Vision Max and MaxPro Installation Guide

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Factory Settings

Red Dot Laser Pointer Offset			
X	_ Inches	mm	
Υ	Inches	mm	

This is ONLY the Installation Guide. PLEASE review the complete User Manual for your machine, which will be installed on your computer after the software installation is completed.

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Vision Engravers and Routers Installation Guide

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Revised: 12/29/2015

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1 Introduction

This guide contains information to prepare the new owner of a Vision Max or MaxPro Engraver for the proper installation of their machine. It is the customer's responsibility to read through this guide and make sure the work area, electrical and computer requirements are met prior to the arrival of a representative from Vision for the scheduled installation/machine orientation date. If for any reason, there are questions about these requirements, please call your Vision representative as soon as possible. IMPORTANT — Once your training day is scheduled, if for any reason you have to cancel training or change the dates, you may be subject to fees associated with your change request. However, if the trainer arrives at your facility on the day of training and you have to cancel or reschedule training at that time, a fee of \$750 will be required before Vision will send the trainer back to your facility in addition to fees associated with your change request. No exceptions.

In the following sections, the complete machine and Vision software installation will be outlined. There are three connection configurations possible with the Vision Engraver.

The first is a direct cable connection to your computer via the network port. There is a special "crossover" cable (the cable colored gray) supplied for this connection type. This configuration is for a stand alone computer that is NOT connected to a <u>WIRED</u> network or internet. A connection can be made to a computer that is connected to a wireless network in this manner.

The second configuration is for connection through a wired network using a standard Ethernet cable (DO NOT use the crossover cable when connecting to a network). In this configuration, the engraver or router will be recognized as a network device. Connection in this manner is the easier of the two connection types. If there are no network connections available, a network hub can be added to allow connection to your network.

The third configuration is for a connection from the computer to a hub (or router) and then to your machine. This is WITHOUT a computer network. Standard Ethernet cables are used in this configuration.

Please call your distributor or the service department at Vision for assistance if you are having problems with this procedure.

FOR MORE DETAILED INFORMATION, PLEASE REFER TO THE USER GUIDE FOR YOUR MACHINE INSTALLED WITH THE VISION SOFTWARE. USER GUIDES ARE ALSO AVAILABLE ONLINE AT http://www.visionengravers.com/support/vision-engraver-manuals.html

To begin installation, locate the White/Blue Dongle or Orange Dongle or USB Stick included with your machine in the Accessories Box

Important Note:

The Vision software is available in two versions; one with a dongle, and one that is "dongle-less" and is loaded on to a USB Memory stick.

If your machine was delivered with, or you currently have the white/blue or orange software dongle, DO NOT LOSE IT!

The Vision software will NOT run without the dongle plugged into the computer.



1.1 Computer Requirements

IT IS HIGHLY RECOMMENDED THAT THE COMPUTER USED TO OPERATE THE VISION ENGRAVER OR ROUTER BE CONNECTED TO THE INTERNET. THIS ALLOWS THE USER TO ALLOW VISION'S TECHNICAL SUPPORT TO ACCESS THE MACHINE AND TROUBLESHOOT IF NECESSARY.

Minimum System Requirements

CPU: Dual Core (2.0GHz or higher)

Hard Drive: 500 GB free space

RAM: 1GB + OS Requirements

Operating System: Windows 10 - 32 Bit & 64 Bit

Windows 8 & 8.1 - 32 Bit & 64 Bit

Windows 7 - 32 Bit & 64 Bit

Windows XP SP3 - 32 Bit (64 Bit not supported)

Ports: USB port for security dongle

Local or network Ethernet port to connect machine

Suggested System Requirements

CPU: Core i3 (or faster)

Hard Drive: 1 TB (or more)

RAM: 4GB + OS Requirements

Operating System: Windows 10 - 32 Bit & 64 Bit

Windows 8 & 8.1 - 32 Bit & 64 Bit

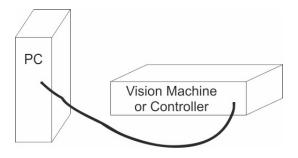
Windows 7 - 32 Bit & 64 Bit

Ports: USB port for security dongle

Local or network Ethernet port to connect machine

1.2 Direct Connection to Computer

Direct Connection to Computer Using Crossover Cable



Once the machine or controller is connected directly to your computer's network port with the crossover cable (the gray colored cable), turn the machine or controller on. The power switch for the Vision Express is located on the power supply box for the machine. The power switch for the VE810 is located below the LCD screen on the front of the machine. The power switch for the Vision Series 4 Controller is located on the front left of the Controller. Once the machine or controller has initialized, plug the supplied Vision USB drive (or white/blue or orange USB Dongle) into an available USB port on your computer.

NOTE - This installation is performed on a Windows 7 PC. For Windows XP, Windows 8, Windows 8.1 or Windows 10, the screens are slightly different.

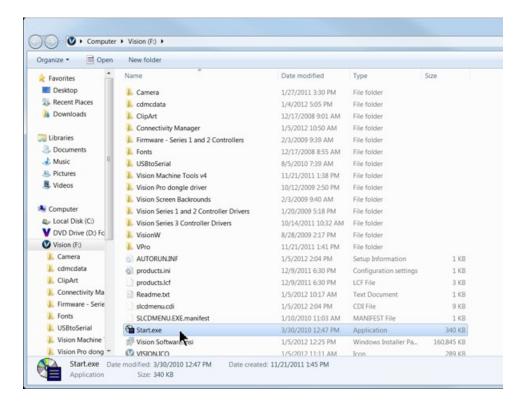
The computer will recognize the USB drive and the following screen will appear. Select Continue without scanning.



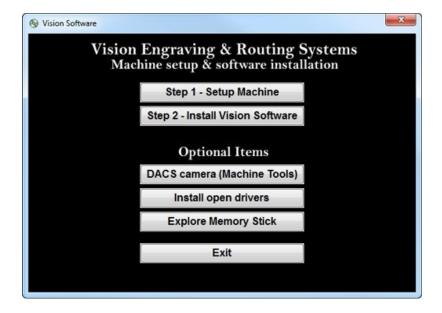
Select Open folder to view files.



Locate the file named Start and double click on the file to start the installation. The screen below shows Start.exe, but your computer might not show the .exe portion.



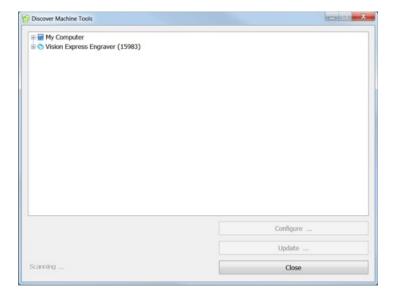
Select Step 1 - Setup Machine. This installs the Vision Connectivity Manager software.



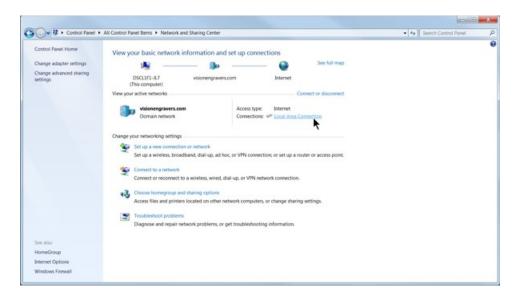
When the software is installed, select Finish.



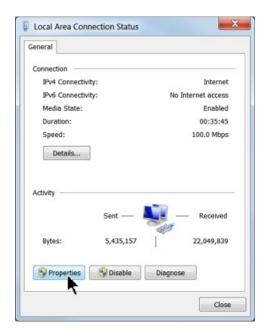
The Connectivity Manager will search for available Vision devices.



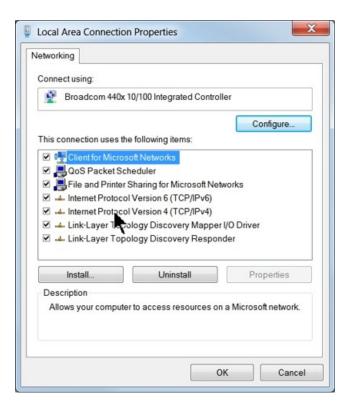
The computer's IP address will need to be set. NOTE - this should not cause any conflicts with your computer's wireless IP address, which is determined by the computer's wireless network card. To set the computer's IP address, open the Window's Control Panel. Depending on how you have this folder set, you will either see Network and Internet, or you will see the Network and Sharing Center immediately. If you see Network and Internet, select View Network Status and Tasks (which opens the Network and Sharing Center). If you see the Network and Sharing Center, open it. Then select Local Area Connection (as shown below).



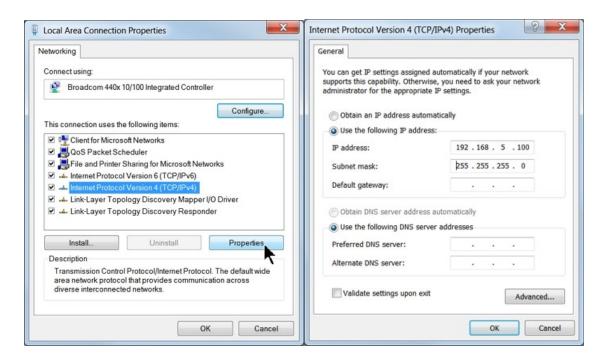
Select Properties.



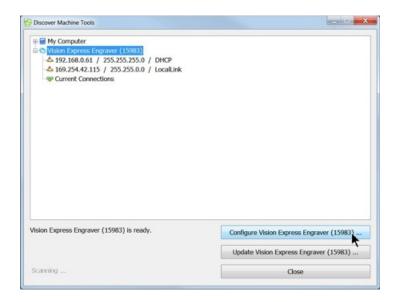
Then, select Internet Protocol Version 4 (TCP/IPv4).



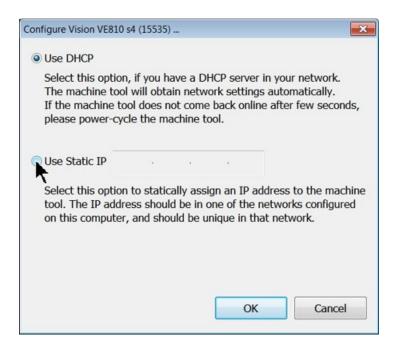
Then select Properties. Select Use the following IP address: and enter 192.168.5.100 and set the Subnet mask to 255.255.255.0 as shown. Then select OK and close any other network configuration windows.



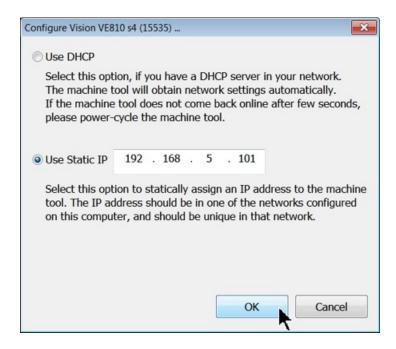
The IP address of the machine will need to be set to set up the connections properly. Select the + box next to the machine now listed in the Discover Machine Tools window to expand the information. Then select Configure (Your Machine) at the bottom of the screen.



Select Use Static IP.



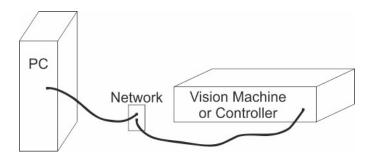
Set the IP address (as shown) to 192.168.5.101, then select OK. This sets the machine's IP address.



The configuration is complete at this point. Close the Discover Machine Tools window and return to the Main Installation Screen to proceed with the Vision software installation in the next section.

1.3 Network Connection

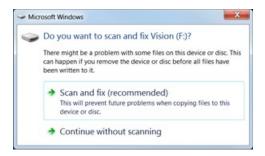
Connecting via Standard Network Cable to Network



Once the machine or controller is connected to your network, turn the machine or controller on. The power switch for the Vision Express is located on the power supply box for the machine. The power switch for the VE810 is located below the LCD screen on the front of the machine. The power switch for the Vision Series 4 Controller is located on the front left side of the controller. Once the machine or controller has initialized, plug the supplied Vision USB drive (or white/blue or orange USB Dongle) into an available USB port on your computer.

NOTE - This installation is performed on a Windows 7 PC. For Windows XP, Windows 8, Windows 8.1 or Windows 10, the screens are slightly different.

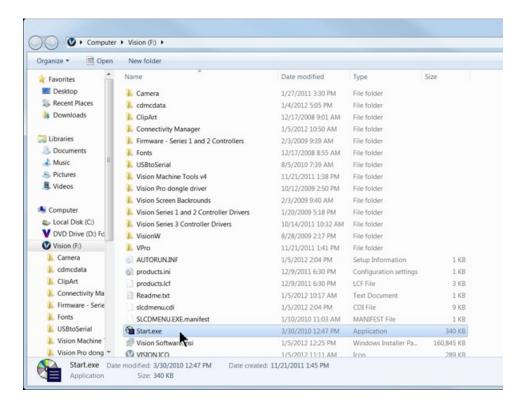
The computer will recognize the USB drive and the following screen will appear. Select Continue without scanning.



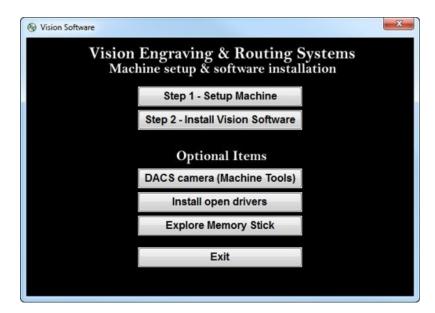
Select Open folder to view files.



Locate the file named Start and double click on the file to start the installation. The screen below shows Start.exe, but your computer might not show the .exe portion.



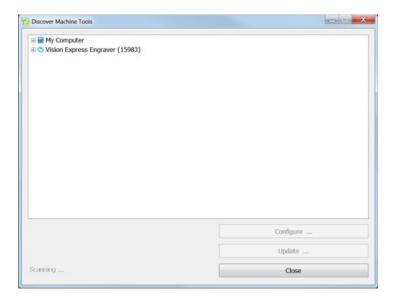
Select Step 1 - Setup Machine. This installs the Vision Connectivity Manager software.



When the software is installed, select Finish.



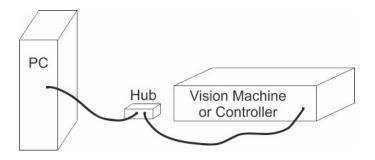
The Connectivity Manager will search for available Vision devices.



The configuration is complete at this point. Close the Machine Tools Discovery window and return to the Main Installation Screen to proceed with the Vision software installation in the next section.

1.4 Using a Router or Hub - ONLY

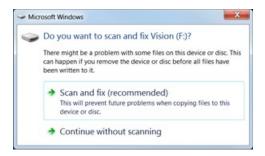
Connection from PC to Hub or Router to Machine or Controller



Once the machine is connected to a hub or router, and the hub or router is connected to your computer's network port, turn the machine or controller on. The power switch for the Vision Express is located on the power supply box for the machine. The power switch for the VE810 is located below the LCD screen on the front of the machine. The power switch for the Vision Series 4 Controller is located on the front left of the Controller. Once the machine or controller has initialized, plug the supplied Vision USB drive (or white/blue or orange USB Dongle) into an available USB port on your computer.

NOTE - This installation is performed on a Windows 7 PC. For Windows XP, Windows 8, Windows 8.1 or Windows 10, the screens are slightly different.

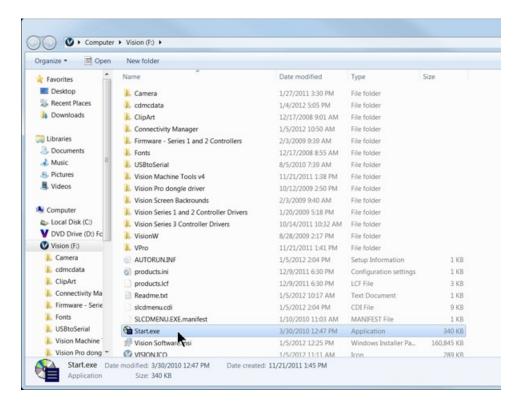
The computer will recognize the USB drive and the following screen will appear. Select Continue without scanning.



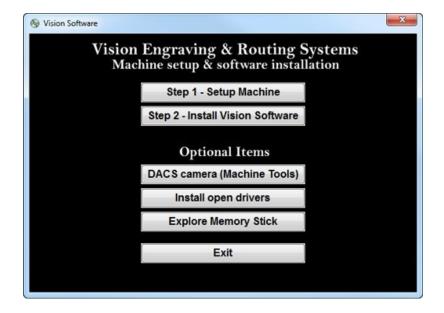
Select Open folder to view files.



Locate the file named Start and double click on the file to start the installation. The screen below shows Start.exe, but your computer might not show the .exe portion.



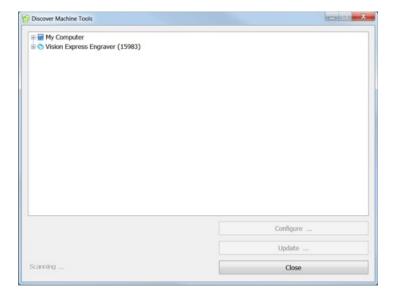
Select Step 1 - Setup Machine. This installs the Vision Connectivity Manager software.



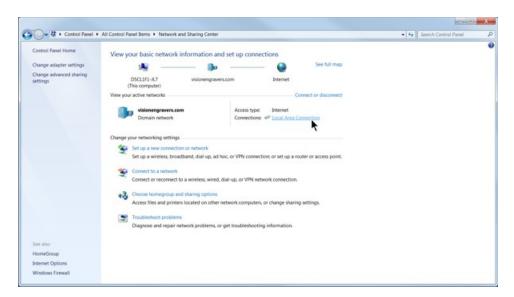
When the software is installed, select Finish.



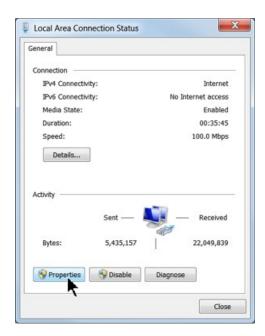
The Connectivity Manager will search for available Vision devices.



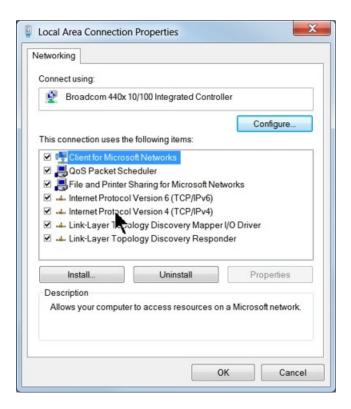
The computer's IP address will need to be set. To set the computer's IP address, open the Window's Control Panel. Depending on how you have this folder set, you will either see Network and Internet, or you will see the Network and Sharing Center immediately. If you see Network and Internet, select View Network Status and Tasks (which opens the Network and Sharing Center). If you see the Network and Sharing Center, open it. Then select Local Area Connection (as shown below).



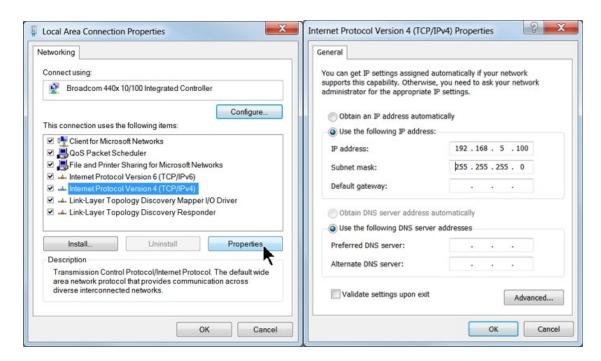
Select Properties.



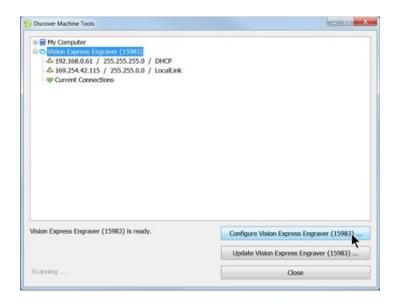
Then, select Internet Protocol Version 4 (TCP/IPv4).



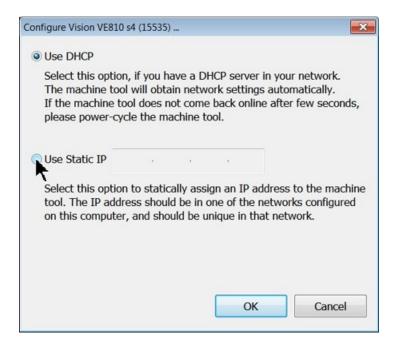
Then select Properties. Select Use the following IP address: and enter 192.168.5.100 and set the Subnet mask to 255.255.255.0 as shown. Then select OK and close any other network configuration windows.



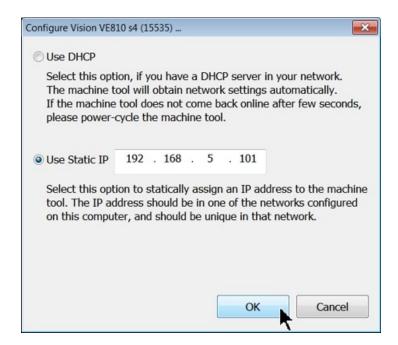
The IP address of the machine will need to be set to set up the connections properly. Select the + box next to the machine now listed in the Discover Machine Tools window to expand the information. Then select Configure (Your Machine) at the bottom of the screen.



Select Use Static IP.



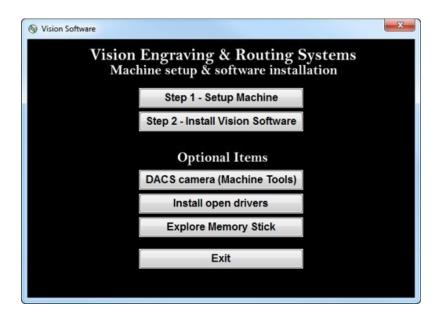
Set the IP address (as shown) to 192.168.5.101, then select OK. This sets the machine's IP address.



The configuration is complete at this point. The new IP address should appear in a few seconds in the Discover Machine Tools window. Close the Discover Machine Tools window and return to the Main Installation Screen to proceed with the Vision software installation in the next section.

1.5 Vision Software Installation

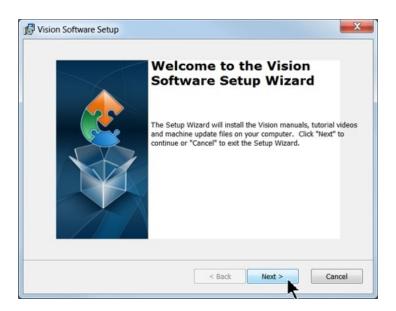
From the Main Installation Screen, Select Step 2 - Install Vision Software.



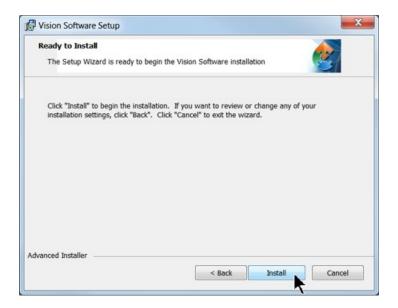
The Windows Installer will prepare the installation.



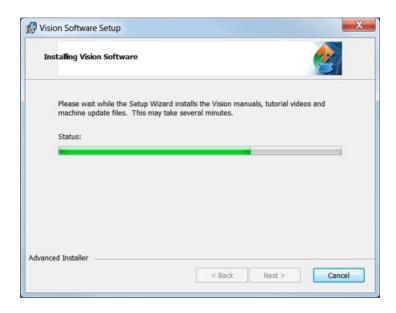
Select Next.



Select Install.



The installation will proceed.



Select the appropriate language and select OK.



Installation will proceed.



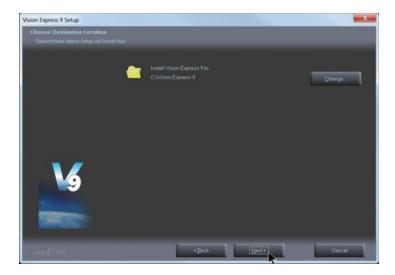
Select Next to begin the installer.



Select Accept the license agreement, then select Next.



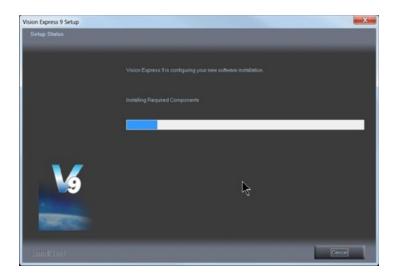
Select Next (or change the destination folder - not recommended).



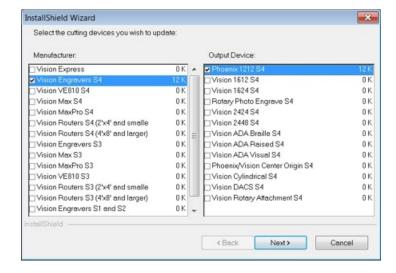
Select Next to create the folder.



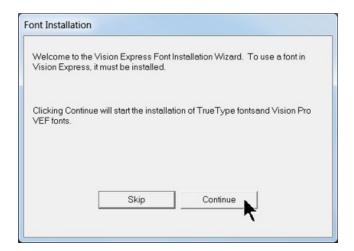
The installation will continue.



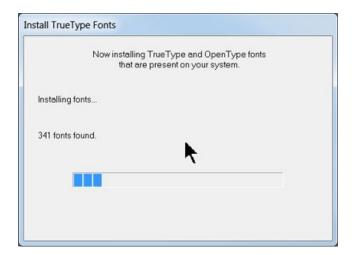
Select your machine from the Manufacturer list on the left side of this window by clicking in the box to the left of the machine (or machine series) you own. The right side of the window will list a selection of Output Devices. Only put a check mark in the box(es) to the left of the Output Device(s) you own. Then select Next. If you purchase another engraving system from Vision, it can be added to the machine list at a later date from within the Vision software.



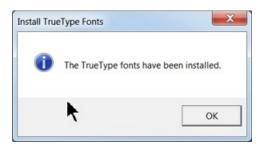
Select Continue to install True Type fonts and Vision Engraving Fonts on your computer.



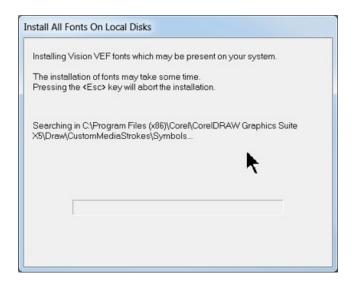
The software will look for True Type fonts on your computer and allow the Vision software to use them.



Once the True Type fonts are installed, select OK.



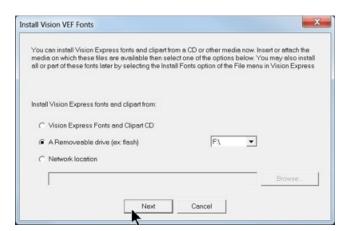
In this step, the software will install any Engraving fonts on your computer.



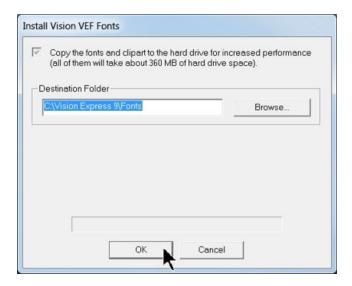
When complete, click on OK.



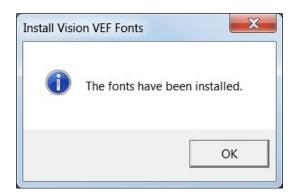
In order to install the fonts on the USB drive, select A Removable drive and from the drop down list, select the drive letter for the Vision USB drive plugged into your computer.



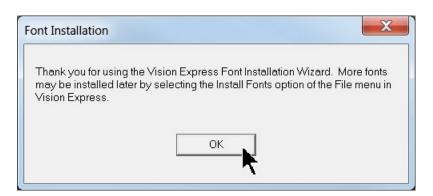
Select OK to install to the default folder.



Select OK. All fonts and clipart have been installed from the USB drive at this time.



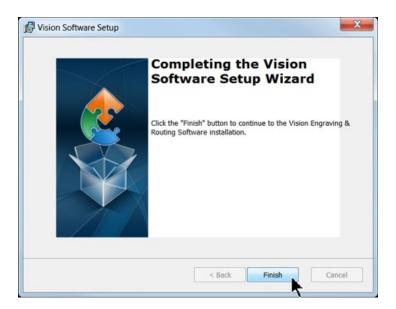
Select OK to return to the main installation screen.



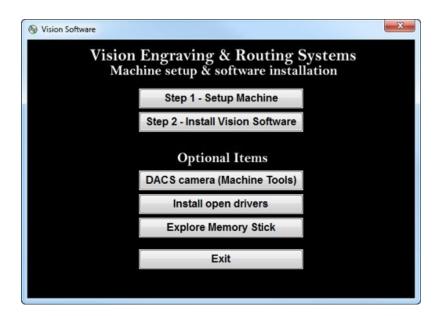
To complete the installation, select Finish.



To close the Software Setup window, select Finish.



Select Exit to close the installer.



The Vision manuals icon should now appear on your computer's desktop along with an icon for your version of Vision 9 software.





Clicking on the Vision manuals link will give the user access to User Manuals, Installation Guides, Accessories and Training Videos.

If you were supplied with a White/Blue or Orange Dongle, keep it installed in your computer's USB port in order to use the Vision software. If you were supplied with another color USB stick with your machine, it can be removed at this time from your computer. Installation is now complete.

2 General Electrical and Facility Requirements

Machine Model	Requirements
MAX and MAX Pro	One 110 VAC 15 Amp or One 220 VAC 10 Amp Single Phase
Optional Equipment Engraving Vacuum Chip Removal System	One 110 VAC 15 Amp
Optional Equipment Requiring Compressed Air Supply UNIST Misting System	Clean Dry Compressed Air Supply 60 - 90 PSI
NSK High Frequency Spindle	Clean Dry Compressed Air Supply 1 SCFM @ 40 PSI

NOTE: In addition to the above requirements, a 110 VAC standard outlet is required for the computer.

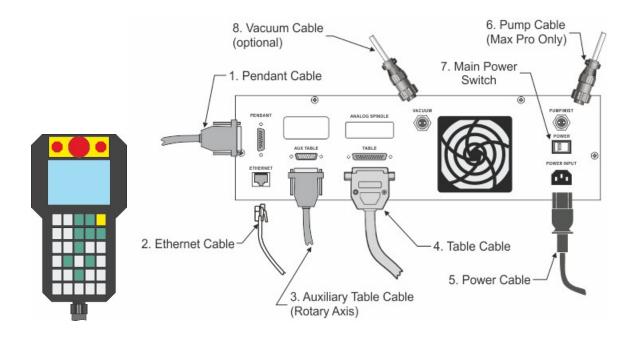
3 MAX and MAX PRO

Max and Max Pro Connections

The Vision Max and Max Pro machines have an integrated controller inside the base of the machine. The machines need to have the following cables connected to the controller.

- 1. The engraver's Pendant is connected to the Pendant cable port.
- 2. The Ethernet Cable from your computer, hub or network is connected to the Ethernet port.
- 3. The Auxiliary Table Cable is connected to the Aux Table port and powers the machine's rotary axis.
- 4. The Table Cable connects from 25 pin connector on the engraver to the Table port.
- 5. The Power Cable connects a 110 220 VAC electrical source to the controller and powers the controller, table and spindle.
- 6. The Pump Cable (Max Pro only) connects to the Pump/Mist port and powers the machine's water pump for glass engraving.
- 7. Main Power switch (for reference only)
- 8. If you machine was equipped with the optional Vacuum Chip Removal System, the Vacuum Cable from the vacuum pump will connect to the Vacuum port.

Series 4 Pendant and Integrated Controller Connections



3.1 MAX and MAX PRO Layout Diagram

* This dimension is added to allow for clearance on the rear of the machine for cables and for air flow to the cooling fan.

