

Camera application **OBSCURAS Guide**

MIMAKI ENGINEERING CO., LTD.

https://mimaki.com/

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Introduction

OBSCURAS is an application required for using the camera supplied with the CFX Series.

Please read the OBSCURAS Function Guide ("this document" hereinafter) thoroughly and make sure you understand its contents to ensure correct use of the OBSCURAS.

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About This Manual

This document describes the following:

- Installing OBSCURAS
- Using OBSCURAS

Notation used in This Guide

• The buttons and items displayed in screens are enclosed in square brackets, such as [OK] and [Open].

Symbols used

	Details		
(Important!)	Important	The "Important" symbol represents information you must be familiar with when using OBSCURAS.	
	Tip	The "Tip" symbol represents useful information to know.	
(CBF	Reference information	Indicates a reference page with related information. Click the text to display the corresponding page.	
0	Compulsory	The "Compulsory" symbol indicates items that must be performed.	

How to Obtain This Guide and Related Manuals

The latest versions of this guide and related manuals are available at:

• Mimaki official website (https://mimaki.com/download/software.html)

Chapter 1 About OBSCURAS



This chapter This chapter describes OBSCURAS.

Functions and Operating Environment......6

1.1 Functions and Operating Environment

• Functions

OBSCURAS provides the following functions:

- Registration and management of plotters
- Camera settings
- · Imaging settings
- · Manual setting and output of register mark positions (teaching register marks)

Compatible models

OBSCURAS is compatible with the following models.

CFX Series

Operating environment

OBSCURAS is compatible with the following operating environments.

OS	Microsoft [®] Windows 10 [®] (64-bit version)
	Microsoft [®] Windows 11 [®]

Recommended system

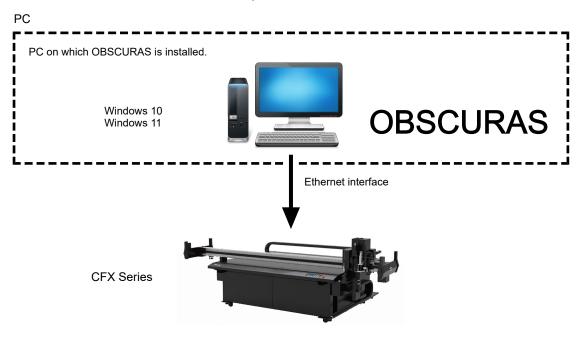
OS	Windows [®] 10 Pro 64-bit	
CPU	Intel® Core™ i5 or later	
Chipset	Intel chipset	
Memory	8 GB or more	
Hard disk	10 GB or more free space	
Interface	Ethernet port	

The Ethernet environment should have at least the following conditions. If the specifications are lower than the conditions below, communication may not be stable.

- PC
 - LAN port must support 1000BASE-T (Gigabit).
 - Must be compatible with jumbo frames (9000 and above).
- Cable:
 - CAT6 or higher.
- Hub (if used):
 - 1000BASE-T (Gigabit) compatible.
 - Must be compatible with jumbo frames (9000 and above).

• System configuration

One PC can be connected to each CFX unit only.



Chapter 1 About OBSCURAS / 1.1 Functions and Operating Environment

Chapter 2 Explanation of Functions



This chapter

This chapter describes how to start up OBSCURAS and its functions.

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2.1 Starting Up

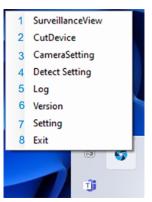
OBSCURAS is displayed on the task bar.



 If the OBSCURAS icon is not displayed on the task bar, click OBSCURAS on the Windows Start menu to launch it. The icon will then appear on the task bar.

1 Right-click the OBSCURAS icon \$\$\$ on the task bar.

• The OBSCURAS menu appears.



	,	
1	SurveillanceView	Checks the plotter communication status and indicates whether or not register mark detection is possible. "SurveillanceView"(P. 11)
2	Cut Device	Displays the [Cutting Device Manager] dialog box. This function is used by Mimaki service engineers. (27 "Cut Device"(P. 36)
3	CameraSetting	Displays the [CameraSetting] dialog box. This function is used by Mimaki service engineers.
4	Detect Setting	Displays the [Detect Setting] dialog box. Function for adjusting the imaging conditions and image processing conditions for work for which register mark and edge detection are problematic. (The "Detect Setting"(P. 13)
5	Log	Displays the [Log] dialog box. This function is used by Mimaki service engineers.
6	Version	Displays [Version]. 🕾 "Version"(P. 25)
7	Setting	Displays the [Setting] dialog box. The "Application Setting" (P. 26)
8	Exit	Exit OBSCURAS.

2.2 Explanation of Functions

SurveillanceView

Indicates the communication status between the machine and OBSCURAS. This allows the user to confirm whether register mark detection is possible.

Communication status display procedure

1 Right-click the OBSCURAS icon on the task bar, then select [SurveillanceView].

• The [Surveillance] dialog box appears.

Surveillance	>
Communication OK, registration	marks can be detected

Communication status display types and corresponding action

🚱 Surveillance		;	×
No device connected	1		
Check the LAN connection with the plotter.	2		
		Close	

1. Status display	2. Action display	Action
Cut device registration not implemented	Please register the cutting device.	Register the connected plotter as a cutting device.
No device connected	Check the LAN connection with the plotter.	 Check the connection. Check the PC LAN connection with the plotter. Check that a registered cutting device is
Camera not connected	Please check the connection with the camera.	 2. If there is no problem with the connection Restart the PC. Restart the plotter. Wait until the plotter is reconnected. (Approx. 5 minutes) 3. If the display remains the same, contact Mimaki service engineers.
Communication NG Registration mark cannot be detected	Unable to receive commands from plotter. Reconnecting	Wait until the plotter is reconnected. If the plotter does not reconnect even after waiting approximately 5 minutes, contact your PC security administrator to check whether the port number set in the [Setting] dialog is being blocked. The plication Setting"(P. 26)

Chapter 2 Explanation of Functions / 2.2 Explanation of Functions

1. Status display	2. Action display	Action
Communication OK, calibration not performed	Please perform calibration.	Contact Mimaki service engineers.
Communication OK, registration marks can be detected		Communication is normal. Register marks can be detected.



If the connection frequently switches between NG and OK, there may be a communication speed problem. In this case, please check the following. • Ehernet environment specifications. Trunctions and Operating Environment"(P. 6) • Jumbo packet settings (Please check the procedure for jumbo packet settings.)

Detect Setting

If register mark detection fails due to the effects of the work color or reflection, the image processing used for register mark detection will require adjustment.

The [Detect Setting] dialog box enables register mark detection by altering the imaging settings and image processing settings.

Image Adjustment Procedure

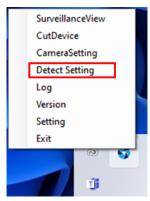
Adjust using [Detect Setting] after setting the plotter to [RegisterMarkCameraAdjustment].

• Set plotter to [RegisterMarkCameraAdjustment]

- **1** Connect the plotter to the PC using a LAN cable, then turn on the power to the plotter.
- Once the plotter is set to local mode, load the work with register marks into the plotter.
 - Load the work for which you wish to adjust detection.
- **3** Set the work thickness.
- **A** From the Jog function selection menu, select [RegisterMarkDetectionCameraAdjustment].
- 5 Align the light pointer with the register mark on the work, then press the [ENTER] key.
 - The camera LED lights up, and the plotter stops.

• Adjust using [Detect Setting].

- 1 Right-click the OBSCURAS icon 5 on the task bar, then select [Detect Setting].
 - Displays the [Detect Setting] dialog box.



2 Select the type of register mark captured in [Detection Mode].

🌍 Simple Adjustm	ient			×
Start		Reset		
		~	Save Condition	Delete Condition
		Automatic	ically adjust the detec	Kan mana
	Detection Mode	Square	ically adjust the detec	v
	Processing Mode	Automatic j	udgment of colors are	and register mark $$
	Color	Red		~
Detection Range				(0)
Brightness				
			•	(0)
Contrast	•			(1.00)

3 Click the [Start] button.

🌍 Simple Adjustm	ient				×
Start		Reset			
		~	Save Condition	Delete Condition	
		🕗 Automati	cally adjust the detect	ion range	
	Detection Mode	Square		~	-
	Processing Mode	Automatic ju	idgment of colors arou	ind register mark 🚿	/
	Color	Red		· · · · · · · · · · · · · · · · · · ·	/
Detection Range			_	(0)	
Brightness	_			(0)	
Contrast	•			(1.00)	





5 Adjust the settings below while checking the image captured until the register mark is correctly enclosed within the red frame. ⁽²⁾ "[Detect Setting] Screen Layout"(P. 18)

- [Detection Range]
- [Brightness]
- [Contrast]

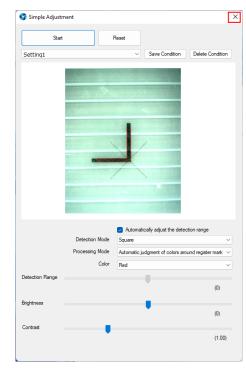
Start		Reset		
New		~	Save Condition	Delete Condition
	1			
			/	
	NAMES OF A DESCRIPTION OF			
	and the second se			
	Detection Mode	_	tically adjust the de	lection range
	Detection Mode Processing Mode	Square		`
		Square		tection range
Detection Range	Processing Mode	Square Automatic		`
Detection Range	Processing Mode	Square Automatic		`
-	Processing Mode	Square Automatic		around register mark
Detection Range Brightness	Processing Mode	Square Automatic		around register mark

 If the register mark is not detected properly even after adjusting the settings, set [Processing Mode] to suit the work being printed, and readjust. I [Detect Setting] Screen Layout"(P. 18) **6** Once the setting changes are complete, click the [Save Conditions] button.

Start		Reset		
New		~	Save Condition	Delete Condition
			T.	
			S	
		-		
			1	
	Detection Mode	_	tically adjust the detect	tion range
	Detection Mode Processing Mode	Square	tically adjust the detec	`
		Square		`
Detection Range	Processing Mode	Square Automatic j		`
Detection Range	Processing Mode	Square Automatic j		`
Detection Range	Processing Mode	Square Automatic j		und register mark
-	Processing Mode	Square Automatic j		und register mark

7 Enter the name for saving, then click the [Save] button.

😚 Save Condition File	×
Enter a file name.	
Setteing1	
Save	Cancel



8 Click [×] to close the dialog box.

Q Press the plotter [END] key to exit [RegisterMarkDetectionCameraAdjustment] mode.

• To detect register marks by loading saved conditions

- **1** Launch the [Detect Setting] dialog box.
- **2** Select the name of the conditions to be used for detection in [Condition Name].
 - Selecting [Default] detects without any adjustments.

Start	F	Reset			
Default		~	Save Condition	Delete Conditio	n
		-	ically adjust the detec	tion range	
	Detection Mode Processing Mode	Square	udgment of colors are		~
	Color	Red	udgment of colors arol	und register mark	č
Detection Range					
				(0)	
Brightness				(7)	
				(0)	
Contrast	_				

3 Click [×] to close the dialog box.

Start		Reset		
Setting1		~	Save Condition	Delete Condition
		Y		
		Automat	ically adjust the detec	tion range
	Detection Mode	Square		~
	Processing Mode	Automatic j	udgment of colors aro	and register mark $\!$
	Color	Red		~
Detection Range				(0)
-				
Brightness			•	(0)

4 Detect the registration marks using the plotter.

[Detect Setting] Screen Layout

				14
Start	1	Reset 2		
New	3	~	Save Condition 4	Delete Condition
	6	ł		
	7	Automati	ically adjust the detecti	ion range
	8 Detection Mode	Square		~
	9 Processing Mode	Automatic ju	udgment of colors arou	nd register mark $$
	10 Color	Red		~
Detection Range 1	1			
			Ť	(0)
Brightness 12				
				(0)
Contrast 13				(1.00)

	1	
1	Start/Stop	Captures an image. Or stops imaging.
2	Reset	Resets the conditions to their default values. (27 "Default values"(P. 19)
3	Condition Name	Selects a set of conditions. To create a new set of conditions, select [New].
4	Save Conditions	 Saves the conditions set. The conditions saved are [Processing Mode], [Automatically adjust the detection range], [Detection Range], [Brightness], and [Contrast]. When [New] is selected for the condition name, the [Save Conditions File] dialog box appears. I Save Conditions File"(P. 19) When an existing condition name is selected, the [Save Conditions File Confirmation] dialog box appears. I Conditions file save confirmation"(P. 20)
5	Delete Conditions	 Deletes the conditions selected in [Condition Name]. Conditions are not deleted if [New] or [Default] is selected for the condition name. When an existing condition name is selected, the [Delete Confirmation] dialog box appears. Click [OK].
6	Captured image display area	 Clicking [Start] captures an image and displays it in the captured image display area. The image is refreshed at the preset interval. If a register mark is detected in the image, the outline is highlighted with a solid line.
7	Automatically adjust the detection range	 Select the check box to adjust the detection range automatically. When the check box is selected, the detection range is adjusted automatically. When the check box is unselected, the register marks are detected using the setting for [Detection Range].
8	Detection Mode	Selects the type of register mark to be detected. (Register mark types"(P. 21)

9	Processing Mode	 Auto detect color around mark: Automatically detects register marks using RGB/HSV processing. Color around mark is white: Detects register marks using RGB processing. Color around mark is non-white: Detects register marks after processing using hue in HSV format.
10	Color	Selects the detection range indication color. Select a color that is easily visible compared to the work color.Display colors: Red, Blue, Yellow
11	Detection Range	Adjusts the detection range when [Automatically adjust the detection range] is disabled.Increasing the setting increases the range for identifying as a register mark.Range: 0 to 255
12	Brightness	Adjusts the brightness. Increasing the setting increases the image brightness before detecting register marks. • Range: 0 to 255
13	Contrast	Adjusts the contrast. Increasing the setting increases the image contrast before detecting register marks. • Range: -1.00 to 3.00
14	×	 Closes the [Detect Setting] dialog box. After closing, register marks are detected using the conditions currently set in [Condition Name]. When [Default] is selected No settings are adjusted for detection. When [New] is selected The last conditions selected are automatically selected for detection. When registered conditions are selected The saved conditions are used for detection.

• Default values

Processing Mode	Auto detect color around mark
Automatically adjust the detection range	On
Detection Range	128
Brightness	1
Contrast	0

• Save Conditions File



1	Conditions file name	Enter the conditions file name.
2	Save	Saves the conditions file.
3	Cancel	Cancels the process.
4	×	Closes the [Save Conditions File] dialog box.

• Conditions file save confirmation

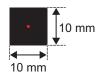
Save Condition File		4 ×
Overwritten by Setting1. Is	s it OK?	
Overwritten 1	Create New File 2	Cancel 3

1	Save	Saves the conditions file with the same name.
2	Save	The [Save Conditions File] dialog box appears. 🐨 "Save Conditions File"(P. 19)
3	Cancel	Cancels the process.
4	×	Closes the [Save Conditions File Confirmation] dialog box.

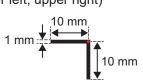
Register mark types

The red dot indicates the register mark origin.

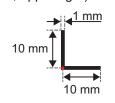
Square



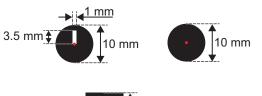
Type 1 – (lower left, lower right, upper left, upper right)



• Type 2 J(lower left, lower right, upper left, upper right)



• Round (free) Left: With mark, Right: Without mark



Mark tip



• Edge

Edges include the four corners of the work, vertical edges (X direction), and horizontal edges (Y direction). The following can be selected:

- Edge detection (lower left)
- Edge detection (lower right)
- Edge detection (upper left)
- Edge detection (upper right)
- Edge detection (X direction)
- Edge detection (Y direction)

Teaching Register Marks

This function detects register marks by setting the register mark detection position manually.

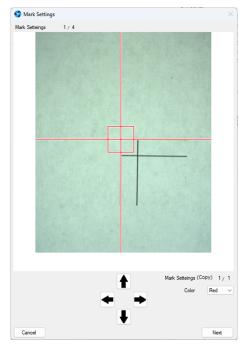
It allows register marks created using non-Mimaki software or rectangular register marks arranged around data to be detected as register marks.

It can also be used when automatic detection is problematic due to the media or printing color.

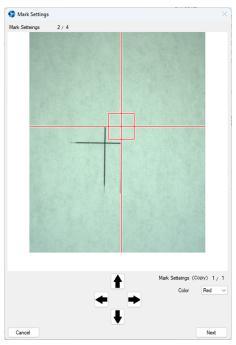
(Important!) • FineCut9 Ver3.0 or later is required.

Teaching register mark reading method

- 1 Create and print out teaching register mark data using FineCut. (For information on FineCut, refer to the Reference Guide.)
- 2 Load the printed work on the CFX main unit, then use [Mark Origin Detection] (Type 6 teaching) on the CFX LED panel. (For more information, refer to the CFX main unit operation manual.)
- **3** Output the teaching register mark data using FineCut. (For information on FineCut, refer to the Reference Guide.)
 - The Register Mark Setting window automatically opens on the PC on which OBSCURAS is running.

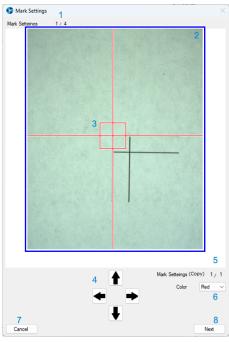


4 Click the points specified in FineCut to set them.



• Repeat Step 4 until all of the detection positions (up to four positions) have been set. Cutting starts once all of the settings are complete.

Teaching register mark screen layout



Register Mark Setting	Displays the number of the register mark currently being set. (Currently being detected/Total number detected)
Captured image display area	The image is continuously scanned and displayed while teaching register marks are being detected.
Cursor	Follows the mouse movement. Hover over the position to be set as a register mark, then click the mouse. The cursor will stay in the center of the scanned image area if the mouse is moved outside the area.
Camera move buttons	Click to move the camera. These can be used to move the camera to find register marks if no marks are visible within the scanned image area. They correspond to the cursor keys on the keyboard. They cannot be held down.
Mark Settings (Copy)	Indicates the number of the data currently detected if register marks have been copied. (Copies currently detected/Total number of copies)
Color	Selects the cursor color. Select a color that is easily visible compared to the work color. (Display colors: Red, Blue, Yellow)
Cancel	Stops register mark detection. If copying is in progress, subsequent copy output is also stopped. Clicking the button displays a confirmation window. Yes: Stops register mark detection and closes the Register Mark Setting dialog box. No: Continues register mark detection.
Next	Sets the current cursor position (center of scanned image) as a register mark. The operation is the same as clicking on the scanned image display area. This is used for multiple register mark detection when the detection position is not offset from the center of the scanned image.
	Setting Captured image display area Cursor Camera move buttons Mark Settings (Copy) Color Cancel

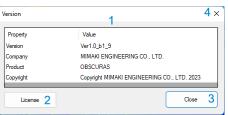
Version

The [Version] dialog box is used for searching, registering, and managing cutting devices.

Right-click the OBSCURAS icon on the task bar, then select [Version].

• The [Version] dialog box appears.

2 Check the details in the [Version] dialog box.



1	Version display area	Display the various information details.
2	License	 Displays the [License] dialog box. Used for checking the license. Click [Close] or [×] at the top right to close the [License] dialog box.
3	Close	Closes the [Version] dialog box.
4	×	Closes the [Version] dialog box.

Application Setting

The [Setting] dialog box is used for setting Port and Log Retention Period.

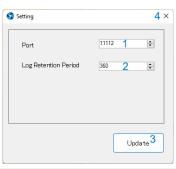


• If the connection between OBSCURAS and the plotter is frequently disconnected, contact the PC security administrator to check if the port number set on this dialog is being blocked.

1 Right-click the OBSCURAS icon on the task bar, then select [Setting].

• Displays the [Setting] dialog box.

2 Sets and updates [Port] and Log [Retention Period] setting.



1	Port	Sets the port number on which OBSCURAS will receive commands.
2	Log Retention Period	Sets the period of time that logs will be saved.
3	Close	Updates [Port] and Log [Retention Period] setting.
4	×	Click [Setting] to close the dialog box. The changes will be saved.

Chapter 3 Other Functions



This chapter This chapter describes other functions.

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Uninstallation......40

3.1 Installation

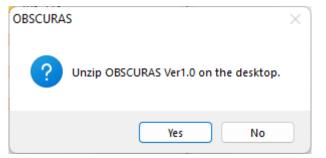
(Important!)

· Install as a user with Administrator authority.

1 Download the installer for this tool from the OBSCURAS download page on the Mimaki official website (https://mimaki.com/download/software.html).

∠ The installer can be obtained as follows if the PC is not connected to the Internet.

- If you have a PC connected to the Internet, download the installer on that PC, then copy it to the PC on which OBSCURAS is to be installed.
- **2** The downloaded file to run it. (OBSCURAS_v * * * .exe)
 - The **** indicates the version.
- 3 "Unzip OBSCURAS Ver** on the desktop"(OBSCURASをデスクトップに展開します.) Click [Yes].

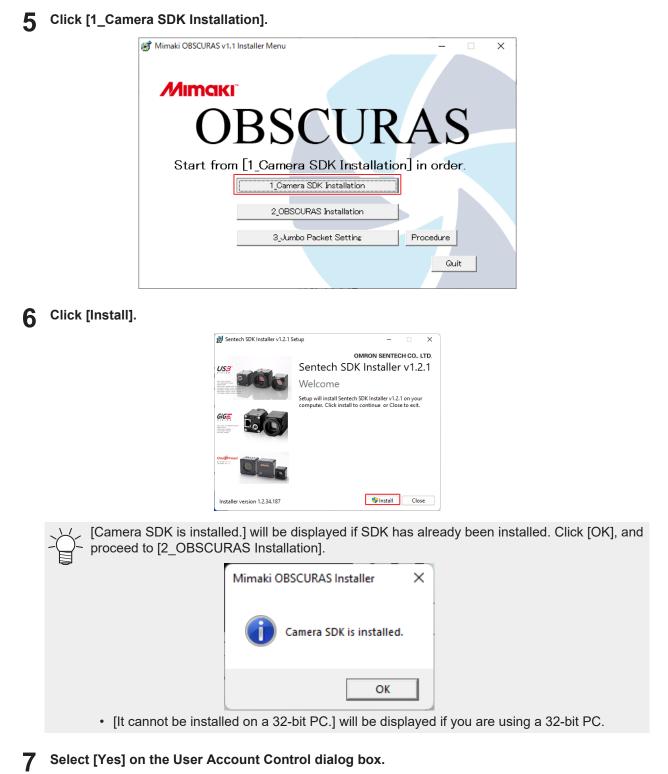


• The OBSCURAS installer is automatically unpacked onto the desktop.

Decompressing		×
\geq	ß	
Please wait Installer\setup.exe		Cancel

A Selects a set of conditions.

💣 Mimaki OBSCURAS v1.1 Installer	-	×
Installer Lang	uage	
English		
Japanese	1	

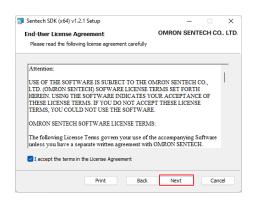


• The Camera SDK setup wizard launches.

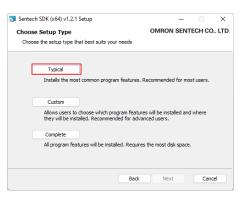
8 Click [Next].



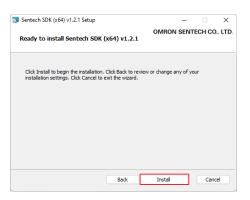
- **9** Select the [I accept the terms in the License Agreement] check box.
 - · Click [Next].



10 Click [Typical].



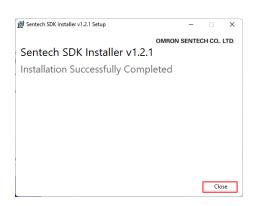
1 Click [Install].



12 Click [Finish].

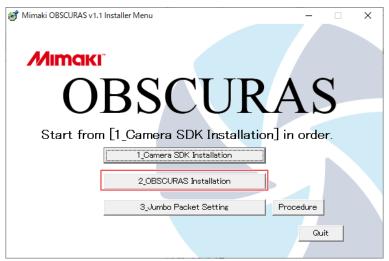


13 Click [Close].



14 Click [2_OBSCURAS Installation].

• The OBSCURAS installer starts up.

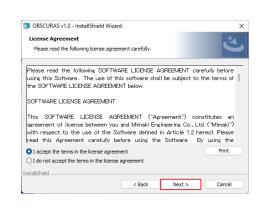


15 Click [Next].



16 Select [I accept the terms of the license agreement].

• Click [Next].

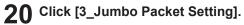


17 Click [Install].

🔋 OBSCURAS v1.0 - InstallShield Wizar	d		;
Ready to Install the Program			4
The wizard is ready to begin installation	n.		C
Click Install to begin the installation.			
If you want to review or change any o exit the wizard.	f your installatio	n settings, click Back	Click Cancel to
stallShield			

- **18** Select [Yes] on the User Account Control dialog box.
- **19** Click the [Finish] button.





🥳 Mimaki OBSCURAS v1.	1 Installer Menu	×
	BSCUR	
Start fror	DSC UN n [1_Camera SDK Installation	
	2 OBSCURAS Installation	
	3_Jumbo Packet Setting	Procedure
		Quit

21 Unplug all of the LAN cables connected to the PC, then click [OK].



[Camera SDK is not installed.] will be displayed if camera SDK has not been installed properly. Repeat the procedure from [1_Camera SDK Installation].



- 22 Select [Yes] on the User Account Control dialog box.
 - StNICConfig starts up.

23 Click [NIC Configuration].

StNICConfig	×
Uninstall driver	
Uninstall StGigE driver.	
NIC Configuration	
Network interface card setting.	

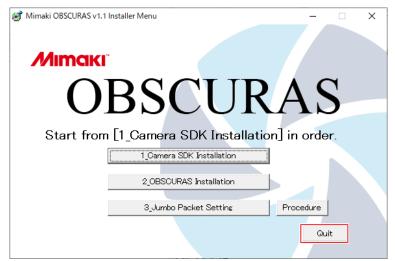
24 Set the following settings.

NIC Configuration			×
File			
Network interface card	Intel(R) E	Ethernet Connection (7) I219-V	\sim
StGigE Driver			
	off for using	for reducing the CPU usage of transfering the g SocketAPI to handle the image packets. This	
Jumbo Packet		Initial[1514]	
Set up the maximum pa performance.	cket size wh	en streaming. Larger packet size increases the	
Receive Buffers		Initial[256]	
Specifies the number of reception buffer from re		ed when receiving. A large value prevents the inder heavy load.	
Transmit Buffers		Initial[512]	_
Specifies the number of transmission buffer from		ed when sending. A large value prevents the ut under heavy load.	
Interrupt Moderation		Initial[1]	
Interrupt Moderation Rate		Initial[65535] V	
load. When enabled, in they are less responsiv to set the interrupt free (manufacturer-depende	terrupts are e. Dependin quency when ent name) su	ncy and responsiveness, but increases CPU less frequent and CPU load is reduced, but ig on the network card used, you may be able n it is enabled with a parameter uch as InterruptModerationRate. You may be changing settings depending on usage and	
Internet protocol v4 propert	У	Show	
NIC property		Show	
Firewall		Show	
		ОК	

- In [Network interface card], set the network card used for the connection to the plotter.
- Change [Jumbo Packet] to [9014Bytes[9014]].
- · Change [Receive Buffers] to [Maximum[2048]].
- · Change [Transmit Buffers] to [Maximum[2048]].

Jumbo packet settings may not be changed.
Image: "Jumbo packet settings may not be changed"(P. 46)

- 25 Click the [OK] button.
- 26 Click the [×] button to close StNICConfig.
- **27** Click [Quit] to exit the installer.
 - Installation is now complete.

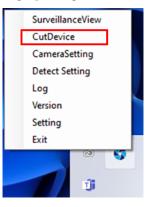


3.2 Cut Device

The [CuttingDeviceManager] dialog box is used for searching, registering, and managing cutting devices.

Cutting Device Registration

- Connect the plotter to the PC using a LAN cable, then turn on the power to the plotter.
- P Right-click the OBSCURAS icon So on the task bar, then select [CutDevice].
 - Displays the [Cutting Device Manager] dialog box.





 If the OBSCURAS icon is not displayed on the task bar, click OBSCURAS on the Windows Start menu to launch it. The icon will then appear on the task bar.

3 Check to confirm that the cutting device currently connected is listed in [Connectable Devices].

lo. Input l	Jame Mo		Port	Device N		IP Address	Camera ID	_
o. npuri	vane no		roit	Device	lame	IF Address	Camera ID	
Delete onnectable (Devices							
Model	Output	Device Name	IP Addr	ess	Camera	ID		
CFXseries	50002	CFXseries 0	169.25	1.116.9	D4:7C:	44:30:D4:1F		
° address de	signation						Update	
lame								



• If the device currently connected is not listed, click the [Update] button to reload [Connectable Devices].

A Select the cutting device to be registered from the [Connectable Devices] list.

5 Enter a registration name as desired in the [Input Name], then click the [Add] button.

lo.	Input Name	Mod	el	Port	Device N	ame	IP Address	Camera ID	
D	elete								
ionnec Mode	table Device	s Output	Device Name	IP Addre		Camera I	D		
CFXs		50002	CFXseries 0				:30:D4:1F		
° addn	ess designatio	on							
								Update	
lame CFX-25	513								
11/1/20	/15								



• Only one device can be registered. Multiple devices cannot be registered.

6 After registering, click the [Close] button to close the [Cutting Device Manager] dialog box.

No. Inp	ut Name	Model	Port	Device Name	IP Address	Camera ID	
Delet	e le Devices						
Model	le Devices Outp	ut Device 1	Inna ID A	ddress Can	era ID		
CFXserie			s 0 169.		7C:44:30:D4:1F		
IP address	designation					Update	
Name CFX-2513							_
CI 742013							_

[Cutting Device Manager] Screen Layout

Cut	tting Device	Manager							<mark>9</mark> ×
No.	Input Name	e Mod	lel I	Port	Device N	ame	IP Address	Camera ID	
_					1				_
Conn	Delete 2	ces							
Mo CE	del Xseries	Output 50002	Device Name CEXseries 0	IP Addn 169.254		Camera I D4:7C:44	D 1:30:D4:1F		
3									
IP ad	ldress designa 4	ation						Update 5	5
Name	•				6				
	Add 7							Close	8

1	Cutting device display area	Displays information about registered cutting devices. (AP "Items displayed in the cutting device display area"(P. 39)
2	Delete	Deletes registered cutting devices.
3	Connectable Devices display area	Lists the connectable cutting devices. (27) "Items displayed in the available device display area"(P. 39)
4	IP Address destination	Used to enter the cutting device IP address.
5	Update	 Uses the entered [IP address] to search for available cutting devices and lists them in the available device display area. If the [IP address] is not entered, all available cutting devices will be listed.
6	Name	Enters a name for the cutting device to be registered.
7	Add	Adds a cutting device.The cutting device added is listed in the available device display area.
8	Close	Closes the [Cutting Device Manager] dialog box.
9	×	Closes the [Cutting Device Manager] dialog box.

No.	Registration number
Name	Name entered at time of registration
Model	Model name of registered cutting device
Port	Output port for registered cutting device
Device Name	Name of registered cutting device
IP Address	IP address of registered cutting device
Camera ID	ID of camera connected to registered cutting device

• Items displayed in the cutting device display area

• Items displayed in the available device display area

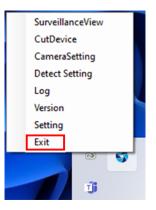
Model	Model name of available cutting device
Port	Output port for available cutting device
Device Name	Name of available cutting device
IP Address	IP address of available cutting device
Camera ID	ID of camera connected to available cutting device

3.3 Uninstallation



• Uninstallation can be performed only by users with Administrator authority.

Right-click the OBSCURAS icon on the task bar, then select [Exit].



- OBSCURAS ends.
- **2** From the Windows [Start] menu, click [Settings].
- **3** Click [Apps] > [Apps & features].
- From the list in [Apps & features], select [OBSCURAS], then click [Uninstall].
- 5 Click [Uninstall].
 - Uninstallation starts.

6 Click [Finish].

• OBSCURAS uninstallation is now complete.



The following procedure should be performed after OBSCURAS uninstallation.

- 7 From the Windows [Start] menu, click [Settings].
- **R** Click [Apps] > [Apps & features].

9 From the list in [Apps & features], select [Sentech SDK Installer v***], then click [Uninstall].

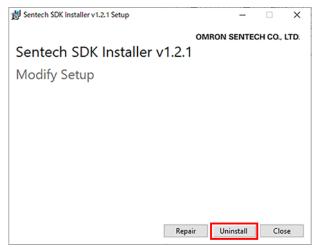


 Please note that a similar item called [Sentech SDK v***] is available, so be sure not to confuse them.

1 O Select [Yes] on the User Account Control dialog box.

1 Click [Uninstall].

• Uninstallation starts.



12 Click [Close].

• Uninstallation is now complete.



Chapter 4 Troubleshooting



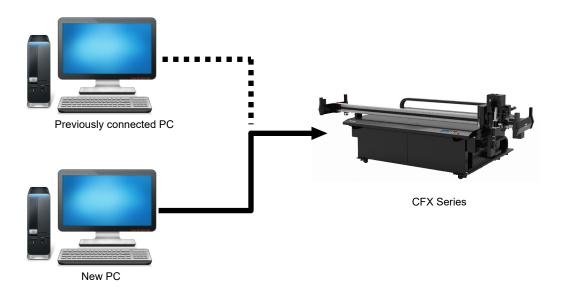
This chapter

This chapter describes corrective actions for troubleshooting and connecting a new PC.

When Connecting a New PC......44Troubleshooting......49Jumbo packet settings may not be changed ...46

4.1 When Connecting a New PC

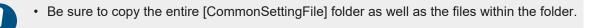
When connecting a new PC to the plotter, connect as follows.



Install OBSCURAS on the new PC. (Ref "Installation"(P. 28)

Copy the following folder from the previously connected PC.

C:\ProgramData\MIMAKI_OBSCURAS\CommonSettingFile



3 Paste the copied folder into the following folder on the new PC.

- C:\ProgramData\MIMAKI_OBSCURAS
- **A** Start up OBSCURAS on the new PC.
 - The "Windows Security Alert" window appears when OBSCURAS is launched. Select all of the check boxes, then click "Allow access".

I Windows Sec	urity Alert		×
Windo app	ows Defenc	ler Firewall has blocked some features of this	
Windows Defender domain networks.	Firewall has bl	ocked some features of OBSCURAS on all public, private and	
	Name:	OBSCURAS	
	Publisher:	MIMAKI ENGINEERING CO., LTD.	
	Pat <u>h</u> :	C:¥program files¥mimaki engineering co. Itd¥obscuras ¥obscuras.exe	
Allow OBSCURAS to	o communicate	on these networks:	
Domain netv	vorks, such as a	a workplace network	
Private netw	vorks, such as r	ny home or work network	
		ose in airports and coffee shops (not recommended ten have little or no security)	
What are the risks	of allowing an a	app through a firewall?	
		Allow access Cancel	

5 Use [Cut Device Manager] to register the plotter currently connected. ^(C) "Cutting Device Registration"(P. 36)



• When two or more PCs with the OBSCURAS installed are simultaneously connected to one CFX, it may not be possible to transmit data properly. Please uninstall or exit the OBSCURAS on one of the two PCs beforehand.

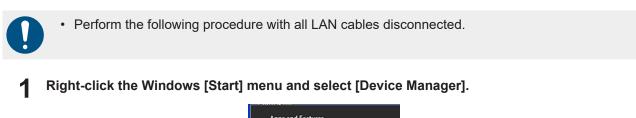
4.2 Jumbo packet settings may not be changed

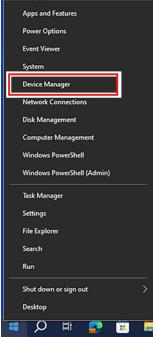
During the installation procedure, you may not be able to change the jumbo packet settings.

- It is not possible to change the value
- Jumbo packets cannot be entered.

NIC Configuration File			×
Network interface card	Intel(R) E	thernet Connection (7) I219-V	~
StGigE Driver			
Switch this on to use	nis off for using	for reducing the CPU usage of transferi g SocketAPI to handle the image packet	ng the ts. This
Jumbo Packet		Initial[1514]	~
Set up the maximum performance.	packet size wh	en streaming. Larger packet size increa	ises the
Receive Buffers		Initial[256]	~
Specifies the number reception buffer from		ed when receiving. A large value prever Inder heavy load.	its the
Transmit Buffers		Initial[512]	~
Specifies the number transmission buffer fi		ed when sending. A large value prevent It under heavy load.	is the
Interrupt Moderation		Initial[1]	~
Interrupt Moderation Rate	:	Initial[65535]	~
load. When enabled, they are less respons to set the interrupt fi (manufacturer-deper	interrupts are sive. Dependin equency wher ident name) su	ncy and responsiveness, but increases less frequent and CPU load is reduced, g on the network card used, you may b n it is enabled with a parameter uch as InterruptModerationRate. You m changing settings depending on usage	, but be able hay be
Internet protocol v4 prope	erty	Show	
NIC property		Show	
Firewall		Show	
		C	ОК

In this case, configure jumbo packets using the following procedure.

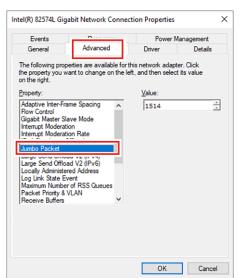




2 Expand [Network adapters], right-click the network card whose settings you want to change and select [Properties].

📩 Device Manager	-	×
File Action View Help		
♦ ⇒ □ □ □ □ □ □ □ ↓ × ●		
Image: Constraint of the state of the st		
WAN Minipott (SSTP)		
> 🛱 Print queues		
> Processors > By Security devices		
> gr security devices		
> P Software components		
Colourse devices		~

3 Click [Advanced Settings] and select [Jumbo Packet] from the property list.



L Enter "9014" in [Value] and click [OK].

Events	Resources	Power	Management
General	Advanced	Driver	Details
	rties are available fo nt to change on the		
Adaptive Inter-Fran Row Control Gigabit Master Slav Interrupt Moderatio IPv4 Checksum Of Jumbo Packet Large Send Offloas Large Send Offloas Locally Administere Log Link State Eve Maximum Number Packet Priority & V. Receive Buffers	ve Mode n n Rate fload 1 V2 (IPv4) 1 V2 (IPv6) d Address ent of RSS Queues	9014	

5 Restart the PC.

• The display and procedures may differ depending on the LAN port manufacturer you are using. For details, please refer to the instruction manual of your LAN port manufacturer.

4.3 Troubleshooting

Describes corrective actions for troubleshooting.

Phenomenon	Measures		
An error occurs in detection.	Check the error number displayed on the plotter with the plotter manual of procedures and take related action.		
An error occurs in register mark detection.	Check the communication status display. "SurveillanceView"(P. 11) The Ethernet environment should have at least the following conditions. "Functions and Operating Environment"(P. 6)		
A register mark detection error may occur only on specific work.	Changes the imaging settings and image processing settings in the [Detect Setting] dialog. I Detect Setting"(P. 13)		
An error message "Cannot activate multiple apps." is displayed.	1. Restart the PC.		
	 Check if the OBSCURAS is not starting up with another account that is signed in to the PC. 		

Chapter 5 Appendix



This chapter This chapter describes the machine specifications.

License Library52

5.1 License Library

Camera App

Copyright @ 2023 MIMAKI ENGINEERING CO., LTD. All rightsreserved. Camera App is built using open source software:

- OpenCvSharp4
- log4net

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Version 2.0, January 2004 http://www.apache.org/licenses/

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