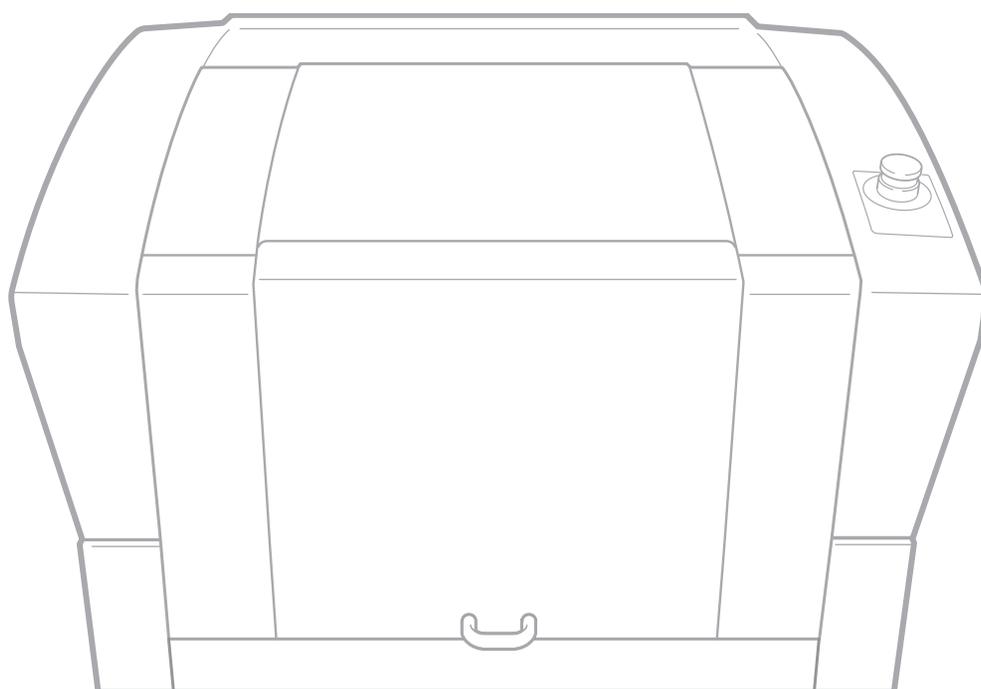


DE-3

DGSHAPE ENGRAVER

LAN Connection Guide



This guide explains how to configure settings for sending and receiving data over a network with a machine equipped with a LAN terminal.

This document is written for machines equipped with a LAN terminal. It does not apply to machines equipped just with a USB terminal.

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Thank you very much for purchasing this product.

- To ensure correct and safe usage with a full understanding of this product's performance, please be sure to read through this manual completely and store it in a safe location.
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 - The contents of this operation manual and the specifications of this product are subject to change without notice.
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Connecting to the Computer

Follow the procedure below to connect this machine over the LAN to a computer to which it has never been connected before, such as when adding a new computer to the network.

- * With LAN connections, simultaneous connections to multiple machines are possible. However, output data from the computer to one machine at a time. Simultaneous output to multiple machines is not supported.

Step 1: Determining the LAN Address

Important: Windows firewall function

During LAN communication, this machine uses TCP ports 9100 and 9500. If using the Windows firewall function, set it so that ports 9100 and 9500 are not blocked.

Important: Network settings

The settings listed here are only an example. The procedure and settings given in this manual do not match every environment. In an environment where the computer being used is connected to multiple network devices and the Internet, inappropriate settings will have a large effect on the entire network. For detailed information about the settings, consult your network administrator.

Determine the IP address, subnet mask, and default gateway to connect the computer and this machine via a LAN.

Connecting the Computer and the Machine Directly

- * The settings used in this section are merely examples.

	Computer	Machine	Remarks
IP address	192.168.1.XXX	192.168.1.YYY	Ensure that these are unique numbers compared to other network devices and that "XXX" and "YYY" represent unique numbers from 1 to 254.
Subnet mask	255.255.255.0	255.255.255.0	Use the same number for the computer and engraving machine.
Default gateway	192.168.1.AAA	192.168.1.BBB	"AAA" and "BBB" represent unique numbers from 1 to 254. This setting may not be necessary. For details, check with your network administrator.

Connecting to an Existing LAN Environment

For each setting value, check with your network administrator.

	Computer	Machine
IP address	Check with your network administrator.	Check with your network administrator.
Subnet mask	Check with your network administrator.	Check with your network administrator.
Default gateway	Check with your network administrator.	Check with your network administrator.

Step 2: Setting the Computer's Network

* This step is not necessary when connecting to an existing LAN environment. Proceed to P. 7 "Step 4: Configuring the Network Settings for This Machine".

- 1 Log on to Windows as the computer's administrator or as a member of the "Administrators" group.
- 2 Display the [Internet Protocol Version 4 (TCP/IP) Properties] window on the computer.

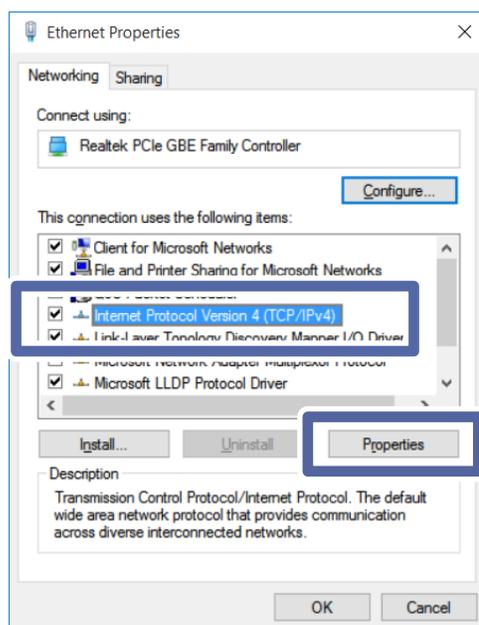
Windows 11

- 1 On the [Start] menu, click [Settings].
- 2 Click [Network & internet], [Dial-up], then [Network and Sharing Center].
- 3 Click [Change adapter settings] from the list on the left side of the window.
- 4 Right-click [Ethernet] or [Wi-Fi].
- 5 Click [Properties].

Windows 10

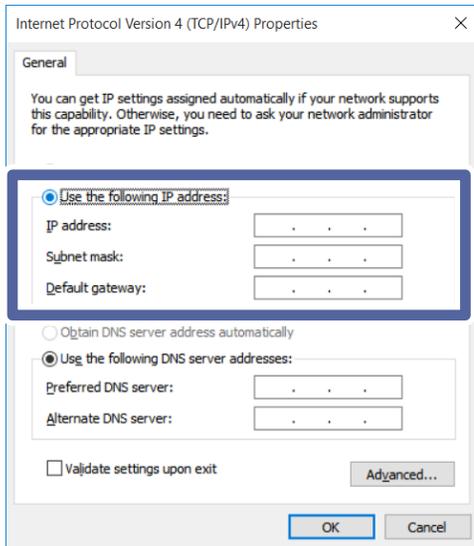
- 1 On the [Start] menu, click [Settings].
- 2 Click [Network & Internet] then [Network and Sharing Center].
- 3 Click [Change adapter settings] from the list on the left side of the window.
- 4 Right-click [Ethernet].
- 5 Click [Properties].

- 3 Select [Internet Protocol Version 4 (TCP/IPv4)], and then click [Properties].



* With a Wi-Fi connection, the name of this window is [Wi-Fi Properties].

- 4 Select [Use the following IP address], and then enter the number you determined in step P. 2 "Step 1: Determining the LAN Address".



- 5 Click [OK] or [Close] to close the windows that have been displayed in the procedure.

Step 3: Installing the Software

You can install the driver, software, and electronic-format manual all at once. You can also install the driver and each piece of software separately.

☞ "User's Manual" (electronic-format manual) "Installing the Driver Separately"

Important

Be sure to connect the machine to the computer as instructed in the procedure. Failure to follow the correct procedure may make installation impossible.

System Requirements

Operating system (OS)	Windows 11/10 (32-bit and 64-bit versions)
CPU	Minimum required CPU for the operating system
Memory	Minimum amount of required RAM for the operating system (1 GB or more recommended)
Optical drive	CD-ROM drive
Video card and monitor	A monitor with at least 256 colors and a resolution of 1024 × 768 or more is recommended.

- This software is a 32-bit application and therefore runs in WOW64 (Windows-On-Windows 64) when running on 64-bit versions of Windows operating systems.

For the latest information, see the DGSHAPE Corporation website (<https://www.dgshape.com/>).

Installable Software

DGSHAPE Engraver Driver (hereinafter referred to as "Engraver Driver")	This is a driver required for sending data from a computer to the machine.
Dr. Engrave Plus	This software creates the text and shapes to engrave. For details on the functions, see the help for Dr. Engrave Plus software.
SFEdit2	This software can create and edit line text. Line text is a line drawing, which is created by automatically extracting the centerline of True Type font. You can use the line text you created as a font in Dr. Engrave Plus.
Setup Guide (electronic-format manual)	This is the PDF of this document. The contents are the same.
User's Manual (electronic-format manual)	This manual explains how to operate the software, how to perform engraving using this machine, and how to perform maintenance.

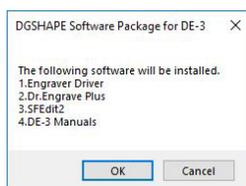
Procedure

- 1 Before installation, confirm that the machine and the computer are not connected with the USB cable or LAN cable.**
Log on to Windows as an "Administrator."
- 2 Insert the DGSHAPE Software Package CD into the CD-ROM drive of the computer.**
When the automatic playback window appears, click [Run menu.exe]. If a [User Account Control] window appears, click [Allow] or [Yes], and then continue with the installation.
The setup menu screen appears automatically.

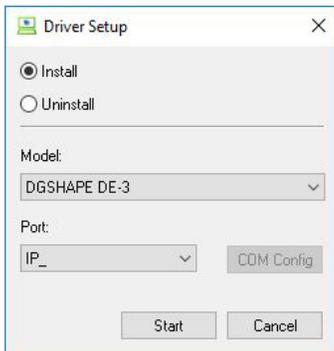
- 3 Click [Install].**



- 4 Click [OK].**



- 5 Select [Install], [DGSHAPE DE-3] for the model name, and [IP_] for the port, and then click [Start].



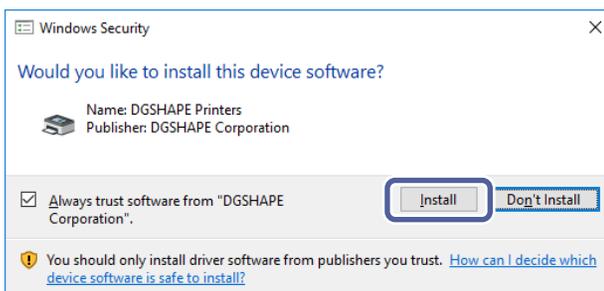
Engraver Driver installation begins. Proceed with the installation by following the displayed information.

- 6 Enter the IP address, and then click [OK].

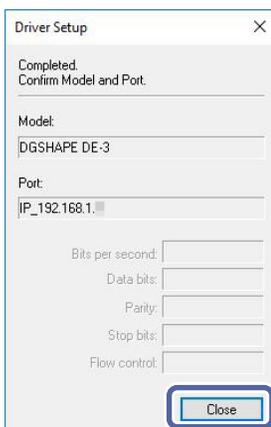
Enter the IP address for this machine you determined in step P. 2 "Step 1: Determining the LAN Address".



- 7 If the following window appears, click [Install].

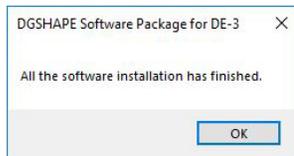


- 8 When the window shown in the following figure appears, click [Close].



Installation information for each piece of software will be displayed automatically. Follow the instructions displayed for each installer to continue with the installation.

- 9 If the following window appears, click [OK].



- 10 Click × on the setup menu screen to close it.



- 11 Remove the DGSHAPE Software Package CD from the computer.

How to View the Electronic-Format Manual

Windows 11

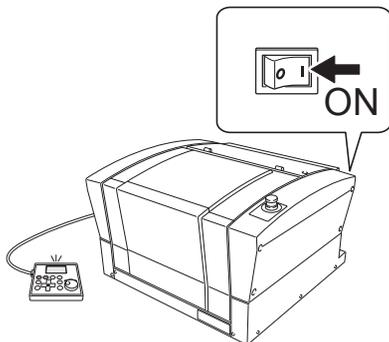
From the [Start] menu, click [All apps], [DGSHAPE DE-3], and then click [Setup Guide] or [User's Manual].

Windows 10

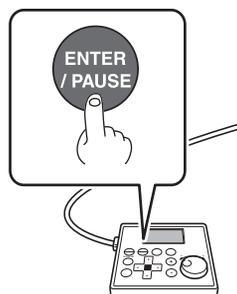
From the [Start] menu, click [DGSHAPE DE-3], and then click [Setup Guide] or [User's Manual].

Step 4: Configuring the Network Settings for This Machine

- 1 If the front cover is open, close it.
- 2 Switch on the power switch.



- 3 Press [ENTER/PAUSE].



- 4 Press [MENU/TOP] on the handy panel several times to display the following menu.

	READY
SETTINGS	▼
▶OPERATING MODE	
SPINDLE REVOLUTION	ON
AUTO Z CONTROL	OFF

- 5 Turn the [Dial] and select [LAN].

	READY
SETTINGS	▼
DISTANCE CORRECTION	
LASER CORRECTION	
▶LAN	

- 6 Press [ENTER/PAUSE].

- 7 Turn the [Dial] and select [IP].

	READY
LAN	
▶IP	192.168.001.254
SUBNET	255.255.255.000
GATEWAY	000.000.000.000

- 8 Press [ENTER/PAUSE].

- 9 Set the IP address.

Enter the IP address for this machine you determined in step P. 2 "Step 1: Determining the LAN Address".

- ① Turn the [Dial] to move the cursor to the section to change.

	READY
IP	
▶192	168 . 001 . 254

- ② Press [ENTER/PAUSE].

- ③ Turn the [Dial] to set the value.

	READY
IP	
192	168 . 001 . 254

- ④ Press [ENTER/PAUSE].

- ⑤ Repeat steps ① to ④.

- 10 After you have entered the IP address, press [MENU/TOP].

- 11 When the following screen is displayed, use the [Dial] to select [Yes], and then press [ENTER/PAUSE].

If the value has not changed, this screen is not displayed.

READY	
IP	
Change the address?	
192 168 . 001 . 254	
▶Yes	No

- 12 Enter all the items by repeating steps 7 to 11.

- [IP]: IP address
- [SUBNET]: Subnet mask
- [GATEWAY]: Default gateway

- 13 Hold down  and press [MENU/TOP].

The main screen appears again.

PAUSE	
X	50.00 _{mm}
Y	30.00 _{mm}
Z	20.00 _{mm} S 5000 _{rpm}

- 14 Restart the machine.

Step 5: Connecting the LAN Cable

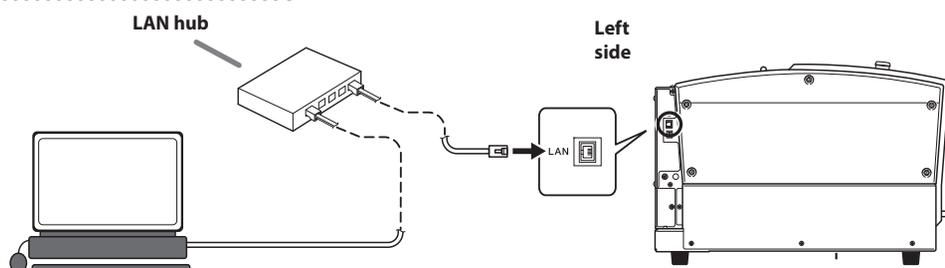
- You have to prepare a LAN cable (Category 5 or higher) separately.
- We recommend 100BASE-TX for the Ethernet.

Important

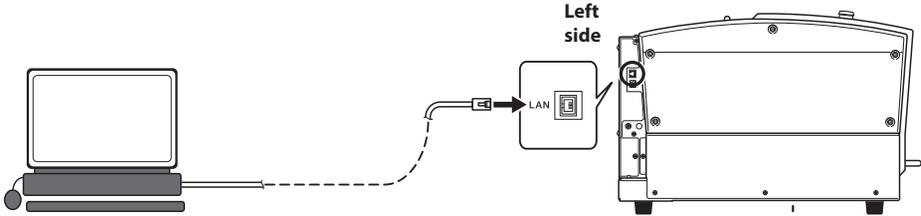
Do not connect a LAN cable and a USB cable to the machine at the same time. Also, wire the LAN cable so that it does not come into contact with the power cord. The LAN cable coming into contact with other cables will result in communication errors due to electrical noise.

Connecting the Computer and the Machine Directly

Connecting through a LAN hub



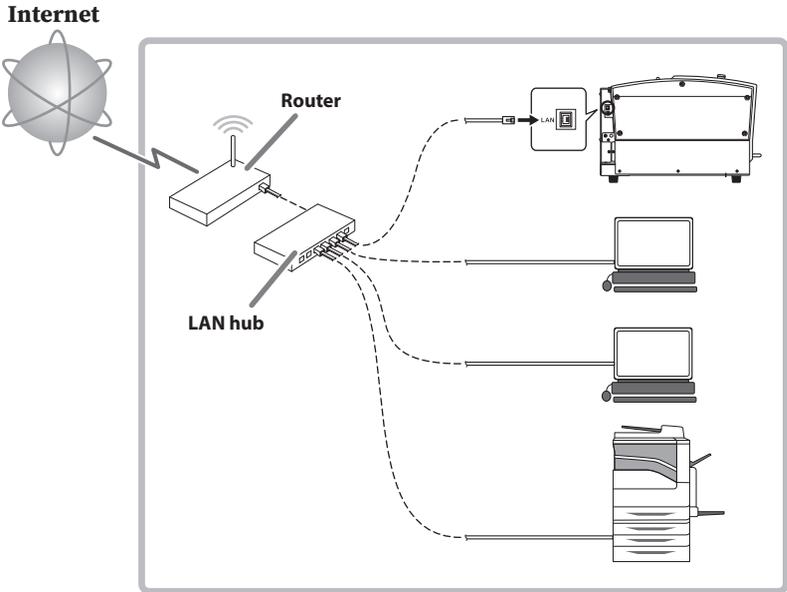
Connecting the machine and the computer directly



MEMO

A direct connection to the machine is possible when using a crossover cable. In addition, if the computer supports AUTO MDI/MDI-X, a direct connection to the machine is possible when using a straight cable.

Connecting to an Existing LAN Environment



* An example of a LAN (Local Area Network) configuration

Troubleshooting (Machine Problems)

The Operation Button Does Not Respond When Pushed

Check	Action
Are cables connected?	Securely connect the power cord and the LAN cable connecting the computer and this machine. ☞ Setup Guide ☞ P. 9 "Step 5: Connecting the LAN Cable"

The USB Cable/LAN Cable Has Come Loose during Engraving

Check	Action
Was the data engraved until the end? (If the machine did not receive all the engraving data, engraving is carried out for the portion received.)	Securely connect the power cord and the USB cable connecting the computer and this machine. ☞ User's Manual

The Machine Does Not Move When Engraving Data Is Sent

Check	Action
Are the settings for the machine and computer correctly configured?	Check that the IP address, etc. have been set correctly. ☞ P. 3 "Step 2: Setting the Computer's Network"

Uninstalling the Driver

To uninstall Engraver Driver, follow the procedure below.

Important

When you uninstall the driver, the driver for the USB connection and the driver for the LAN connection will both be deleted regardless of which connection method you are using.

Installing the Driver Separately

For the method to follow to install Engraver Driver and the other software separately, see the User's Manual.

Important

- Do not connect a LAN cable and a USB cable to the machine at the same time.
- When connected to multiple machines with LAN connections, simultaneous output to multiple machines is not supported.

