

Mimaki CG-AR Plotter Driver

Operation Manual

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Introduction

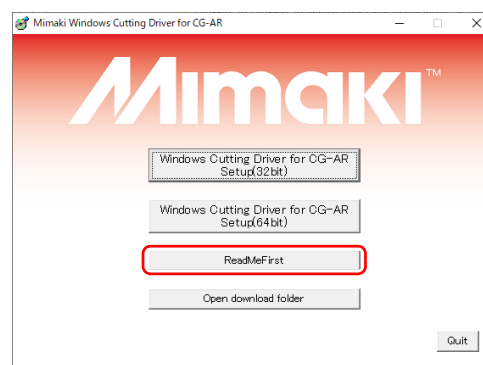
Using the Windows plotter driver allows vector data to be extracted from data printed using an application and then output to a plotter.

Precautions

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- The latest issue of this document can be downloaded from our official site.

Please Read Before Using the Plotter Driver

Before using the plotter driver, click [ReadMeFirst] on the CG-AR plotter driver installation screen to confirm compatible machines, compatible applications, and precautions.



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Explanation of Symbols

Precautions and points of note relating to settings and operations are indicated by the following symbols:

Symbol	Explanation
	The “IMPORTANT” symbol indicates important information for using the plotter driver.
	The “Tips” symbol indicates useful information.

Supported Plotter

This plotter driver supports the following MIMAKI ENGINEERING CO., LTD. plotter:

- CG-AR series

System and Software

The following system environment is required to install and use the plotter driver:

Operating System	Windows 10 (32 bit/64bit), Windows 11 (64bit)
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When Using Creasing Tool (Option)

When using the creasing tool, “cut” should be substituted for “crease” as necessary.

Installing the Plotter Driver



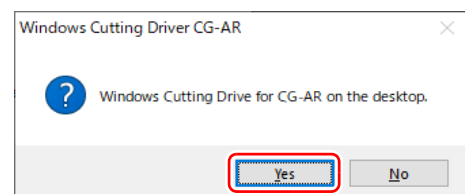
- Administrator rights are required to install and uninstall the plotter driver.

Installing the Plotter Driver

- 1 Connect the plotter to a PC using a USB interface cable or LAN cable.
- 2 Download the CG-AR plotter driver from our official site (<https://mimaki.com/download/>).

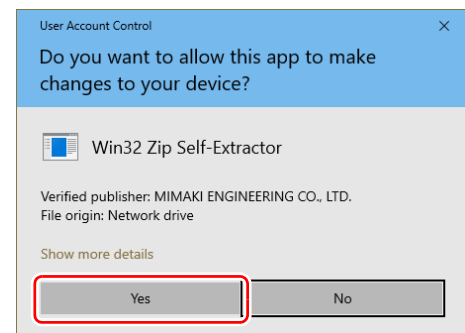
- 3 Double-click the downloaded file and expand it on the desktop.

- The [User Account Control] dialog appears.



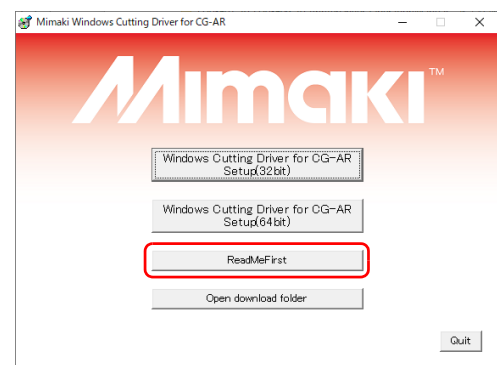
- 4 Click [Yes] on the [User Account Control] dialog.

- The plotter driver installation window appears once the file has been expanded on the desktop.
- If you accidentally close the installation window, it can be redisplayed as follows:
 - (1) Open the "Windows_Cutting_Driver_CG-AR" folder on the desktop.
 - (2) Double-click "CDMenu.exe" to launch it.



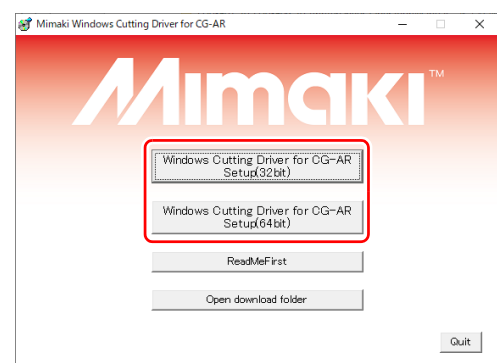
- 5 Click [ReadMeFirst] on the installation screen.

- A text file is displayed. Confirm the compatible machines, compatible applications, and precautions for the plotter driver.

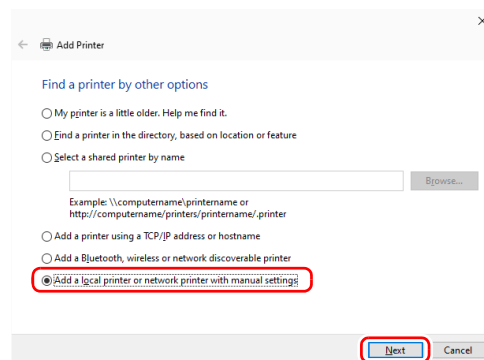


- 6 On the installation window, click [Windows Cutting Driver for CG-AR Setup] for the operating system used by the PC on which the driver is to be installed.

- The [Add Printer] wizard appears.

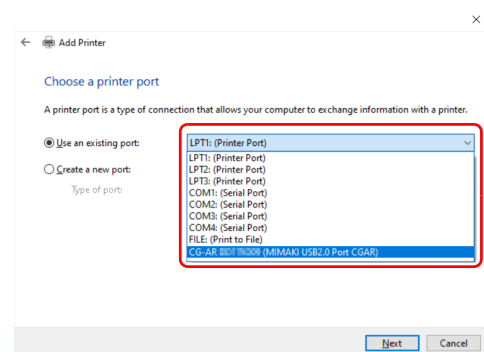


7 Select [Add a local printer or network printer with manual settings], then click [Next].

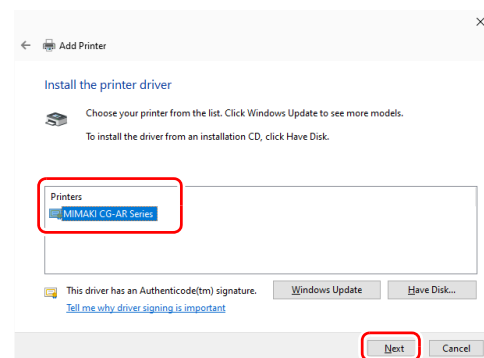


8 Select the printer port, then click [Next].

- The [Install the plotter driver] window appears.
- If no printer port (port beginning with "CG-AR") is found, click [Next], then set the printer port after installation is complete.
- The printer port can be changed later. (👉 "Set the output port" (P.17) onward)

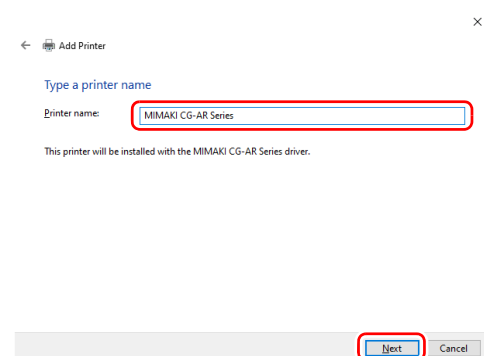


9 Select "MIMAKI CG-AR Series", then click [Next].



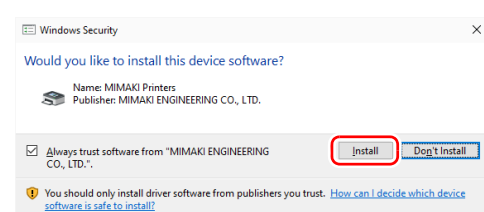
10 Enter a name for the printer, then click [Next].

- The printer name can be changed later.
- The [Would you like to install this device software?] dialog appears.



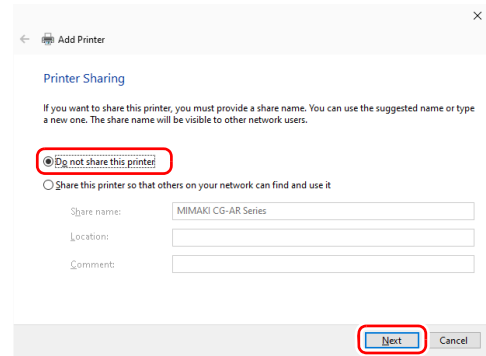
11 Click [Install].

- Installation starts.
- The [Printer Sharing] window appears.



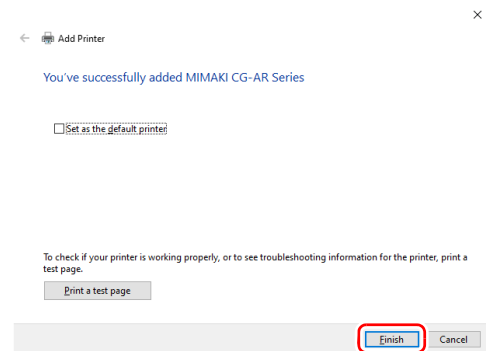
12 Select [Do not share this printer], then click [Next].

- The window to finish the installation appears.



13 Click [Finish].

- Once installation is complete, the CG-AR printer name entered in [Step10\(P.6\)](#) is added to the printer list.

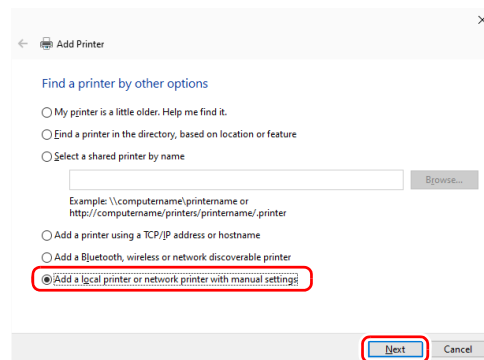


Installing the Driver Using an INF File

Use this method to install the driver if it cannot be correctly installed using the normal installation method (🔧 ["Installing the Plotter Driver" \(P.5\)](#)). This procedure is not required if the driver has already been installed correctly.

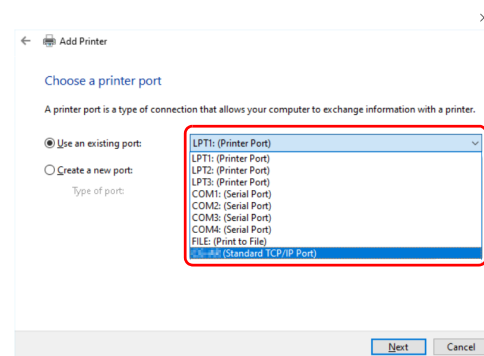
- 1 Connect the plotter to a PC using a USB interface cable or LAN cable.**
- 2 Click the Windows Start menu, then click [Settings].**
 - The [Windows Settings] window appears.
- 3 Click [Devices].**
 - The [Bluetooth & other devices] window appears.
- 4 Click [Printers & scanners] in the list on the left-hand side.**
 - The [Printers & scanners] window appears.
- 5 Click [+ Add a printer or scanner].**
 - A list of the available printers is displayed.
- 6 Click [The printer that I want isn't listed] below the printer list.**
 - The [Add Printer] wizard appears.

7 Select [Add a local printer or network printer with manual settings], then click [Next].



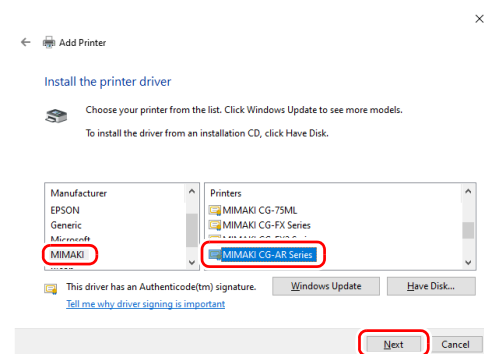
8 Select the printer port, then click [Next].

- The [Install the plotter driver] window appears.
- If no printer port is found, click [Next], then set the printer port after installation is complete.
- The printer port can be changed later. (👉 "Set the output port" (P.17) onward)

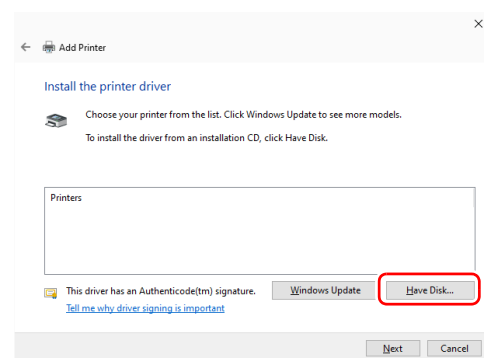


9 If "MIMAKI" is not listed for the manufacturer, proceed to the next step. If "MIMAKI" is listed for the manufacturer, select the following items, click [Next], then proceed to Step14(P.9).

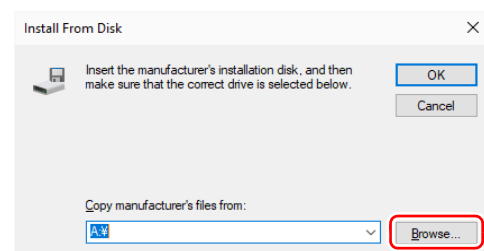
- Manufacturer: MIMAKI
- Printer: MIMAKI CG-AR Series



10 Click [Have disk].

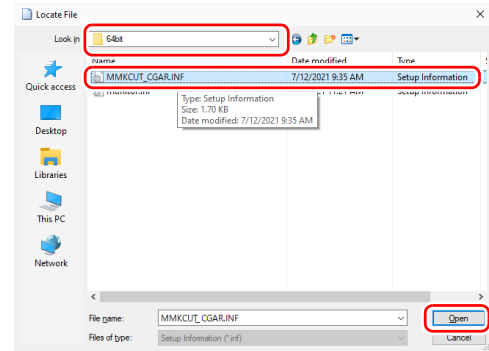


11 Click [Browse].



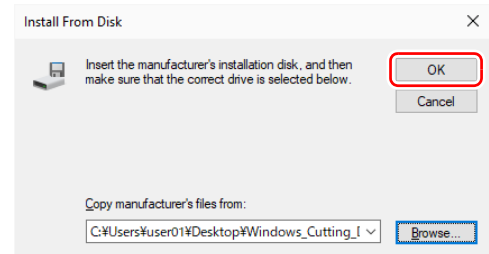
12 Select the following file, then click [Open].

- Folder: Folder expanded on desktop:
C:\Users\[userID]\Desktop\Windows_Cutting_Driver_CG-AR\
- File: For 64 bit: 64bit\MMKCUT_CGAR.INF
For 32 bit: 32bit\MMKCUT_CGAR_32.INF



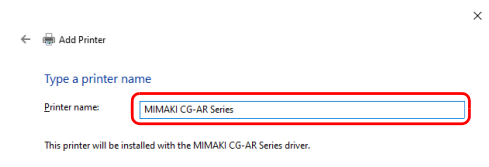
13 Click [OK].

- The [Install the plotter driver] window appears again.



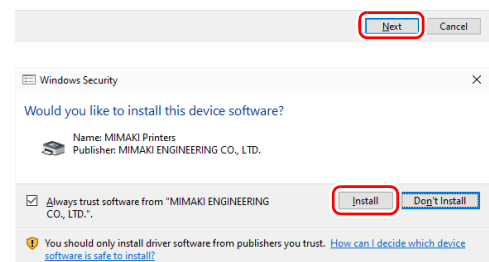
14 Enter a name for the printer, then click [Next].

- The printer name can be changed later.
- The [Would you like to install this device software?] dialog appears.



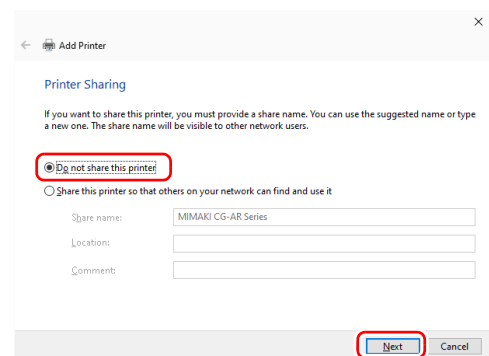
15 Click [Install].

- Installation starts.
- The [Printer Sharing] window appears.



16 Select [Do not share this printer], then click [Next].

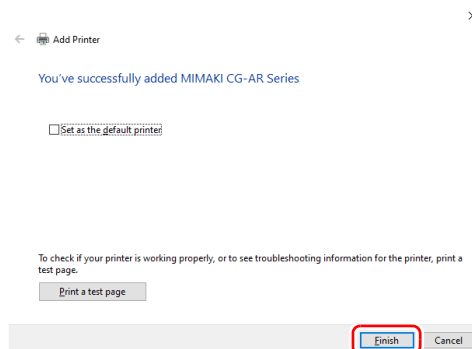
- The window to finish the installation appears.



17

Click [Finish].

- Once installation is complete, the CG-AR printer name entered in [Step14\(P.9\)](#) is added to the printer list.



Uninstalling the Plotter Driver

- ### 1

Click the Windows Start menu, then click [Settings].

 - The [Windows Settings] window appears.
- ### 2

Click [Devices].

 - The [Bluetooth & other devices] window appears.
- ### 3

Click [Printers & scanners] in the list on the left-hand side.

 - The [Printers & scanners] window appears.
- ### 4

Select a CG-AR printer name (user specified).
- ### 5

Click [Delete device].

 - The CG-AR plotter driver is uninstalled.

Outputting Using the Plotter Driver

Output using the Windows plotter driver is dependent on the application being used.

When using the Windows plotter driver for the first time, check whether data can be output to the plotter from the application being used.

A list of software for which output has been confirmed by Mimaki is provided in [ReadMeFirst]. (📄 ["Please Read Before Using the Plotter Driver" \(P.3\)](#))

Here, the procedure for outputting to the machine using Word is described as an example.

- 1 Launch Word.**
- 2 Insert text or a figure for cutting in Word.**
Set the text or figure as follows to make the cutting line easy to see.
 - Text color: Black (R:0 G:0 B:0)
 - [Shape Fill]: [No Fill]
 - [Shape Outline]: Black (R:0 G:0 B:0)
- 3 Select [File] - [Print] in Word.**
- 4 Select the CG-AR printer name (user specified) in [Printer].**
- 5 Click [Printer Properties].**
 - The [CG-AR printer name (user specified) Properties] window appears.
- 6 Set the cutting settings, then click [OK].**
 - Please refer to 📄 ["CG-AR Series Cutting Settings" \(P.13\)](#).
- 7 Click [Print].**
 - Data is output to the plotter.

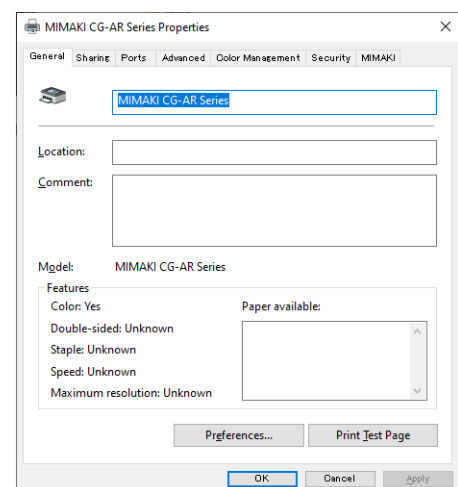
Important!

- The cutting sequence cannot be set in the Windows plotter driver. The cutting sequence is dependent on the application being used. Check by actually outputting the data.
- The size of the data that can be created will vary depending on the application used.

Plotter Driver Setup

Set up the plotter driver to suit your particular usage requirements.

- 1 Click the Windows Start menu, then click [Settings].**
 - The [Windows Settings] window appears.
- 2 Click [Devices].**
 - The [Bluetooth & other devices] window appears.
- 3 Click [Printers & scanners] in the list on the left-hand side.**
 - The [Printers & scanners] window appears.
- 4 Select a CG-AR printer name (user specified).**
- 5 Click [Manage].**
 - The [CG-AR printer name (user specified)] window appears.
- 6 Click [Printer properties].**
 - The [CG-AR printer name (user specified) Properties] window appears.
 - The properties window includes the following tabs. Click the corresponding tab to configure and check individual settings.



Setting tab	Outline
General	Displays the general plotter driver information. Clicking [Preferences] allows [Form setting], [Output setting], and [Etc] to be set. (P.13 onward)
Sharing	Sets printer sharing.
Ports	Sets the output port. (P.17 onward)
Advanced	Sets the advanced driver settings.
Color Management	Manages colors. (There is no need to perform these settings.)
Security	Sets the security settings.
MIMAKI	Displays the plotter driver version information. Clicking the URL displays the official Mimaki website.

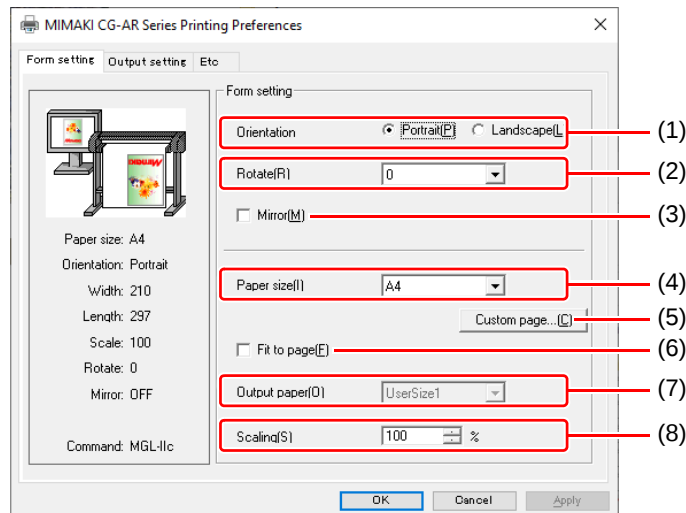
CG-AR Series Cutting Settings

This section describes the various CG-AR plotter driver settings.

Form setting

1 Click [Preferences] on the [General] tab in [Printer properties] in "Outputting Using the Plotter Driver" - Step 6 (P.12).

- The [Form setting] tab in [Printing Preference] is displayed.
- Configure the settings to suit your particular usage requirements.



(1) Orientation

Sets whether the pattern to be cut is laid out vertically or horizontally.

(2) Rotate

Sets whether the media is used vertically or horizontally.

Setting:0, 90, 180, 270 degrees



- With some applications, the orientation displayed in the preview may be opposite to the actual output when horizontal media is rotated.

(3) Mirror

Cuts with left and right reversed.

(4) Paper size

Select the media size loaded in the plotter or the media size recognized by the application from the [Paper size] list.

(5) Custom page

Allows up to four different custom media to be set.

Length 50 to 15,000 mm (the maximum value will vary depending on the machine model)

Width 50 to 1,300 mm (the maximum value will vary depending on the machine model)

The set custom media can be reset to the default values by clicking [Default].

(6) Fit to page

Enlarges or reduces the image for cutting so that it fits on the output media.

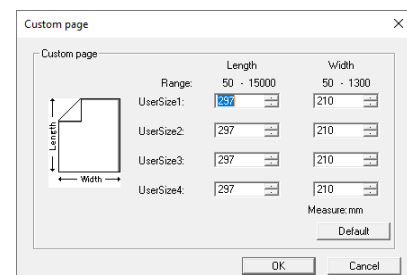
(7) Output paper

Checking [Fit to page] allows [Output paper] to be selected.

(8) Scaling

Unchecking [Fit to page] allows [Scaling] to be selected.

If the image is enlarged beyond the media size, only the parts within the media will be cut.



Output setting

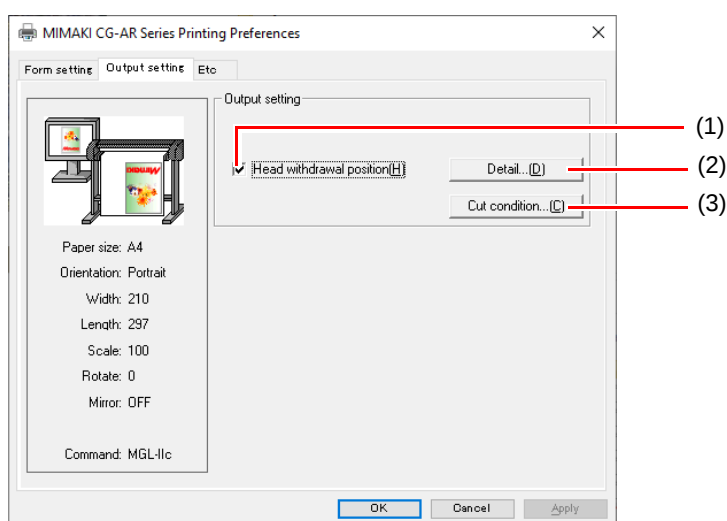
1 Click [Preferences] on the [General] tab in [Printer properties] in "Outputting Using the Plotter Driver" - Step 6 (P.12).



- [The [Cut condition] can be set when the command is MGL-IIC.

2 Click the [Output setting] tab.

- Configure the settings to suit your particular usage requirements.



(1) Head Withdrawal Position

Checking this moves the head back to the specified position after cutting is complete.

(2) Head Withdrawal Position Details

Checking [Head withdrawal position] enables the [Detail] button.

Width..... Sets the head withdrawal position in the head movement direction. It can be set in the range 0 to 100 mm from the "Origin" or the "Maximum cut data".

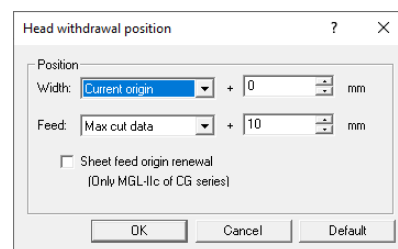
Feed..... Sets the head withdrawal position in the feed direction. It can be set in the range 0 to 100 mm from the "Origin" or the "Maximum cut data".

Sheet feed origin renewal

Checking this sets the position to which the head was returned as the origin. This is available only when using the MGL-IIC command.



- If [Sheet feed origin renewal] is checked, the head movement direction withdrawal position cannot be set.



(3) Cut condition

Edit the tool, speed, pressure, and offset for each color.

The cutting sequence cannot be set here. The cutting sequence is dependent on the application being used. Check by actually outputting the data.

No.	Color	Tool	Speed	Press	Offset
1	255.0.0	CUT1	PANEL	PANEL	PANEL
2	0.255.0	CUT1	PANEL	PANEL	PANEL
3	0.0.255	CUT1	PANEL	PANEL	PANEL
4	0.255.255	CUT1	PANEL	PANEL	PANEL
5	255.0.255	CUT1	PANEL	PANEL	PANEL

- Priority-plotter(except "Tool"):

Enabled..... Cuts using the plotter tool conditions.

Disabled Cuts using the tool conditions listed.



- If [Priority-plotter(except "Tool")] is checked, the listed settings cannot be altered.

- Use No. 1 condition only:

Enabled.....Cuts all colors using the tool conditions set in No. 1 in the list.

DisabledAllows cutting by selecting the tool conditions for each individual color.



- If [Use No. 1 condition only] is checked, the settings for [Undefined color] cannot be altered.

- Color:

If the color for which tool conditions are to be set is not listed, click [Color], and change to the required color. The tool usage sequence cannot be set here.

- TOOL:

Sets the tool used (CUT1 to CUT6, CRE, PEN) with the plotter for the selected color.

- Speed:

Sets the cutting speed (1 - 73 cm/s). Selecting "0" uses the plotter setting.

- Press

Sets the cutting pressure (1 to 550 g). Selecting "0" uses the plotter setting.

- Offset

Sets the cutting offset (0.01 - 2.50 mm). Selecting "0" uses the plotter setting.



- If the values set exceed the permissible setting limits for the plotter used, the corresponding plotter limit values will be used.



Set as follows to output regardless of line color:

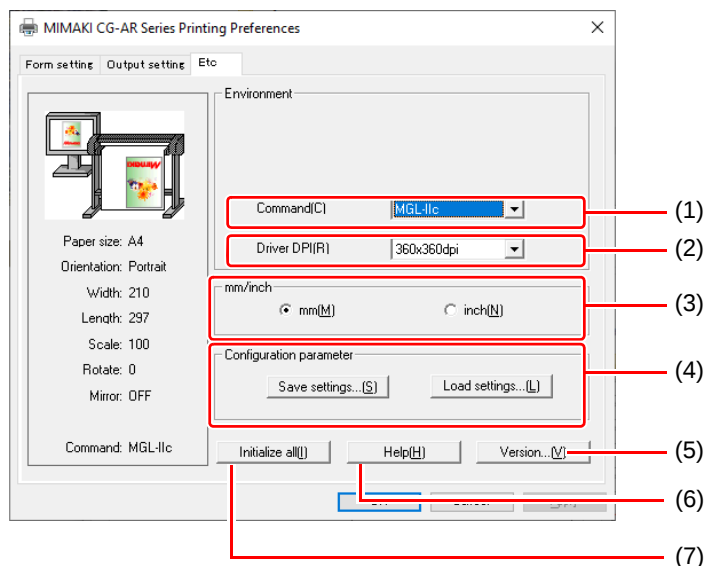
- Priority-plotter (except "Tool"): On
- Use No. 1 condition only: On
- Set No. 1 (255.0.0) Tool to match plotter.
- Set the speed, pressure, and offset at the plotter.

Etc

1 Click [Preferences] on the [General] tab in [Printer properties] in "Outputting Using the Plotter Driver" - Step 6 (P.12).

2 Click the [Etc] tab.

- Configure the settings to suit your particular usage requirements.



(1) Command

Set to the same setting as for [COMMAND] on the plotter itself.

(2) Driver DPI

Sets the driver resolution.



- Select 720 × 720dpi if the cutting quality is coarse or when cutting small characters.

(3) mm/inch

Selects the length units (mm or inches).

(4) Configuration parameter

Save settings.....Saves the specified driver settings.

Load settings.....Loads a saved settings file and changes the driver settings.

(5) Version

Displays the plotter driver version information.

(6) Help

Displays help information.

(7) Initialize all

Initializes all of the settings.



Set the output port

When you connect the PC with the plotter via USB interface cable

1 Install "Mimaki Driver" in your PC.

- Download the "Mimaki Driver" from the official Mimaki website (<https://japan.mimaki.com/download/>), and install it.

2 Connect your PC with plotter with a USB cable and turn on the power.

3 Select the [Ports] tab.

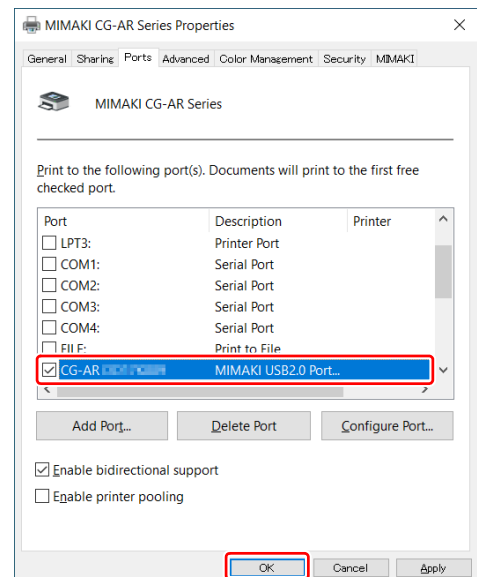
-  "Plotter Driver Setup" Step 6 (P.12)

4 Select the output port, then click [OK].

- When you connect multiple plotters with the PC, select different ports.

Important!

- Ports are created for each plotter. Use the plotter serial number indicated for the port name to identify the ports.



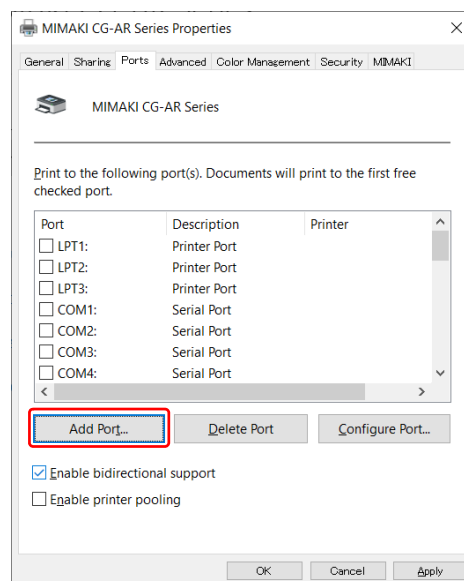
When you connect the PC with the plotter via LAN cable

1 Connect your PC with plotter with a LAN cable and turn on the power.

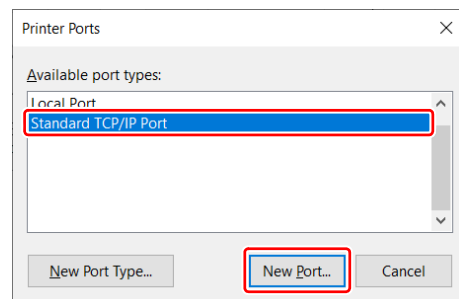
2 Select the [Ports] tab.

- Please refer to  "Plotter Driver Setup" Step 6 (P.12).

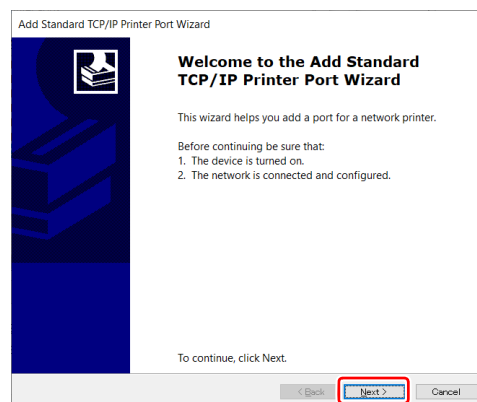
3 Click [Add Port...].



4 Select the "Standard TCP/IP Port" of printer port, and click [New Port...].

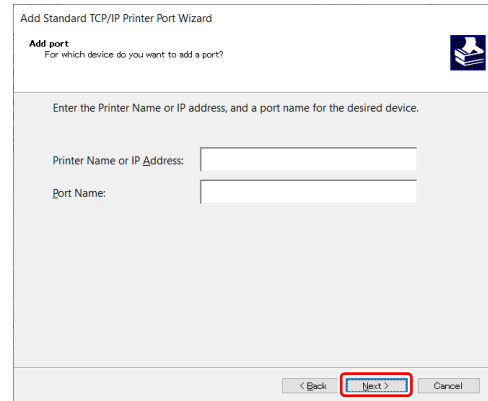


5 Click [Next].



6 Enter the IP address to [Printer Name or IP Address] and click [Next].

- Please refer to the operation manual of the plotter ("Set the network") for IP address.



Add Standard TCP/IP Printer Port Wizard

Add port
For which device do you want to add a port?

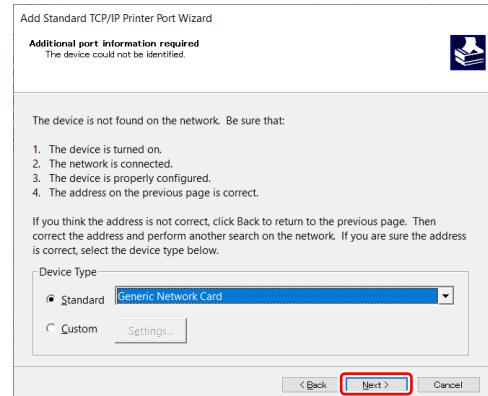
Enter the Printer Name or IP address, and a port name for the desired device.

Printer Name or IP Address:

Port Name:

< Back **Next >** Cancel

7 Click [Next].



Add Standard TCP/IP Printer Port Wizard

Additional port information required
The device could not be identified.

The device is not found on the network. Be sure that:

1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.

If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.

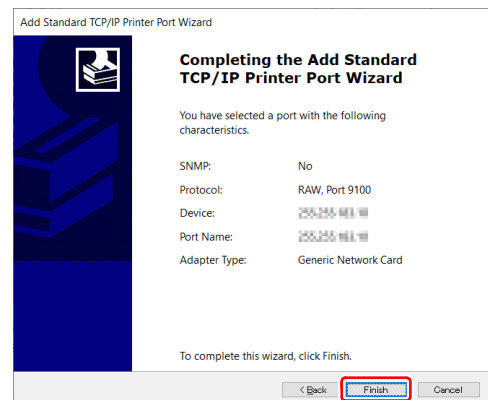
Device Type

☒ Standard Generic Network Card

☐ Custom Settings...

< Back **Next >** Cancel

8 Click [Finish].



Add Standard TCP/IP Printer Port Wizard

Completing the Add Standard TCP/IP Printer Port Wizard

You have selected a port with the following characteristics.

SNMP: No

Protocol: RAW, Port 9100

Device: 255.255.255.255

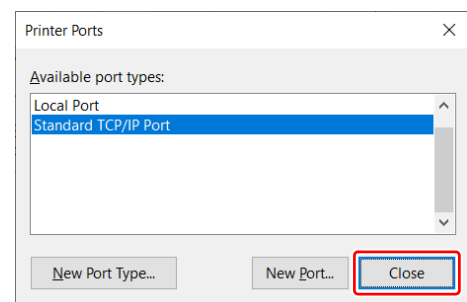
Port Name: 255.255.255.255

Adapter Type: Generic Network Card

To complete this wizard, click Finish.

< Back **Finish** Cancel

9 Click [Close].



Printer Ports

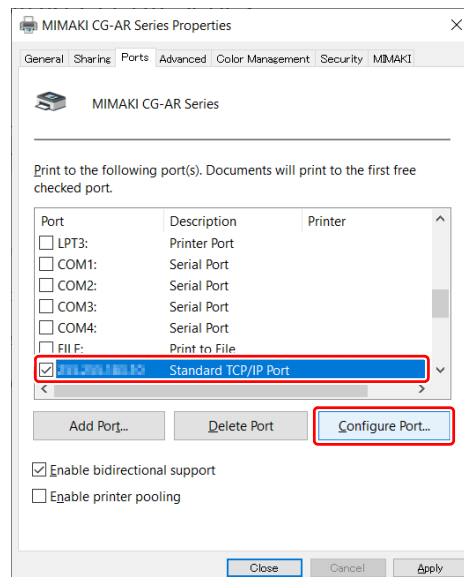
Available port types:

Local Port

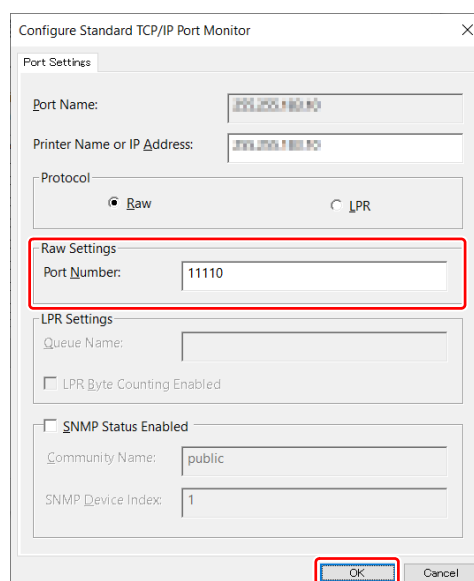
Standard TCP/IP Port

New Port Type... New Port... **Close**

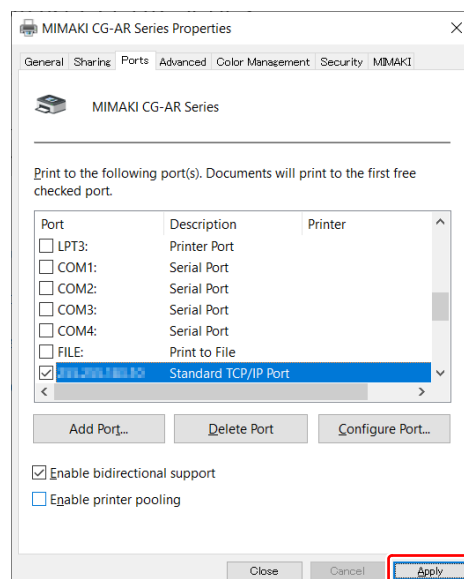
10 Select the created "Standard TCP/IP Port", and click [Configure Port...].



11 Enter "11110" to [Port Number] and then click [OK].



12 Click [Apply].



13 Click [Close].

When you connect the PC with the plotter via RS-232C interface cable

1 Connect the plotter to a PC using an RS-232C interface cable, then turn on the power.

2 Check the serial port number.

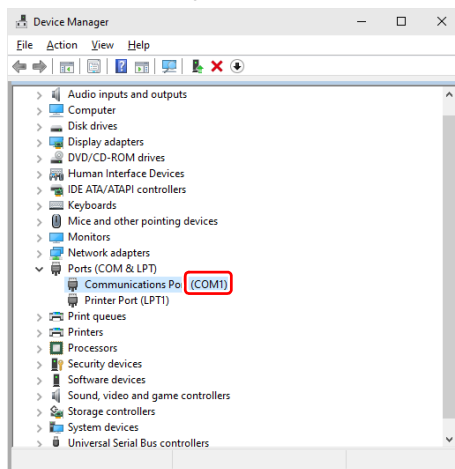
(1) Right-click the Start menu, then select [Device Manager].

- The [Device Manager] window appears.

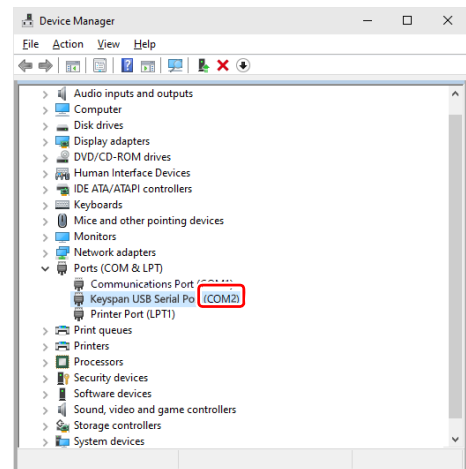
(2) Double-click and open [Ports(COM & LPT)].

(3) Check the COM number of the communication port.

- If an RS-232C interface cable is connected directly to the PC serial port, check the COM number of the communication port.



- If a Keyspan USB serial adapter is used for connection, check the COM number of the Keyspan USB Serial Port.



(4) Double-click the communication port.

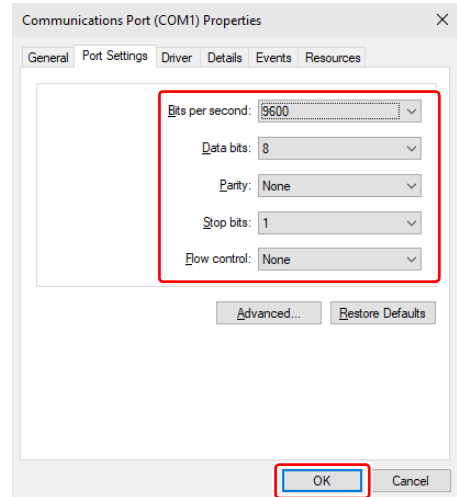
- The [Communications Port Properties] dialog appears.

(5) Check to confirm that the settings on the [Port Settings] tab match those for the plotter.

- If the settings differ, set to match the plotter settings.

(6) Click [OK].

- The [Communications Port Properties] dialog closes.



(7) Click [x] at the top right of the [Device Manager] window.

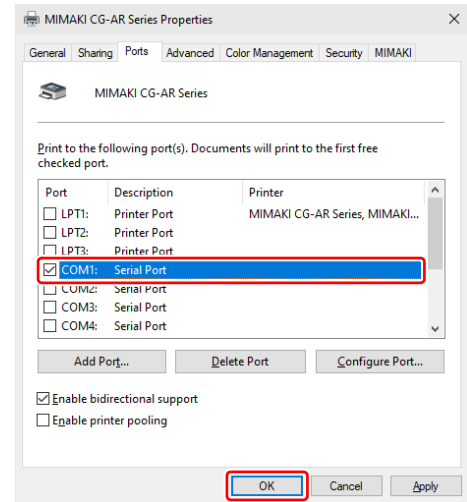
- The [Device Manager] window closes.

3 Select the plotter driver [Ports] tab.

- Please refer to ["Plotter Driver Setup" Step 6 \(P.12\)](#).

4 Select the port number checked in Step2"Check the serial port number."(P.21), then click [OK].

- When you connect multiple plotters with the PC, select different ports.



Troubleshooting

The driver media size cannot be correctly read in by Word.

On the Word [Print] window, reading-in of the media size can fail to occur. The media size will remain blank in such cases.

Take the following action:

1 Click [Printer Properties] on the Word [Print] window.

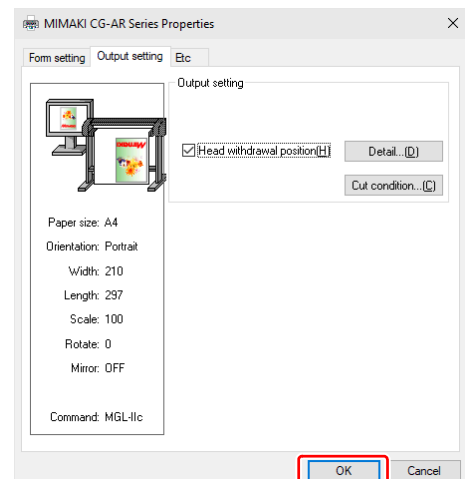
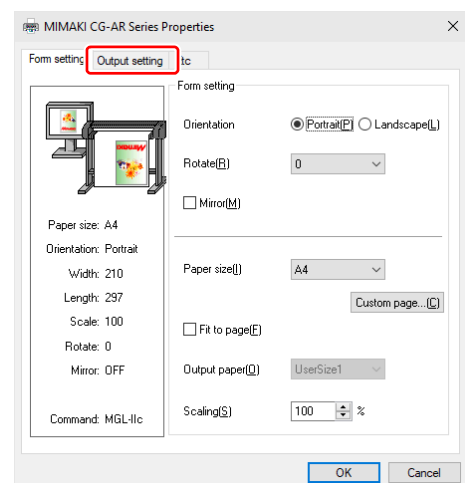
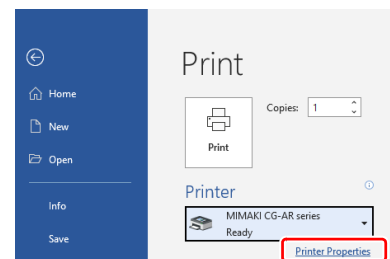
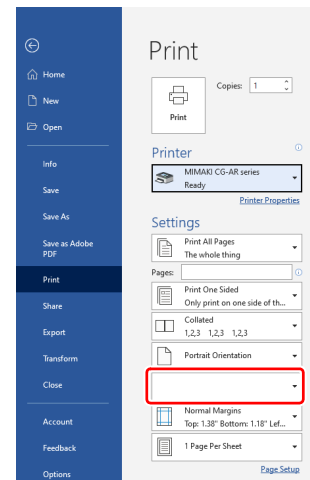
- The [CG-AR printer name (user specified) Properties] dialog appears.

2 Click the [Output setting] tab on the [CG-AR printer name (user specified) Properties] dialog.

- The correct information is re-read from the CG-AR plotter.

3 Click [OK] on the [CG-AR printer name (user specified) Properties] dialog.

- The media size will appear on the Word [Print] window.



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