <i>No</i> . Click on the <i>Next</i> > button	Doyou want to print a test page? ○ Yes ⓒ Ng
	< <u>B</u> ack <u>N</u> ext > Cancel



Click on the *Finish* button.

Add Printer Wizard					
	Completing the Add Printer Wizard				
	You have successfully completed the Add Printer Wizard. You specified the following printer settings:				
	Name: Legend Engraver MINI Win32 Share name: <not shared=""></not>				
	Port: USB001 Model: Legend Engraver MINI Win32 Default: Yes				
	Test page:	No			
	To close this wizard, click Finish.				
< <u>B</u> ack Finish Cancel					

Click on the *Continue Anyway* button. While the print driver has not been tested by Microsoft, it will not destabilize your computer.



That's it! You're now ready to print to your laser system!

Using the Ethernet Connection and a Crossover Cable (Skip this part if you are using a USB cable described in the previous section.)



There are three easy steps involved in setting up the laser and computer system to operate through an Ethernet connection:

- 5. Setting the IP Address from the laser keyboard.
- 6. Setting up the IP Address in the computers TCP/IP.
- 7. Print Driver Installation



Note: The following instructions work only for a direct connection from the computer to the Epilog laser using a Crossover cable. This procedure does not work with a hub or a server. For Ethernet connections that require a hub, server, or multiple machines/computers, please consult with your network administrator.

Hardware Requirements



- A crossover cable connecting your computer to the laser (included in your accessories kit).
- Warning! The crossover cable looks almost exactly like a standard straight-through network cable, but they have different purposes for making network connections. Normally, the crossover cable should only be used when connecting the Epilog laser directly to your computer. Ask your network administrator for assistance if you are unsure of which type of cable you have. It is a good idea to place a tag or label on the cable indicating if it is a crossover cable or standard (CAT5) straight-through cable.

Setting the IP Address on the Laser



Be sure all packaging materials have been removed then plug the power cord into the laser system and turn the machine "ON". The laser will boot up, beep, and the carriage will find its home position.



The control panel serves two functions. It acts as the main control panel for all of the common laser functions and it is also used to program some of the setup functions of the laser system. In order to program some of these setup functions we assign a set of "hidden" numbers to the keys on the control panel. The diagram below shows which keys are associated with each hidden number.

									\backslash
GO	STOP							UP	POINTER
			Job	:1 .S a	mple	e.cdr		8	9
O DATA	0	1	2	3	4	5	6	7	\bigcirc
	RESET	SPEED	POWER	SET HOME	X/Y OFF	JOB	FOCUS	DOWN	

Figure 5: Control Panel with hidden numbers for use with Network Settings

In order to set up the laser system with the appropriate IP Address, you will need to set-up the laser through a sequence of steps that are described below.



Great Idea: Although it may seem intimidating if this is your first experience setting up Ethernet connections, it's really quite simple to accomplish. If you have problems, don't panic! You cannot do anything wrong that starting over will not fix!

There are three network protocols that will need to be set. They are set in the following order.

- > IP ADDRESS
- SUBNET MASK
- GATEWAY



- To set the IP Address press the *GO* and *POINTER* buttons simultaneously on the control panel. You will see "FUNCTIONS MENU" displayed on the control panel LCD screen.
- Press the GO button. "SERIAL #" will appear on the screen. This is a factory set number and corresponds to the serial number of the laser system. You should not change this serial number!
- 3. Press the GO button again. "IP ADDRESS" will appear on the screen.
- 4. Press the *GO* button again. The factory set IP address will appear on the screen. It will look something like this: "192.168.003.004", with a flashing box over the 1 in 192.
- 5. To change the IP Address, follow these instructions:
 - a) If you want to change the 1 in 192 to any other number, simply press the "hidden" number key for that number. For example, if you want to change the 1 (in 192) to a 4, press the "*X/Y Off*" key. After pressing the "*X/Y Off*" key the 1 will change to a 4. When a number key is pressed, the flashing box will automatically shift right to the next number in that three number group.
 - b) At this point, press the appropriate key for the second number (if you want to keep the 9 a 9, you must press the "*Pointer*" key).
 - c) Finally, press the appropriate key for the third number.
 - d) After pressing the key for the third number the flashing box will go back to the first number it WILL NOT shift to the next set of three numerals. If you want to move to the next group of three numbers simply press the GO button. Pressing GO will cause the flashing box to shift right to the next three number group. Repeat this process to change any of the numbers.

There is no way to simply scroll through the IP Address numbers and skip over single numbers you do not want to change. You can skip groups of three by pressing "Go", but skipping single numbers cannot be done. There is also no way to move the cursor (flashing box) backwards. The cursor scrolls through each three number group continuously until you press the "Go" button, where it will then go to the next three number groups. The following example shows you how to change the number 196 to 195. When you start with the flashing box over the 1, press the "Speed" button (this keeps the 1 a 1 and allows you to move to the next numeral). The flashing box will shift to the 9, where you will press the "Pointer" button (it will stay a 9 and the flashing box will shift right to the 6). Lastly, we want to change the 6 to a 5. Press the "Job" button. This will change the 6 to a 5 (it will also move the flashing box back to the 1 where you first started). If you now have the number you want to keep (195) and you are ready to move to the next three numeral set, pressing the "Go" button will get you there.



- e) Repeat this process for all of the number groups to get the IP Address you need.
- After all the IP address numbers have either been changed or verified as the ones you need, press GO again this will bring the "SUBNET MASK" screen.
- 7. Press *GO* again to see the "SUBNET MASK" settings. Use the same process of number selection using the keypads to select the appropriate number for the "SUBNET MASK"



Note: If you are using the cross-over cable provided by Epilog, make sure the "**SUBNET MASK**" is set to:

"255.255.255.0"

- 8. After you have set the "SUBNET MASK", Press GO again.
- 9. You will now see "GATEWAY", Press GO again.
- 10. The **GATEWAY** setting can be set using the same process of number selection using the key pads to select the appropriate numbers for "**GATEWAY**".



Note: The GATEWAY address is not important if you are using the provided cross over cable. If you are running your laser through a network, you will need to set the laser GATEWAY numbers to correspond to your network.

At the end of the programming process, the laser will prompt you to either SAVE or NO (Not Save) the numbers you have applied. The Screen will look like: Save - GO, No- STOP

Press the *GO* button to save the changes you made to the network settings. Press the *STOP* button if you do not want to save the changes and you want to return to the factory default.

If at any time in the programming process you want to stop or restart, press the *STOP* button. This will take you out of the programming functions. If you want



to restart the programming process, simultaneously press *GO* and *POINTER* to get back to the start of the Function Menu.

- Computer TCP/IP Setup

Once you have set the Network settings on the laser, you will need to set the TCP/IP at your computer.

From the Start menu at the bottom of your computer monitor screen select Start / Control Panel / Network Connections

- 1. Double click on *Local Area Connection*. This window will appear.
- 2. Highlight *Internet Protocol* (*TCP/IP*). As shown on the right.
- 3. Then click on the *Properties*.





The window below will appear. Select *Use the following IP address* radio button.

Type in the following (leave everything else blank on this page)

IP Address Subnet Mask

 192 168
 3
 3

 255 255 255 0
 3
 3

Default Gateway

Leave blank

This number is not an error -the last digit of the IP address in this window only must be different than the IP address set in the Epilog Mini/Helix.

- 6. Click the *OK* button
- 7. Click the last *OK* button and your computer is set to print through a crossover cable to the Ethernet port on the laser.

Internet Protocol (TCP/IP) Properties 🛛 🛛 💽 🔀					
General					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
O Dbtain an IP address automatically					
O Use the following IP address: ──					
IP address:	192.168.3.3				
S <u>u</u> bnet mask:	255.255.255.0				
<u>D</u> efault gateway:	· · ·				
O Obtain DNS server address autom	natically				
─⊙ Use the following DNS server add	resses:				
Preferred DNS server:					
Alternate DNS server:	· · ·				
Ad <u>v</u> anced					
OK Cancel					



Installing the Print Driver for an Ethernet Connection:

Installing the print driver for an Ethernet connection is very easy, but involves a few more steps than the USB connection.

To Begin:

- 1. Click the *Start* button at the lower left hand corner of your computer screen.
- 2. Click Settings, then Control Panel
- 3. Click on the *Printers and Faxes* icon.
- 4. Click on Add New Printer: The following window will appear.

Click *Next* > to continue.





Select Local printer attached to this computer

Deselect Automatically Detect and Install

Click the *Next*> button to continue.









Click *Next>* to Continue.

Add Standard TCP/IP Printer Port Wizard				
Add Port For which device do you want t	o add a port?			
Enter the Printer Name or IP ad	dress, and a port name for the desired device.			
Printer Name or IP <u>A</u> ddress:	192.168.3.4			
<u>P</u> ort Name:	IP_192.168.3.4			
	<u> </u>	Cancel		



Enter the same IP Address that you set in the control panel (on page 27 and 28). It's important that you use the same address in both places, but the format of the numbers looks a little different. In the control panel the IP Address will look like this: 192.168.003.004. When you enter the IP Address in this window, you do not need the zeros, and the address will look like this: 192.168.3.4.

Standard TCP/IP Pri	nter Port	Wizard	×	Con
dditional Port Informati The device could not be	ion Requir e identified.	red		Ethernet
he device is not found on t	he network	Resure that		
. The device is turned on.		bo outo that.		
The network is connected The device is properly co	ed. onfigured.			
uput think the address is no	ious page is it correct icli	correct.	ł	Click <i>Custom</i> , and then
e address and perform and elect the device type below	ther search	on the network. If you are sure the address is correct	÷	Settings.
Device Type				
O <u>S</u> tandard Generic N	letwork Car			
<u>Custom</u> <u>Setting</u>	s			
		< <u>B</u> ack <u>N</u> ext> Canc	el	
nfigure Standard	TCP/IP F	Port Monitor	×	Set Protocol to IPR This i
ort Settings				a very important step. You
				download time will be great
<u>P</u> ort Name:		IP_192.168.3.4		increased if LPR is not
Printer Name or IP <u>A</u> dd	ress:	192.168.3.4		selected.
Protocol				
<u>U H</u> aw		<u>●</u> <u>L</u> PR		
Raw Settings	0100			
Fort <u>N</u> amber.	9100			
LPR Settings				Type Lagend in the
	Leger			Oueue Name box.
I PB Bute Countin				C
	ig Enabled	1		
SNMP Status End	ig Enabled abled	1		
<u>SNMP</u> Status End Community Name:	abled public	3		
SNMP <u>D</u> evice Index	ng Enabled abled public : 1	3		Click OK to continue.
SNMP Status End Community Name:	ng Enabled abled public : 1			Click OK to continue.
SNMP Device Index	ng Enabled abled public : 1	d DK Cancel		Click OK to continue.

	tion Required le identified.	Click <i>Next></i> to continue.
The device is not found on 1. The device is turned or 2. The network is connect 3. The device is properly of 4. The address on the pre- If you think the address is n the address and perform an select the device type below Device Type O Standard Generic O Qustom Setting	the network. Be sure that: ed. onfigured. vious page is correct. ot correct, click Back to return to the previous page. Then correct other search on the network. If you are sure the address is correct, v.	Ethernet
l Standard TCP/IP Prin	< Back Next > Cancel Iter Port Wizard Image: Completing the Add Standard Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.	Click <i>Finish</i> to continue.

Add Printer Wizard				Connection
Install Printer Soft The manufacture	ware er and model	determine which printer software to use.	Ŷ	Ethernet
Select the main disk, click Hay compatible print Agra Alps Apollo Apple APS-PS This driver is digita <u>Tell me why driver</u>	hufacturer an re Disk. If you nter software	d model of your printer. If your printer carr ur printer is not listed, consult your printer AGFA-AccuSet v52.3 AGFA-AccuSet SF v52.3 AGFA-AccuSet 800 AGFA-AccuSet ACCUSET ACCUSET ACCUSET ACCUSET ACCUSET	e with an installation documentation for	Click <i>Have Disk</i> .
		< <u>B</u> ack Next :	Cancel	

Install F	rom Disk	
3	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel
	Copy manufacturer's files from:	Browse

Make sure the Epilog CD-ROM is in the computer's drive and click **Browse...** Select the CD-ROM Drive from the drives listed.

					Connectio
Locate File				?	Ethernet) 🐔
Look <u>i</u> n	: 😃 040408_09	35 (E:)	💌 🔇 🥬 🖻	9 🖽 -	
My Recent Documents	Contraction drivers for the second se				
Desktop					
My Documents					Select Drivers
My Computer					Select <i>Open</i> to continue
	File <u>n</u> ame:	autorun.inf		✓ <u>O</u> pen]
My Network	Files of type:	Setup Information (*.inf)		Cancel]
Locate File Look jn: My Recent	Mini Win2000_XP		v 3 🕫 🖻	? × ⊞•	Highlight <i>Mini</i> .
Documents					
My Documents My Computer					Select <i>Open</i> to continue
	File name:	autorup inf	~	Open	
My Network	Files of <u>type</u> :	Setup Information (*.inf)	×	Cancel	

Connection Etherne ?× Locate File 👱 🔇 🤌 📂 🔜-Look in: 🛅 Mini Select LegendMini LegendMINI 3 My Recent Documents B Desktop Ø My Documents Click Open to continue My Computer ~ File <u>n</u>ame: LegendMINI <u>O</u>pen Files of type: Cancel My Network Setup Information (*.inf)

Install F	rom Disk		Click OK to continue.
3	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	OK Cancel	
	Copy manufacturer's files from: E:\drivers\Mini	<u>B</u> rowse	

Section 5: Installing the Print Driver

Add Deinter Winned	Ethernet Connection
Install Printer Software The manufacturer and model determine which printer software to use.	Select <i>Legend Engraver MINI</i> Win32.
Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for compatible printer software.	You may need to use the scroll
Legend Engraver Win32 Legend Engraver EX Win32 Legend Engraver EX Win32 Legend Engraver MINI Win32	bar to access the Mini Driver. Click <i>Next</i> > to continue.
This driver is not digitally signed! Itell me why driver signing is important < Back Next > Cancel	

Add Printer Wizard	Name your prin
Name Your Printer You must assign a name to this printer.	if you want the default printer. if the Mini is the
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.	connected to yo
Printer name: Legend Engraver MINI Win32	
Do you want to use this printer as the default printer? ⊙Yes	
<u>O №</u>	
	Click <i>Next</i> > to c

ter and determine Mini to be the You probably do e only "printer" ur computer.

continue.

dd Printer Wizard	Connecto
Printer Sharing You can share this printer with other network users.	Ethernet)
If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.	Select <i>Do not share this printer</i> .
⊙ Do not share this printer	
O Share name:	
< <u>₿</u> ack <mark>N</mark> ext > Cance	Click <i>Next</i> > to continue.
dd Printer Wizard Print Test Page	
To confirm that the printer is installed properly, you can print a test page.	Ž
Do you want to print a test page?	Salaat Na
OYes	Select Ivo.
⊙ Ng	
	Click on the Nert > button
	Shek on the How Sutton.





While the Mini print driver has not been tested by Microsoft, it will not destabilize

That's it! You're now ready to print to your Mini/Helix laser