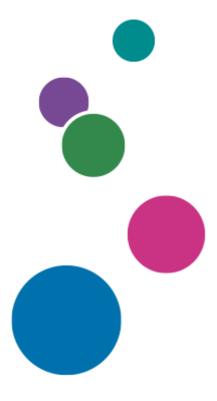


Operating Instructions



Introduction

This manual contains detailed instructions and notes on the operation and use of this machine. For your safety and benefit, read this manual carefully before using the machine. Keep this manual in a handy place for quick reference.

For safe and correct use, be sure to read the Safety Information in "Read This First" before using the machine.

How to Read This Manual

Symbols

This manual uses the following symbols:



Indicates points to pay attention to when using functions. This symbol indicates points that may result in the product or service becoming unusable or result in the loss of data if the instructions are not obeyed. Be sure to read these explanations.



Indicates supplementary explanations of the product's functions and instructions on resolving user errors.

Reference

Indicates where you can find further relevant information.

[]

Indicates the names of keys or buttons on the product or display.

Disclaimer

To the maximum extent permitted by applicable laws, in no event will the manufacturer be liable for any damages whatsoever arising out of failures of this machine, losses of the registered data, or the use or non-use of this product and operation manuals provided with it.

Make sure that you always copy or have backups of the data registered in this machine. Documents or data might be erased due to your operational errors or malfunctions of the machine.

In no event will the manufacturer be responsible for any documents created by you using this machine or any results from the data executed by you.

Notes

Contents of this manual are subject to change without prior notice.

Some illustrations or explanations in this guide may differ from your product due to improvement or change in the product.

The manufacturer shall not be responsible for any damage or expense that might result from the use of parts other than genuine parts from the manufacturer with your office products.

Two kinds of size notation are employed in this manual.

The following OS version screens are used as examples in this manual:

- Windows 11
- macOS 12
- iOS 15
- Android 12

About the Model Names of this Machine

There are two models of this product, and some functions, operating procedures, and specifications differ depending on the model.

In this manual, descriptions that differ depending on the model are provided with the following names for the model in question:

Model names	Name in this document
RICOH Portable Monitor 150	150 model
RICOH Portable Monitor 150BW	150BW model

How to check the model name

Check the model name at the top of the label attached to the back of the machine.

Terminology

This section explains the terms used in this manual.

RICOH Monitor

This is the abbreviated name for this product.

In this document, the term "this machine" is mainly used, while "RICOH Monitor" is used to refer to the 150 models or 150BW models other than this machine.

Device

In this manual, the term "device" is used exclusively for personal computers, smartphones, and other devices that are connected to this machine via a wired or wireless connection.

USB PD

This is an abbreviation for "USB Power Delivery", which is an extended USB standard that enables USB Type-C to receive and deliver power. This product uses a computer, smartphone, or charger that supports the USB PD standard.

USB PD Charger

This charger supports the USB PD (USB Power Delivery) standard.

TABLE OF CONTENTS

Introduction	1
How to Read This Manual	2
Symbols	2
Disclaimer	2
Notes	2
About the Model Names of this Machine	3
Terminology	3
1. Overview	9
Things You Can Do with the Machine	
Things That You Can Do with All Models	10
Things That You Can Do with the 150BW Model	10
Component Names and Functions	13
Right Side	13
Back Side	15
Regarding Commercially Available Products	16
2. Preparations for Using the Machine	17
Checking the Accessories	17
When Using this Machine for the First Time	18
Attaching Cable Clamps	18
Connecting Cable	19
Charging This Machine (150BW Model Only)	20
When Using the Wireless Connection for the First Time (150BW models only) .	22
Changing the Initial Settings	22
3. Basic Usage	25
Operation Flow	25
Using the Stand	27
Turning On and Off the Power	29
Turning On the Power	29
Turning Off the Power	30
When the Connected Device Enters Power-saving Mode	30
Switching Inputs	31
Changing the Volume	34
Storing this Machine	35

4. Connecting the Device via Wired Connection	37
Overview of Wired Connection	37
Supported OS for Wired Connection	37
Connecting to a Device	38
Windows/macOS	38
iOS	39
Android	41
5. Connecting the Device via Wireless Connection (150BW models only)	43
Overview of Wireless Connection	43
Using OS Functions to Connect Directly to Devices	43
Using the Application to Connect to Devices in the Same Network	44
Using the Application to Connect to Multiple RICOH Monitors at the Same Time	45
Network Environment	46
Supported OS for Wireless Connection	46
Using the Application to Automatically Connect to RICOH Monitors	47
About the Wireless Connection Screen	48
Waiting to connect Screen	48
Connecting Screen	49
Settings Screen	52
Using OS Functions to Connect Directly to a Device (Windows/Android)	54
Connecting with Windows	54
Connecting with Android	57
Using the Application to Connect to Devices in the Same Network (macOS/iOS)	
When Connecting for the First Time	59
Connecting with RICOH Monitor Mirroring for macOS	61
Connecting with RICOH Monitor Mirroring for iOS	63
Using the Application to Connect to Multiple RICOH Monitors at the Same Time (Windows)	67
When Connecting for the First Time	
Connecting with RICOH Monitor Multicast for Windows	
Using the Application to Connect to RICOH Monitor Automatically (Windows)	
Using RICOH Monitor Auto Cast for Windows to Connect	
Things You Can Do on the Connecting Screen	
Rotating the Screen	86

86
87
87
88
88
88
90
92
92
92
97
97
97
100
101
101
103
105
105
107
107
107
111
111
114
114
114
115
115
117
117
117
118

Messages Related to the On-screen Display Menu	119
Messages Related to Screen Display	121
Messages Related to Wireless Connection	122
Messages Related to RICOH Monitor Mirroring for macOS/RICOH MoiOS	_
Messages Related to RICOH Monitor Multicast for Windows	125
When You Cannot Use the Machine As You Want	127
Problems Related to Power Supply	127
Problems Related to the Battery	131
Problems Related to Pass-through Charging	132
Problems Related to Touch/Stylus Pen Operation	132
Problems Related to Images	139
Problems Related to Sound	150
Problems Related to Wireless Connection	154
Problems Related to RICOH Monitor Mirroring for macOS/RICOH Mo	•
Problems Related to RICOH Monitor Multicast for Windows	160
Problems Related to Firmware Updates	160
Troubles Related to This Machine	
9. Appendix	165
Using a Stylus Pen	
Maintenance	
Cleaning the Display	166
Specifications	
Machine Specifications	
Optional Specifications	
Trademarks	

1. Overview

This section provides an overview of the product and the names and functions of the various parts.

1

Things You Can Do with the Machine

Things That You Can Do with All Models

Connecting to a computer or another device to display the screen

Connect this machine to a computer, smartphone, or another device with a USB Type-C cable to display the device's screen.

⇒page 37 "Connecting the Device via Wired Connection"



Operating the screen of a connected device

When connected to a device that supports touch operation, you can use your finger or stylus pen (optional) to operate the screen from this machine.

⇒page 37 "Connecting the Device via Wired Connection"

⇒page 165 "Using a Stylus Pen"

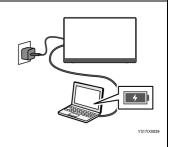


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Charging connected devices (pass-through charging)

A commercially available USB PD charger can be used to charge devices connected to this machine with a USB Type-C cable.

⇒page 105 "Charging a Device Connected to This Machine (Pass-through Charging)"



Things That You Can Do with the 150BW Model

Connecting to a computer or another device to display the screen

This machine can be used to connect to a computer, smartphone, or another device by wireless connection to display the screen of the device.

Depending on the operating system of the connected device, wireless connection is available by using an application.

⇒page 43 "Connecting the Device via Wireless Connection (150BW models only)"



Operating the screen of a connected device

When connected to a device with an OS that supports touch operation via wireless connection, the device can be operated with a finger or stylus pen (optional) from this machine.

⇒page 43 "Connecting the Device via Wireless Connection (150BW models only)"



Broadcasting the screen of connected devices (Windows only)

An application can be used to broadcast the Windows screen to multiple RICOH Monitors connected via the wireless connection.

⇒page 67 "Using the Application to Connect to Multiple RICOH Monitors at the Same Time (Windows)"



Connecting to two devices and displaying their screens

This machine can be connected to two devices by wireless connection to display the screens of both devices at the same time.

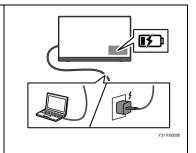
⇒page 86 "Things You Can Do on the Connecting Screen"



Charging this machine

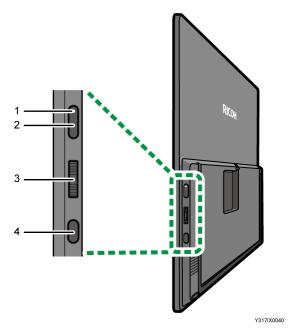
You can charge the machine by connecting it to a device that supports the USB PD standard or to a commercially available USB PD charger.

⇒page 107 "Charging This Machine (150BW Model Only)"



Component Names and Functions

Right Side



1. Power LED

This indicates the status of this machine.

150 model

LED	Color	Status
Off	-	Power off
Lit	White	Power on

150BW model

LED	Color	Status
Off	-	• When the light turns OFF during battery charging Charging complete
Lit	White	Power on
Lit	Orange	Battery charging

2. Power button

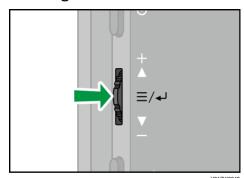
This turns ON or OFF the power of this machine.

For details, see page 29 "Turning On and Off the Power".

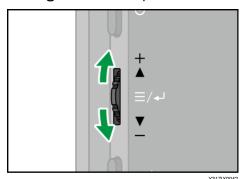
3. Menu/Select/Enter button

The Menu/Select/Enter button has the following controls:

Pressing the center of the button



• Sliding the button up or down



The differences in the condition of this machine and the operation of its buttons are as follows:

When the On-screen Display menu and Switching Input screen are not displayed

Button operation	Machine operation
Pressing the center of the button	Displays the On-screen Display menu
Sliding the button up or down	Adjusts the volume

• When the On-screen Display menu or Switching Input screen is displayed

Button operation	Machine operation
Pressing the center of the button	Confirms the selected item
Sliding the button up or down	Moves the selection position or changes the setting value

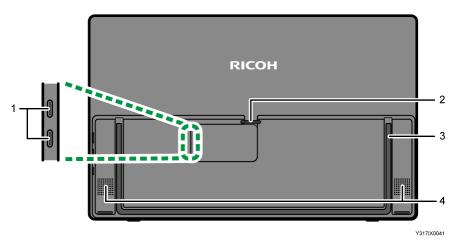
4. Switching Input/Back button

This displays the Switching Input screen. Press again to close the Switching Input screen.

When the On-screen Display menu is displayed, it returns to the previous screen.

For details about the On-screen Display menu, see page 111 "Operating the On-screen Display Menu".

Back Side



1. Top: USB port 1 (Type-C)/Bottom: USB port 2 (Type-C)

Connect this machine to a computer, smartphone, or another device for video and audio input.

It can also be connected to a commercially available USB PD charger so as to charge this machine (150BW model only).

The input assignment for USB ports 1 and 2 can be changed on the Switching Input screen. For details, see page 31 "Switching Inputs".

2. Cable holder

For details about how to use the cable holder, see page 19 "Connecting Cable".

3. **Stand**

For details about how to use the stand, see page 27 "Using the Stand".

4. Speaker

This outputs audio input from devices connected to this machine.

Regarding Commercially Available Products

This section describes the commercially available products that can be used with this machine.



• Do not use adapters/chargers or conversion connectors for USB standards other than Type-C. The use of commercially available products not included in the description could cause this machine to malfunction.

Use according to the environment in which this machine is used and the intended application.

USB PD charger

A USB Type-C charger that supports the USB PD (USB Power Delivery) standard can be used to supply power to this machine.

The required USB PD charger specifications vary depending on the intended use.

Objective	Recommended specifications
Connecting to the device with a wired connection	Output 7.5 W or more Output of 15 W or more recommended
Connecting to devices with iOS	Output of 15 W or more
Charging devices connected to this machine (pass-through charging)	Maximum output 45 W
Charging this machine (150BW only)	Output of 20 W or more

USB Type-C cable

You can use a USB Type-C cable with both terminals being USB Type-C only. Use when connecting this machine to a USB PD charger or when connecting to two devices with a wired connection.

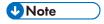
- Apple conversion adapter "Lightning Digital AV Adapter"
 Use when connecting this machine to devices with iOS.
- HDMI to USB Type-C conversion cable
 Use the conversion cable to connect from the HDMI port to the USB Type-C port.
 Use when connecting this machine to devices with iOS.

2. Preparations for Using the Machine

Checking the Accessories

If anything is missing or damaged, contact your sales representative or service representative.

- USB Type-C cable
- Cable clamps × 4
- Sleeve case
- Read This First *1
- Quick Guide *1
- License Code for "RICOH Monitor Multicast for Windows" (150BW Model Only)
- · Warranty card
- EU ErP Lot5 label (UK/EU) *1 *2
- Instructions to Dealers *1 *2
- Warranty Flyer for EU/NA *1 *3
- *1 It is enclosed together in a plastic bag in the package.
- *2 It is included with products manufactured from January 2023 onward. For the month of manufacture, see the "20xx-xx" portion of the label on the back of this machine.
- *3 It is included with products manufactured from July 2023 onward. For the month of manufacture, see the "20xx-xx" portion of the label on the back of this machine.



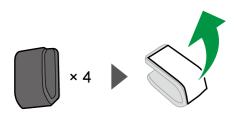
- Before discarding the package, check that you haven't left any accessories inside the box.
- Dispose of packaging materials wisely. You can recycle the cardboard carton. Consider storing the package for future transport of the machine if possible.
- Do not leave plastic bags within reach of young children or infants.

When Using this Machine for the First Time

When using this machine for the first time, perform the following operations:

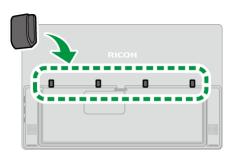
Attaching Cable Clamps

1. Remove the stickers from the supplied cable clamps $(\times 4)$.



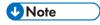
2. Attach the cable clamps to the desired position on the back of this machine.

• Example of cable clamps installation

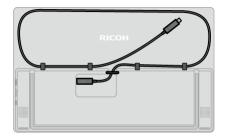


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Proceed to page 19 "Connecting Cable".



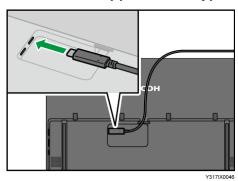
• It is recommended that the cable clamps be installed evenly on both sides of the back of this machine in order to keep the cables in the following condition when this machine is stored in the sleeve case:



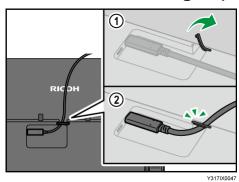
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Connecting Cable

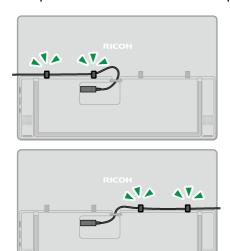
1. Connect the supplied USB Type-C cable to the USB port of this machine.



2. Lift up the left end of the cable holder, pass the cable through, and then return the cable holder to its original position.



- 3. Pass the cable through the cable clamps depending on the environment in which this machine will be used.
 - Example of cable and cable clamps usage

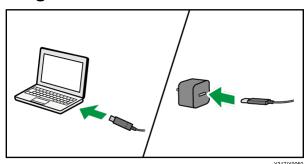


When using the 150BW model, proceed to page 20 "Charging This Machine (150BW Model Only)".

Charging This Machine (150BW Model Only)

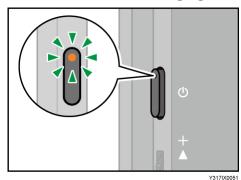


- When using a commercially available USB PD charger, be sure to use one specifically for USB Type-C. The use of adapters/chargers or conversion connectors for other USB standards could result in a malfunction of this machine.
- Be sure to use a commercially available USB PD charger with an output of 20 W or more.
- Connect the USB Type-C cable connected to USB port 1 of this machine to a device that supports the USB PD standard or to a commercially available USB PD charger.

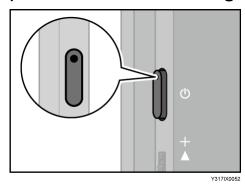


2. Check that the device is ready to supply power when connected to a device that supports the USB PD standard. Plug the USB PD charger into a power outlet when connected to a USB PD charger.

This machine starts charging, and the power LED is lit orange.



3. Remove the USB Type-C cable from the device or USB PD charger when the power LED turns OFF and charging is complete.



To continue with the initial settings for wireless connection, proceed to page 22 "When Using the Wireless Connection for the First Time (150BW models only)".

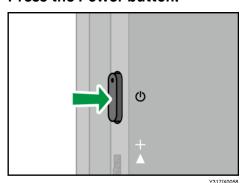
Changing the Initial Settings

When using the wireless connection for the first time, a screen for the initial settings of the device is displayed.



• To continue from the procedure described in the Quick Guide, a separately provided manual, proceed from step 4.

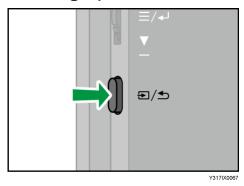
1. Press the Power button.



The power LED turns ON white, and the machine starts up.

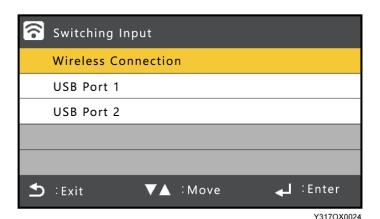
If the power does not turn ON, charge this machine. For details, see page 20 "Charging This Machine (150BW Model Only)".

2. Switching Input/Back button

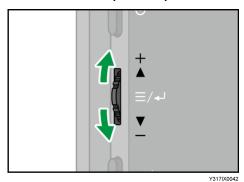


The Switching Input screen appears.

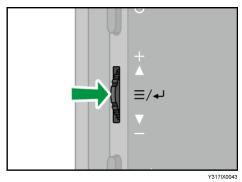
2



3. Slide the Menu/Select/Enter button up or down to select [Wireless Connection].



4. Press the center of the Menu/Select/Enter button.



The initial settings screen for the wireless connection appears.

In the initial settings screen, touch the screen to operate.

5. Select the language if necessary, and then touch [OK].



6. Change the device name if necessary, and then touch [OK].

Enter the device name using four to 30 single-byte alphanumeric characters.



The initial settings are completed, and the Waiting to connect... screen appears.

To continue with the wireless connection, proceed to page 43 "Connecting the Device via Wireless Connection (150BW models only)".

3. Basic Usage

Operation Flow

The basic operation flow of this machine is as follows:

- 1. Remove this machine from its sleeve case.
- 2. Open the stand and adjust the angle.
 - ⇒page 27 "Using the Stand"
- 3. Connect it to a computer, smartphone, or another device.
 - When connecting via a wired connection to a device



- ⇒page 29 "Turning On and Off the Power"
- ⇒page 31 "Switching Inputs"
- ⇒page 37 "Connecting the Device via Wired Connection"
- When connecting via a wireless connection to a device (150BW models only)
 When using the wireless connection for the first time, it is necessary to change to [Wireless Connection] on the Switching Input screen.



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- ⇒page 29 "Turning On and Off the Power"
- ⇒page 31 "Switching Inputs"
- ⇒page 43 "Connecting the Device via Wireless Connection (150BW models only)"

4. Operate this machine.

The things that you can do vary depending on the OS of the connected device.

⇒page 37 "Overview of Wired Connection"

⇒page 43 "Overview of Wireless Connection"

The things that you can do with this machine when connected to a device are as follows:

• Video display/audio playback

Display and playback the screen and audio of the connected device on this machine.

Screen sharing

Using a free application, the Windows screen can be broadcasted to multiple RICOH Monitors connected via a wireless connection.

Touch operation

Operate connected devices by touching the screen of this machine with your finger.

• Stylus pen operation (optional)

Operate connected devices by touching the optional stylus pen to the screen of this machine.

- 5. Disconnect from the device.
- 6. Return the stand to the storage position.

⇒page 27 "Using the Stand"

7. Store this machine in the sleeve case.

⇒page 35 "Storing this Machine"



- Stylus pen operation requires an optional stylus pen.
- Stylus pen operation with a wireless connection can only be performed by touch with the stylus pen. If you want to use the stylus pen's function buttons, connect it with a wired connection.

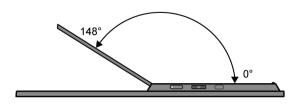
Using the Stand

ACAUTION

- Do not apply strong force or impact from the screen side of this machine while the stand is open. Doing so could cause damage to the stand.
- Do not attempt to open the stand to an angle greater than the maximum angle (148°) or to apply strong force in the direction of further opening when the stand is opened to the maximum angle. Doing so could damage the stand.

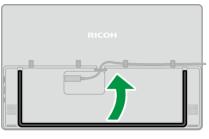
About the range of stand movement

The stand moves within the following range:



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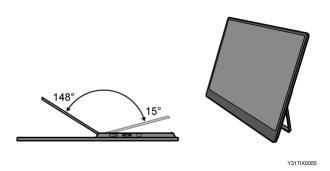
1. Open the stand.



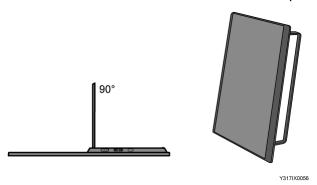
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2. Adjust the angle of the stand.

Stepless adjustment
 Use at any angle according to usage.



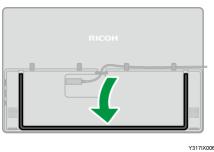
• Portrait placement



• Handwriting Set the stand at 148° for easy writing with a finger or stylus pen (optional).



3. Return the stand to the storage position when finished using it.

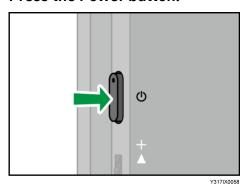


3

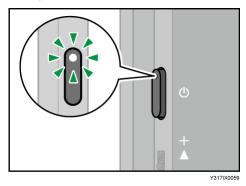
Turning On and Off the Power

Turning On the Power

1. Press the Power button.



The power LED turns ON white, and the machine starts up.



When using the 150 model

When a device that supports the USB PD standard or a USB PD charger is connected to this machine, the power of this machine automatically turns ON. However, the behavior and operation will vary depending on the connected device and the condition of this machine.

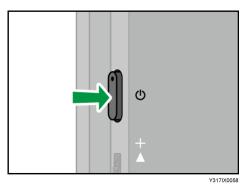
- When the connected device is turned ON
 This machine automatically turns ON.
- When the connected device is turned OFF
 When the device is turned ON, this machine automatically turns ON.
- When this machine is connected to a device that supports the USB PD standard or to a USB PD charger, and when the power of this machine is turned OFF

This machine does not turn ON automatically regardless of the power status of the connected device. Press the power button on this machine.

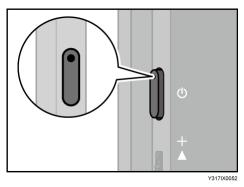
When there is no video/audio input from the connected device and no operation for a certain period of time, this machine automatically turns OFF.

To turn OFF the power manually, perform the following operation:

1. Press the Power button.



This machine shuts down, and the power LED turns OFF.



When the Connected Device Enters Power-saving Mode

When the connected device enters a power-saving mode such as sleep mode and then exits the power-saving mode, the power of this machine does not turn ON automatically. Press the power button on this machine.

2

Switching Inputs

You can use the following input methods to connect this machine to a computer, smartphone, or another device:

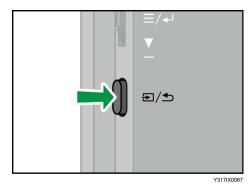
- USB Port 1
- USB Port 2
- Wireless Connection (150BW model only)

When only one device is connected to this machine, the connection is detected, and the input method is automatically switched.

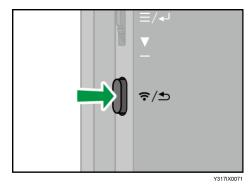
When using the wireless connection for the first time (150BW model only) or when multiple devices are connected to the machine, the input method must be switched manually.

1. Press the Switching Input/Back button.

• 150 model

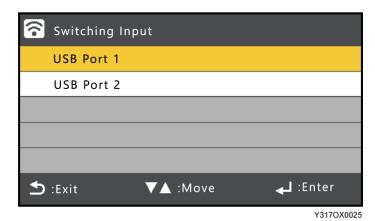


• 150BW model

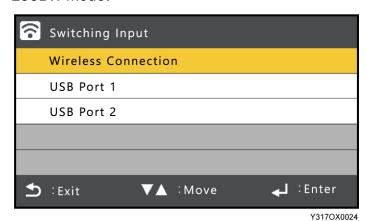


The Switching Input screen appears.

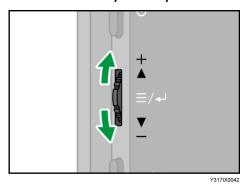
• 150 model



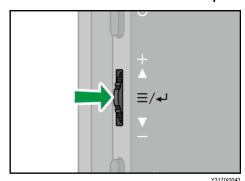
• 150BW model



2. Slide the Menu/Select/Enter button up or down to select the input method.



3. Press the center of the Menu/Select/Enter button.

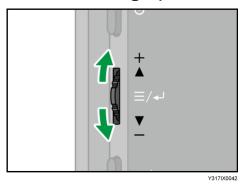


32

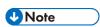
The display switches to the screen of the selected input method.

Changing the Volume

1. Slide the Menu/Select/Enter button up or down when the On-screen Display menu or Switching Input screen is not displayed.



- Increase the volume
 Slide the Menu/Select/Enter button up.
- Decrease the volume
 Slide the Menu/Select/Enter button down.



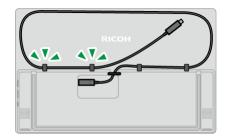
- Changing the volume of the machine from the factory default settings can increase the power consumption of the machine. When the relevant setting is displayed for the first time, a message appears. If you agree with the message after confirming its content, press the center of the Menu/Select/Enter button. If the message has already been displayed when using Brightness, Contrast, or Color Temp. on the Onscreen Display menu, the message is not displayed when changing the volume.
- When the message Low power mode appears, this machine is connected to a power source with an output of less than 15 W, which limits the setting values of the setting items. To change the setting values, connect this machine to a device that supports the USB PD standard with an output of 15 W or more or to a USB PD charger. For details about the contents of the message, see page 117 "If a Message is Displayed during Operation".

3

Storing this Machine

When you are finished using this machine, store it in the sleeve case with the USB Type-C cable connected.

- 1. Pass the USB Type-C cable through the cable clamps.
 - Example of cable and cable clamps usage



Y317IX006

2. Store this machine in the sleeve case.



4. Connecting the Device via Wired Connection

This section explains how to connect this machine to a device such as a computer or smartphone with a USB Type-C cable to display and playback video and audio from the device on this machine.

Overview of Wired Connection

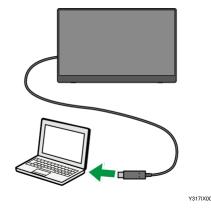
Supported OS for Wired Connection

For details about operating systems of devices that support wired connection, see Supported OS, a separately provided manual.

Windows/macOS

1. Connect the USB Type-C cable to the device.

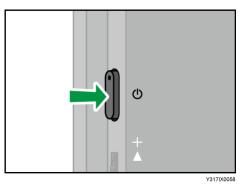
Connecting to a Device



When using the 150 model

- When the connected device is turned ON This machine automatically turns ON.
- When the connected device is turned OFF
 When the device is turned ON, this machine automatically turns ON.
- When this machine is connected to a device that supports the USB PD standard or to a USB PD charger, and when the power of this machine is turned OFF

This machine does not turn ON automatically regardless of the power status of the connected device. Press the power button on this machine.

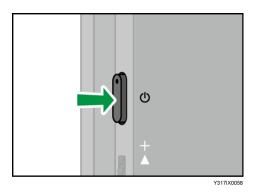


When using the 150BW model

Press the power button on this machine after connecting to the device.

.





2. Operate this machine according to the purpose.

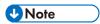
The following functions are available depending on the OS of the connected device:

Windows

- Video display/audio playback
- Touch operation
- Stylus pen operation (optional)

macOS

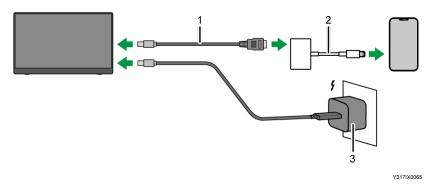
• Video display/audio playback



• Two devices can be connected to this machine simultaneously using USB port 1 and USB port 2, but only one of the devices can be selected as the input method and displayed on this machine. If you manually switch the input method, you can switch to the screen of the other device. For details, see page 31 "Switching Inputs".

iOS

To connect to an iOS device equipped with a Lightning port, you need the following equipment, which is common for 150/150BW models:



- 1. HDMI to USB Type-C conversion cable
- 2. Apple conversion adapter "Lightning Digital AV Adapter" (conversion adapter)
- 3. USB PD charger with an output of 15 W or more

Follow the steps below to connect this machine to a device.

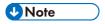
- 1. Connect the conversion adapter to the device.
- 2. Connect the supplied USB Type-C cable to a USB PD charger with an output of 15 W or higher.
- 3. Connect the USB Type-C cable to this machine.
- 4. Plug the USB PD charger into an electrical outlet.
- 5. Connect the HDMI to USB Type-C conversion cable to the HDMI port on the conversion adapter.
- 6. Connect the HDMI to USB Type-C conversion cable to this machine.
- 7. Press the Power button.



This machine turns ON, and the screen of the connected device appears on the screen.

8. Operate this machine according to the purpose.

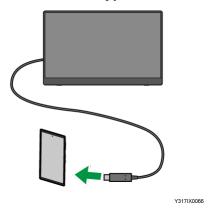
Video display/audio playback is available on iOS.



 A USB PD charger with an output of 15 W or more is required to use the conversion adapter and conversion cable; be sure to connect the USB PD charger to this machine, even if you are using the 150BW model.

Android

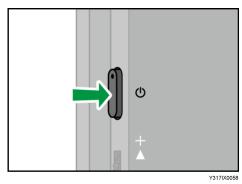
1. Connect the USB Type-C cable to the device.



When using the 150 model

- When the connected device is turned ON
 This machine automatically turns ON.
- When the connected device is turned OFF
 When the device is turned ON, this machine automatically turns ON.
- When this machine is connected to a device that supports the USB PD standard or to a USB PD charger, and when the power of this machine is turned OFF

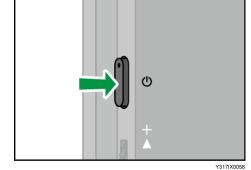
This machine does not turn ON automatically regardless of the power status of the connected device. Press the power button on this machine.



• If the machine does not turn on automatically when the device connected Enough power not supplied from the device to the machine; connect the machine to the USB PD charger.

When using the 150BW model

Press the power button on this machine after connecting to the device.



2. Operate this machine according to the purpose.

The following features are available on Android:

- Video display/audio playback
- Touch operation



- Two devices can be connected to this machine simultaneously using USB port 1 and USB port 2, but only one of the devices can be selected as the input method and displayed on this machine. If you manually switch the input method, you can switch to the screen of the other device. For details, see page 31 "Switching Inputs".
- Some devices might not operate properly.

4

5. Connecting the Device via Wireless Connection (150BW models only)

This section explains how to connect this machine to a device such as a computer or smartphone via a wireless connection to display and playback video and audio from the device on this machine.

Overview of Wireless Connection



• Be careful where the equipment is installed, so as to prevent unauthorized tampering by any malicious third party.

To connect the device via a wireless connection, you can use the following methods:

- page 43 "Using OS Functions to Connect Directly to Devices"
- page 44 "Using the Application to Connect to Devices in the Same Network"
- page 45 "Using the Application to Connect to Multiple RICOH Monitors at the Same Time"

The connection method can be selected according to the OS of the device to be connected and the purpose thereof.

Using OS Functions to Connect Directly to Devices

You can connect the machine directly to a device using Wi-Fi Direct without going through an access point.

For details about supported operating systems, see Supported OS, a separately provided manual.



The device to be connected must support Miracast.

It is not necessary to set up Wi-Fi on this machine.



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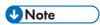
Settings of this machine required for connection

Settings	Reference
Dev.Info/Setting*1	page 97 "Dev.Info/Setting"

^{*1} When the initial settings have already been made, there is no need to change the settings anew.

The machine can connect to a maximum of two devices wirelessly and can display screens from them at a time. You can use a combination of the following methods to do this:

- Using the relevant OS function
- Using RICOH Monitor Mirroring for macOS/iOS
- Using RICOH Monitor Multicast for Windows
- Using RICOH Monitor Auto Cast for Windows



 Wi-Fi setup is required when used in combination with an application to connect to devices in the same network.

Using the Application to Connect to Devices in the Same Network

Use RICOH Monitor Mirroring for macOS or RICOH Monitor Mirroring for iOS to connect to devices in the same network as this machine via an access point.

For details about supported operating systems, see Supported OS, a separately provided manual.



 This machine and the device must be connected to the same network (same subnet).



Settings of this machine required for connection

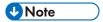
Settings	Reference
Dev.Info/Settin g*1	page 97 "Dev.Info/Setting"

Settings	Reference
Wi-Fi	page 22 "When Using the Wireless Connection for the First Time (150BW models only)" page 100 "Wi-Fi"

^{*1} When the initial settings have already been made, there is no need to change the settings anew.

The machine can connect to a maximum of two devices wirelessly and can display screens from them at a time. You can use a combination of the following methods to do this:

- Using the relevant OS function
- Using RICOH Monitor Mirroring for macOS/iOS
- Using RICOH Monitor Multicast for Windows
- Using RICOH Monitor Auto Cast for Windows



The IP address of this machine is automatically assigned by DHCP.

Using the Application to Connect to Multiple RICOH Monitors at the Same Time

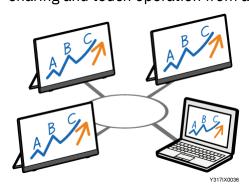
Use RICOH Monitor Multicast for Windows to connect multiple RICOH Monitors and devices in the same network.

For details about supported operating systems, see Supported OS, a separately provided manual.



 All connected RICOH Monitors and devices must be connected to the same network (same subnet).

Up to 32 RICOH Monitors can be connected simultaneously, enabling Windows screen sharing and touch operation from a specific connected RICOH Monitor.



Settings of this machine required for connection

Settings	Reference
Dev.Info/Settin g*1	page 97 "Dev.Info/Setting"
Wi-Fi	page 22 "When Using the Wireless Connection for the First Time (150BW models only)" page 100 "Wi-Fi"

^{*1} When the initial settings have already been made, there is no need to change the settings anew.

The machine can connect to a maximum of two devices wirelessly and can display screens from them at a time. You can use a combination of the following methods to do this:

- Using the relevant OS function
- Using RICOH Monitor Mirroring for macOS/iOS
- Using RICOH Monitor Multicast for Windows
- Using RICOH Monitor Auto Cast for Windows



• The IP address of this machine is automatically assigned by DHCP.

Network Environment

For wireless connection via an application, your network must meet the following requirements:

Item	Network Environment
Standard	IEEE802.11 b/g/n (2.4GHz)
	IEEE802.11 a/n/ac (5GHz)
Encryption method	WPA2-PSK*1

^{*1} The communication encryption method follows Miracast and supports WPA2-PSK.

Supported OS for Wireless Connection

For details about operating systems that support wireless connection, see Supported OS, a separately provided manual.

Using the Application to Automatically Connect to RICOH Monitors

Use RICOH Monitor Auto Cast for Windows to connect your device to a RICOH Monitor nearby. For details about supported operating systems, see Supported OS, a separately provided manual.

A RICOH Monitor can be connected automatically, enabling Windows screen sharing and touch operation from a specific connected RICOH Monitor.

It is not necessary to set up Wi-Fi on this machine.



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Settings of this machine required for connection

Settings	Reference
Dev.Info/Setting*1	Dev.Info/Setting

^{*1} When the initial settings have already been made, there is no need to change the settings anew.

The machine can connect to a maximum of two devices wirelessly and can display screens from them at a time. You can use a combination of the following methods to do this:

- Using the relevant OS function
- Using RICOH Monitor Mirroring for macOS/iOS
- Using RICOH Monitor Multicast for Windows
- Using RICOH Monitor Auto Cast for Windows

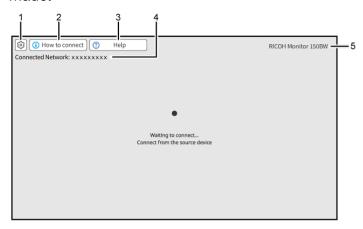
About the Wireless Connection Screen

This section describes the screens related to wireless connection.

Waiting to connect... Screen

This screen is first displayed when this machine is started up while [Wireless Connection] is selected in the Switching Input screen.

In the Waiting to connect... screen, various settings for the wireless connection can be made.



1. Settings

Displays the [Settings] screen

For details, see page 97 "Changing Wireless Connection Settings".

2. How to connect

Displays the [How to connect] screen

You can check the connection method for each OS on the [How to connect] screen.

3. Help

Displays the [Help] screen

When the wireless connection cannot be established correctly, the [Help] screen displays the status of connection, what to check then, and what to do for each operating system of the connected source device.

4. Connected Network

Displays the networks to which this machine is connected

5. **Device name**

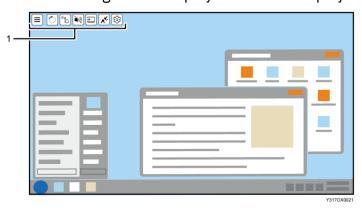
The device name of this machine is displayed.

For details, see page 97 "Dev.Info/Setting".

Connecting Screen

This screen is displayed when a connection is successfully established from the device side.

The connecting screen displays a menu of display and audio functions.



1. Menu

You can use functions related to display, audio, etc.

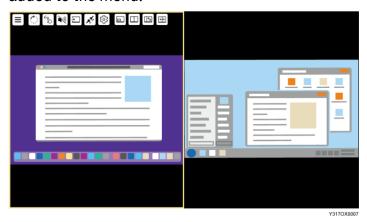
For details, see page 50 "Icons of the menu displayed on the Connecting screen".

When connected to two devices

When a second device is connected, the display switches to the two-screen display.

When two screens are displayed in split-screen mode, touch the screen that you want to operate, and then screen that you touch becomes the active screen to be operated, and a yellow frame is displayed.

When two devices are connected, functions related to the display of two screens are added to the menu.



49

Icons of the menu displayed on the Connecting screen

Icons that are always displayed

Icon	Description
Change Icon Display	Toggles between showing and hiding the icons displayed in the menu You can also change the display position of the menu by touching and moving the icon. The display position is fixed to the four corners of the screen. The display position of the sub-screen changes to the corner of the screen closest to the position where the icon was moved.
Screen Rotation	Rotates the displayed screen 90° clockwise • page 86 "Rotating the Screen"
Touch Trace	Turns the Touch Traces ON/OFF When turned ON, the icon will display the following: Reference
Sound	Toggles the sound mute on/off When the sound mute is turned on, the icon changes to: Reference • page 87 "Muting Sound"
Mute AV	Toggles the screen display, sound, and touch operation on/off with a single operation When the AV mute is turned on, the icon changes to: Reference • page 87 "Disabling Screen Display/Sound/Touch Operation Temporarily"
Disconnect	Disconnects the wireless connection When two screens are displayed, the connection to the device on the screen selected for operation is disconnected.

Icon	Description
	Reference
	page 92 "Ending a Connection"
Settings	Displays the Settings screen
	■ Reference
	 page 97 "Changing Wireless Connection Settings"

Icons displayed only when connected to two devices

Icon	Description
Sub-screen	Turns the sub-screen display ON/OFF When turned ON, the icon will display the following: Reference Reference
	 page 88 "Displaying the Sub-screen"
Split Screen	Toggles the split screen ON/OFF When turned ON, the icon will display the following: Reference • page 90 "Splitting the Screen"
Change Split- Position	Switches the split screen position in three levels This icon appears only when the split screen is turned ON. Reference
Swap Screens	Swaps the screen positions This icon appears only when the split screen is turned ON. Reference • page 91 "Switching the screen placement"

Icons displayed only when connected to RICOH Monitor Multicast for Windows

Icon	Description
×	Cannot perform touch operations This icon is displayed in the following cases:

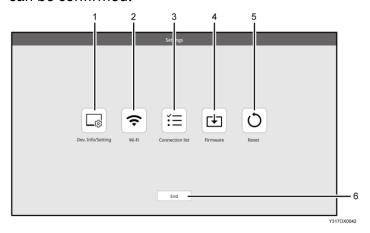
Icon	Description
Touch operation	When touch operations are not allowed in RICOH Monitor Multicast for Windows
permission	When touch operations are allowed in RICOH Monitor Multicast for Windows, but touch operations cannot be performed on this machine because touch operations are performed on another RICOH Monitor that is connected via RICOH Monitor Multicast for Windows
	To enable touch operations, activate the touch operation permission in RICOH Monitor Multicast for Windows.

Settings Screen

This screen is displayed by touching [Settings] (③) on the Waiting to connect... screen or on the Connecting to... screen.

In the Settings screen, you can change or confirm the wireless connection settings.

When the Settings screen is displayed from the Connecting to... screen, only the settings can be confirmed.



1. Dev.Info/Setting

You can check the information pertaining to this machine, and you can change the detailed settings of the wireless connection.

For details, see page 97 "Dev.Info/Setting".

2. **Wi-Fi**

You can change network settings.

For details, see page 100 "Wi-Fi".

3. Connection list

You can manage the connected devices.

For details, see page 101 "Connection List".

4. Firmware

You can check and update the firmware version related to the wireless connection. For details, see page 101 "Firmware".

5. **Reset**

You can initialize the settings of this machine.

For details, see page 103 "Reset".

6. **End**

Exit the settings and return to the previous screen.

Using OS Functions to Connect Directly to a Device (Windows/Android)

You can connect directly to a device using Wi-Fi Direct without going through an access point.



The device to be connected must support Miracast.



• If the Dev.Info/Setting of this machine has not been configured, configure it before starting the connection. For details, see page 97 "Dev.Info/Setting".

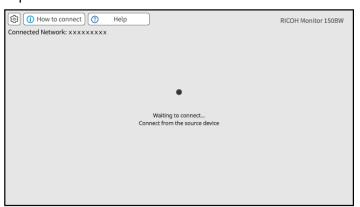
Connecting with Windows

When this machine is turned ON, it enters the standby state for connection, and the connecting operation is performed from the device side. Once the connection is accepted by this machine, a wireless connection will be established. Even if Switching Input is set to USB ports, wireless connection can be established when the connecting operation is performed from the device side.

1. Turn ON this machine and confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see page 29 "Turning On and Off the Power".

If the Waiting to connect... screen does not appear after turning ON the machine, set the Switching Input to [Wireless Connection]. For details, see page 31 "Switching Inputs".



- 2. Display the Connect/Cast screen in Windows.
 - When using Windows 10
 - Click the Action Center icon on the right end of the taskbar.
 The Action Center appears.

5

2. Click [Connect].

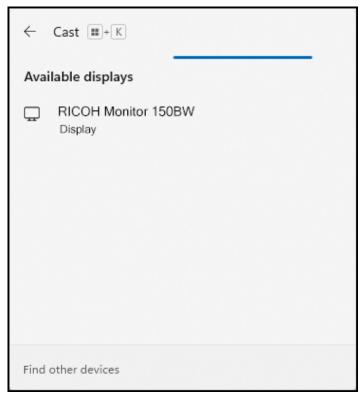
When using the shortcut keys, press the "Windows logo key" (Start key) and the "K" key on the keyboard at the same time.

- When using Windows 11
 - Click the Network, Volume, or Battery icon on the taskbar.
 Quick Settings appears.
 - 2. Click [Cast].

If [Cast] does not appear, click the Edit Quick Settings icon (pen icon) in Quick Settings, and then click [Add] and select [Cast].

When using the shortcut keys, press the "Windows logo key" (Start key) and the "K" key on the keyboard at the same time.

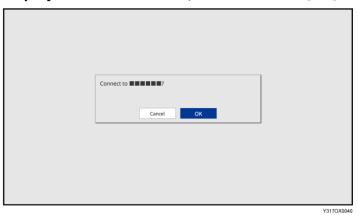
3. Click the device name of the machine that you want to connect.



If Windows successfully communicates with this machine, a message appears on the machine to confirm whether the connection is allowed or not.

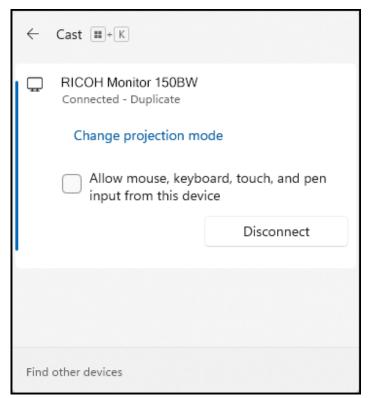
If the device to be connected is already registered in the Connection list of this machine, the message does not appear. Proceed to step 5.

4. Confirm the name of the Windows device to be connected with the message displayed on this machine, and then touch [OK].



The connection is started.

5. When using touch operation or stylus pen operation with this machine, check the "Allow mouse, keyboard, touch, and pen input from this device" checkbox in Windows of the device.





• By registering the information of a device in the Connection list, it can be connected to this machine without having to allow the connection on the device. For details, see page 101 "Connection List".

Connecting with Android

When this machine is turned ON, it enters the standby state for connection, and the connecting operation is performed from the device side. Once the connection is accepted by this machine, a wireless connection will be established. Even if Switching Input is set to USB ports, wireless connection can be established when the connecting operation is performed from the device side.

This section uses Android 12 as an example of the procedure.

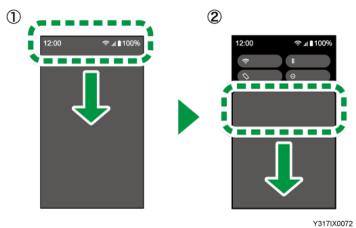
1. Turn ON this machine and confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see page 29 "Turning On and Off the Power".

If the Waiting to connect... screen does not appear after turning ON the machine, set the Switching Input to [Wireless Connection]. For details, see page 31 "Switching Inputs".



2. Swipe down from the top of the Android screen (1), and then swipe down the notification area (2) to open the Quick Settings panel.



Depending on the version of Android, the Quick Settings panel can be displayed by swiping down from the top of the screen.

3. Tap [Cast] or [Cast Screen].

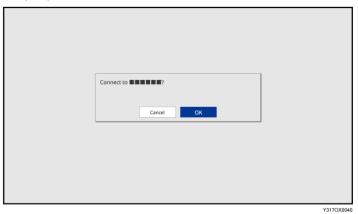
Button names could differ depending on the version and model of Android used.

4. Tap the device name of the machine that you want to connect.

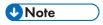
If Android successfully communicates with this machine, a message appears on the machine to confirm whether the connection is allowed or not.

If the device to be connected is already registered in the Connection list of this machine, the message does not appear.

5. Confirm the name of the Android device to be connected with the message displayed on this machine, and then touch [OK].



The connection is started.



• By registering the information of a device in the Connection list, it can be connected to this machine without having to allow the connection on the device. For details, see page 101 "Connection List".

Using the Application to Connect to Devices in the Same Network (macOS/iOS)

Use RICOH Monitor Mirroring for macOS or RICOH Monitor Mirroring for iOS to connect to devices in the same network as this machine via an access point.



 This machine and the device must be connected to the same network (same subnet).

When Connecting for the First Time

The Wi-Fi settings on this machine must be configured in order to connect. If you have not set up Wi-Fi on this machine, perform the following operations first:

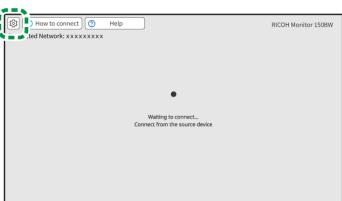
Important

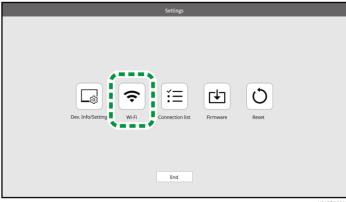
- Settings cannot be changed when this machine is connected to a device via a wireless connection. Be sure to change the settings when the device is not connected via wireless connection.
- 1. Turn ON this machine and confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see page 29 "Turning On and Off the Power".

If the Waiting to connect... screen does not appear after turning ON the machine, set the Switching Input to [Wireless Connection]. For details, see page 31 "Switching Inputs".

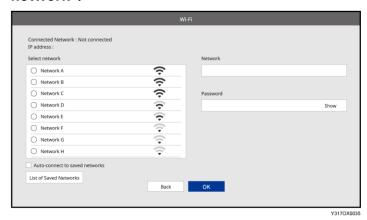
2. Touch [Settings] (
).





The Wi-Fi screen appears.

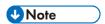
4. Select the network that you want to connect to from the list displayed in "Select network".



To specify the SSID directly, touch the entry field of "Network", and then enter the SSID using the soft keyboard.

- 5. Touch the entry field of "Password", and then enter the password using the soft keyboard.
- 6. Touch [OK].
- 7. If the connection is successful, touch [Back].

To continue to start the connection, proceed to page 61 "Connecting with RICOH Monitor Mirroring for macOS" or page 63 "Connecting with RICOH Monitor Mirroring for iOS".



- Once the connection is successfully established, the network settings are saved in this machine. If you do not want to save the settings, delete the settings from the [List of Saved Networks]. For details, see page 97 "Changing Wireless Connection Settings".
- Up to eight network settings can be saved. If eight network settings have already been saved and a new network is to be saved, the oldest network setting will be deleted.

5

• To automatically connect to a network saved on this machine when it is detected, select the "Auto-connect to saved networks" check box.

Connecting with RICOH Monitor Mirroring for macOS

Download RICOH Monitor Mirroring for macOS



 Applying the latest security patches to the OS of the device can reduce security risks. Make sure that the OS of the device on which the application is to be installed has the latest security patches and update them, as necessary.

Search for "RICOH Monitor Mirroring" in the Mac App Store, and then download the application.

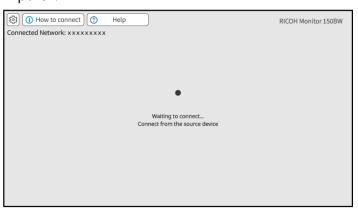
Connecting

When this machine is turned ON, it enters the standby state for connection, and the connecting operation is performed from the device side. Once the connection is accepted by this machine, a wireless connection will be established. Even if Switching Input is set to USB ports, wireless connection can be established when the connecting operation is performed from the device side.

1. Turn ON this machine and confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see page 29 "Turning On and Off the Power".

If the Waiting to connect... screen does not appear after turning ON the machine, set the Switching Input to [Wireless Connection]. For details, see page 31 "Switching Inputs".

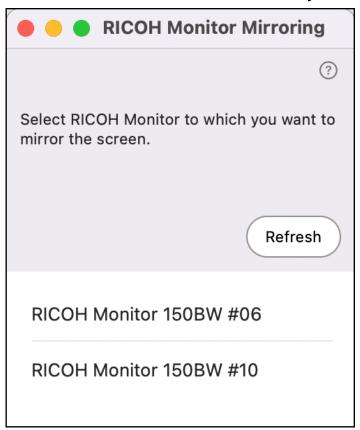


2. Start RICOH Monitor Mirroring for macOS.

When RICOH Monitor Mirroring for macOS starts, the search for RICOH Monitors in the same network starts, and a list of such is displayed.

When using RICOH Monitor Mirroring for macOS for the first time, a message will appear asking if you want to allow screen recording. After confirming the displayed message and performing the operation to allow it, close RICOH Monitor Mirroring for macOS and start it again.

3. Click the device name of the machine that you want to connect.



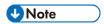
If RICOH Monitor Mirroring for macOS successfully communicates with this machine, a message appears on the machine to confirm whether the connection is allowed or not.

If the device to be connected is already registered in the Connection list of this machine, the message does not appear.

4. Confirm the name of the macOS device to be connected with the message displayed on this machine, and then touch [OK].



The connection is started.



By registering the information of a device in the Connection list, it can be connected
to this machine without having to allow the connection on the device. For details,
see page 101 "Connection List".

Connecting with RICOH Monitor Mirroring for iOS

Download RICOH Monitor Mirroring for iOS



 Applying the latest security patches to the OS of the device can reduce security risks. Make sure that the OS of the device on which the application is to be installed has the latest security patches and update them, as necessary.

Search for "RICOH Monitor Mirroring" in the App Store, and then download the application.

Connecting

When this machine is turned ON, it enters the standby state for connection, and the connecting operation is performed from the device side. Once the connection is accepted by this machine, a wireless connection will be established. Even if Switching Input is set to USB ports, wireless connection can be established when the connecting operation is performed from the device side.

1. Turn ON this machine and confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see page 29 "Turning On and Off the Power".

If the Waiting to connect... screen does not appear after turning ON the machine, set the Switching Input to [Wireless Connection]. For details, see page 31 "Switching Inputs".



14/1-

2. Start RICOH Monitor Mirroring for iOS.

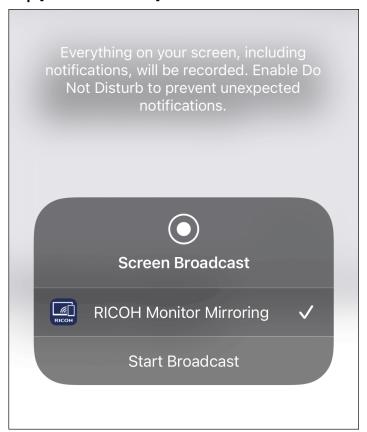
When RICOH Monitor Mirroring for iOS starts, the search for RICOH Monitors in the same network starts, and a list of such is displayed.

When using RICOH Monitor Mirroring for iOS for the first time, the following message appears:

- Whether or not to allow device search on the local network Confirm the displayed message, and then tap [OK].
- Whether or not to allow the use of wireless data
 Confirm the displayed message, and then tap [WLAN only].
- 3. Tap the device name of the machine that you want to connect.



4. Tap [Start Broadcast].



If RICOH Monitor Mirroring for iOS successfully communicates with this machine, a message appears on the machine to confirm whether the connection is allowed or not.

If the device to be connected is already registered in the Connection list of this machine, the message does not appear.

5. Confirm the name of the iOS device to be connected with the message displayed on this machine, and then touch [OK].



The connection is started.

When displaying other screens on iOS, display the Home screen before performing any operation.



• By registering the information of a device in the Connection list, it can be connected to this machine without having to allow the connection on the device. For details, see page 101 "Connection List".

Using the Application to Connect to Multiple RICOH Monitors at the Same Time (Windows)

Use RICOH Monitor Multicast for Windows to connect multiple RICOH Monitors and devices in the same network.



 All RICOH Monitors and devices used must be connected to the same network (same subnet).

When Connecting for the First Time

The Wi-Fi settings on this machine must be configured in order to connect. If you have not set up Wi-Fi on this machine, perform the following operations first:

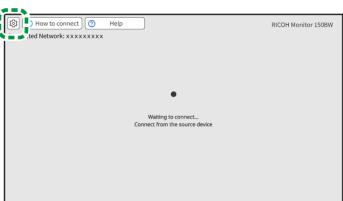


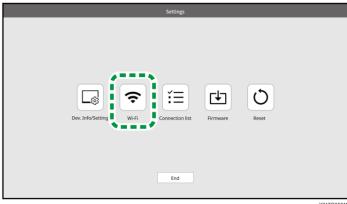
- Settings cannot be changed when this machine is connected to a device via a wireless connection. Be sure to change the settings when the device is not connected via wireless connection.
- 1. Turn ON this machine and confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see page 29 "Turning On and Off the Power".

If the Waiting to connect... screen does not appear after turning ON the machine, set the Switching Input to [Wireless Connection]. For details, see page 31 "Switching Inputs".

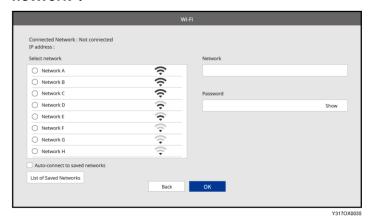
2. Touch [Settings] (
).





The Wi-Fi screen appears.

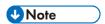
4. Select the network that you want to connect to from the list displayed in "Select network".



To specify the SSID directly, touch the entry field of "Network", and then enter the SSID using the soft keyboard.

- 5. Touch the entry field of "Password", and then enter the password using the soft keyboard.
- 6. Touch [OK].
- 7. If the connection is successful, touch [Back].

To continue to start the connection, proceed to page 69 "Connecting with RICOH Monitor Multicast for Windows".



- Once the connection is successfully established, the network settings are saved in this machine. If you do not want to save the settings, delete the settings from the [List of Saved Networks]. For details, see page 97 "Changing Wireless Connection Settings".
- Up to eight network settings can be saved. If eight network settings have already been saved and a new network is to be saved, the oldest network setting will be deleted.

5

• To automatically connect to a network saved on this machine when it is detected, select the "Auto-connect to saved networks" check box.

Connecting with RICOH Monitor Multicast for Windows

Installing RICOH Monitor Multicast for Windows



 Applying the latest security patches to the OS of the device can reduce security risks. Make sure that the OS of the device on which the application is to be installed has the latest security patches and update them, as necessary.

Download RICOH Monitor Multicast for Windows from the RICOH website and install it on Windows to be used.

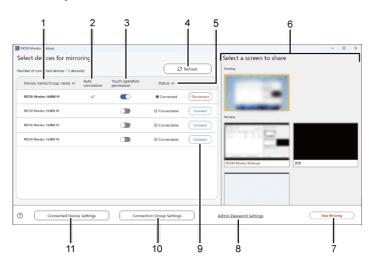
The license code shown in the supplied "RICOH Monitor Multicast for Windows" license code must be entered to install the application.

Confirm that the firmware of this machine is up to date. If the firmware version is not up to date, update the firmware to the latest version. For details about the firmware, see Firmware.

Connecting

The connecting operation is performed from the device side. Once the connection is accepted by this machine, a wireless connection will be established. Even if Switching Input is set to USB ports, wireless connection can be established when the connecting operation is performed from the device side. When specifying the auto connection, the connectable RICOH Monitors start to wirelessly connect to the device.

Description of the RICOH Monitor Multicast for Windows screen



1. Device name/Group name

Displays device names or group names of currently connected RICOH Monitors and connectable RICOH Monitors

2. Auto connection

Displays a check mark for devices for which auto connection is enabled. You can set the auto connection in "Connected Device Settings". For details how to specify, see page 75 "Specifying RICOH Monitors to be connected".

3. Touch operation permission

Toggles the touch operation or stylus pen operation permission enable / disable. The allowed RICOH Monitor can be changed at any time. You can also set the touch operation permission in "Connected Device Settings". For details how to specify, see page 75 "Specifying RICOH Monitors to be connected".

4. [Refresh]

Refreshes the list of the connection status of RICOH Monitors and Device name/Group name

5. Status

Displays the connection status of RICOH Monitors

6. Select a screen to share

Selects the screen to share with RICOH Monitor.

7. [Start Mirroring] / [Stop Mirroring]

Starts or Stops the sharing screen to RICOH Monitors.

8. [Admin Password Settings]

Specifies the admin password. For details, see page 79 "Specifying authentication by the admin password".

9. [Connect] / [Disconnect]

When you want to connect a connectable RICOH Monitor or disconnect a currently connected RICOH Monitor, click these buttons.

When you manually disconnect a RICOH Monitor for which the auto connection is enabled, the RICOH Monitor will be automatically connected again.

If you want to prevent the RICOH Monitor from being connected again, perform any of the following operations:

- Quit this application
- · Disable the auto connection, and then disconnect
- Turn OFF the power of the RICOH Monitor

10. [Connection Group Settings]

Creates a group with selected devices from currently connected devices, connectable devices, and previously connected devices. For details, see page 76 "Specifying a RICOH Monitor group for connection".

11. [Connected Device Settings]

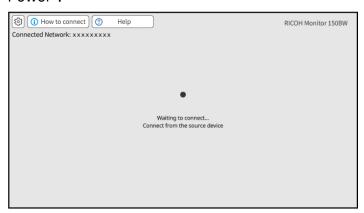
When you want to change the auto connection setting and touch operation permission setting for currently connected RICOH Monitors, connectable RICOH Monitors, and previously connected RICOH Monitors, click this button. For details, see page 75 "Specifying RICOH Monitors to be connected".

Specifying auto connection in advance

You can specify to automatically connect wirelessly when turning ON RICOH Monitor and starting RICOH Monitor Multicast for Windows.

1. Turn ON all RICOH Monitors to be used and confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see page 29 "Turning On and Off the Power".



2. Start RICOH Monitor Multicast for Windows.

When RICOH Monitor Multicast for Windows starts, the search for RICOH Monitors in the same network starts and the list of such is displayed.

3. Click [Connected Device Settings].

Specify the auto connection and the touch operation permission. For details, see page 75 "Specifying RICOH Monitors to be connected" .

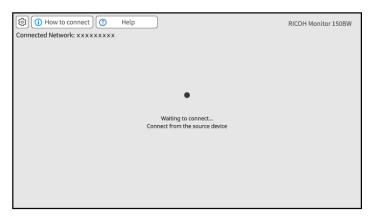
How to connect wirelessly when the auto connection is enabled

1. Turn ON all RICOH Monitors to be used and confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see page 29 "Turning On and Off the Power".

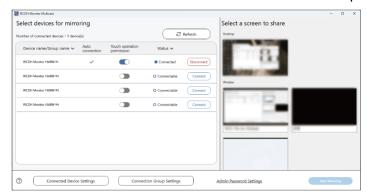
For details about how to set the Switching Input to [Wireless Connection], see page 31 "Switching Inputs".

For details about how to automatically switch to the Waiting to connect... screen when turning on RICOH Monitor, see page 71 "Specifying auto connection in advance".



2. Start RICOH Monitor Multicast for Windows.

When RICOH Monitor Multicast for Windows starts, the search for RICOH Monitors in the same network starts and the list of such is displayed.



3. To be enabled the touch operation permission of the RICOH Monitors that the touch operation permission is disable, toggle on the "Touch operation permission".

However, only one RICOH Monitor can enabled touch operations and stylus pen operations at a time.

When disconnecting the auto connection

When the auto connection is enabled, the connection is established again regardless of whether you disconnect from the RICOH Monitor side or this application. To disconnect the auto connection, perform any of the following operations:

- Quit this application
- Disable the auto connection, and then disconnect
- Turn OFF the power of the RICOH Monitor

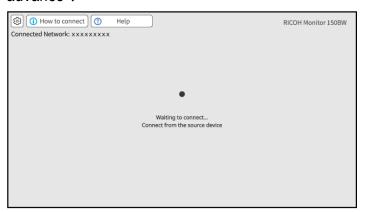
How to connect wirelessly when auto connection is disabled

1. Turn ON all RICOH Monitors to be used and confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see page 29 "Turning On and Off the Power".

For details about how to set the Switching Input to Wireless Connection, see page 31 "Switching Inputs".

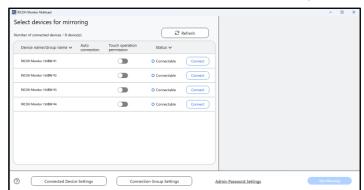
For details about how to automatically switch to the Waiting to connect... screen when turning on RICOH Monitor, see page 71 "Specifying auto connection in advance".



2. Start RICOH Monitor Multicast for Windows.

When RICOH Monitor Multicast for Windows starts, the search for RICOH Monitors in the same network starts and the list of such is displayed.

3. Click [Connect] of the RICOH Monitor that you want to connect.



A maximum of 32 RICOH Monitors can be selected.

How to connect wirelessly using a group

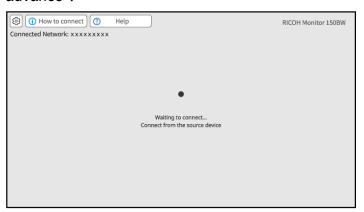
You can register multiple RICOH Monitors in one group, and connect wirelessly in bulk as a group. You can manually connect a device to the group. For details about how to specify a group, see page 76 "Specifying a RICOH Monitor group for connection".

1. Turn ON all RICOH Monitors to be used and confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see page 29 "Turning On and Off the Power".

For details about how to set the Switching Input to Wireless Connection, see page 31 "Switching Inputs".

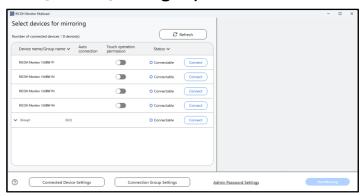
For details about how to automatically switch to the Waiting to connect... screen when turning on RICOH Monitor, see page 71 "Specifying auto connection in advance".



2. Start RICOH Monitor Multicast for Windows.

When RICOH Monitor Multicast for Windows starts, the search for RICOH Monitors in the same network starts and the list of such is displayed.

3. Click [Connect] of the group name to connect.



A maximum of 32 RICOH Monitors can be selected.

Sharing the Windows screen

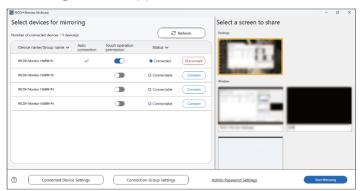
1. Click the Windows screen to be shared from "Select a screen to share".

The screen to be shared can be selected from the Windows desktop or a window (e.g. application) to be used.

The screen to be shared can be changed at any time.



2. An orange frame appears on the selected screen.

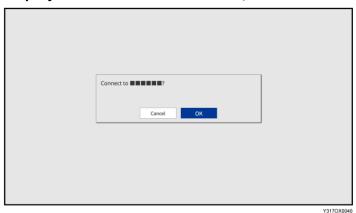


3. Click [Start Mirroring].

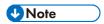
When the communication from RICOH Monitor Multicast for Windows to each RICOH Monitor is successful, a message appears on each RICOH Monitor to confirm whether the connection is allowed or not.

If the device to be connected is already registered in the Connection list of RICOH Monitor, the message whether the connection is allowed or not is not displayed.

4. Confirm the name of the Windows device to be connected with the message displayed on each RICOH Monitor, and then touch [OK].



The sharing is started.

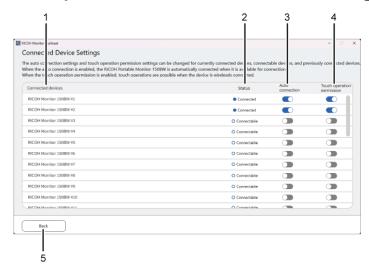


By registering the information of a device in the Connection list, it can be connected
to this machine without having to allow the connection on the device. For details,
see page 101 "Connection List".

Specifying RICOH Monitors to be connected

In the "Connected Device Settings" screen, you can change the auto connection setting and the touch operation permission setting of listed RICOH Monitors of the Connectable devices list.

Description of the Connected Device Settings screen



1. Connectable devices

Displays the names of currently connected RICOH Monitors, connectable RICOH Monitors, and previously connected RICOH Monitors

2. Status

Displays the connection status of RICOH Monitors

3. Auto connection

Toggles the auto connection enable / disable

When specifying the auto connection to enable, the connectable RICOH Monitors start to wirelessly connect to the device.

4. Touch operation permission

Toggles the touch operation or stylus pen operation permission enable / disable If you want to permit touch operations and stylus pen operations on a RICOH Monitor, toggle on "Touch operation permission" of the RICOH Monitor you want to give the permission.

The touch operation permission is given.

5. **[Back]**

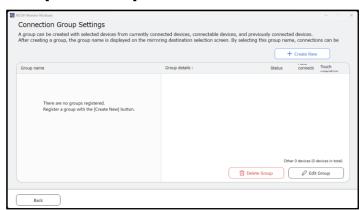
Returns to the "Select devices for mirroring" screen

Specifying a RICOH Monitor group for connection

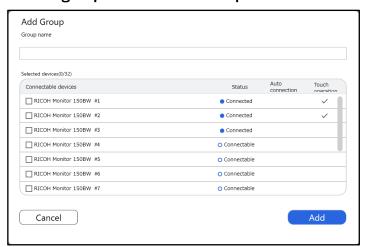
You can create a group by selecting RICOH Monitors from currently connected RICOH Monitors, connectable RICOH Monitors, and previously connected RICOH Monitors. After a group is created, the group name is displayed in the "Select devices for mirroring" screen, and you will be able to manually connect the group in batch.

Creating a new group

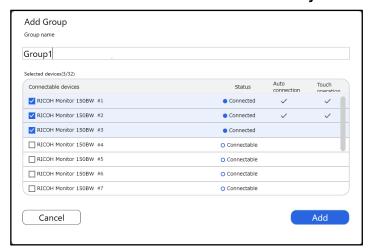
1. Click [Create New].



2. Enter a group name in the "Group name" field.



3. Check the checkboxes of RICOH Monitors you want to group.



4. Click [Add].

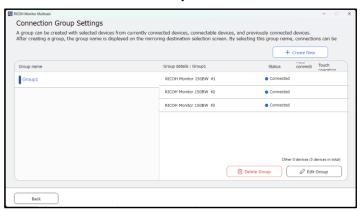
A group is specified.

The created group is displayed on "Device name/Group name" in the "Select devices for mirroring" screen.

Editing the created group

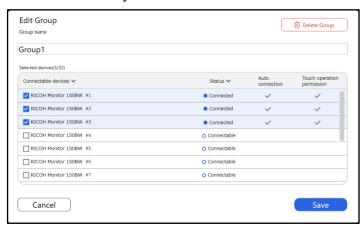
You can change the group name and adding RICOH Monitors belonging the created group.

1. In the "Connection Group Settings" screen, click the group name you want to edit, and then click "Edit Group".



2. Edit the group.

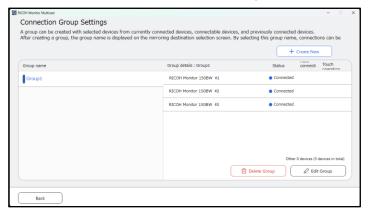
- When editing the group name, enter a new group name in the "Group name" field.
- When adding other RICOH Monitors to this group, check the checkboxes of RICOH Monitors you want to add.
- When deleting the RICOH Monitors from this group, uncheck the checkboxes of RICOH Monitors you want to delete.



3. Click [Save].

Deleting the group

1. In the "Connection Group Settings" screen, click the group name you want to delete, and then click [Delete Group].



2. A confirmation screen will be displayed, then click [OK].

The group is deleted.

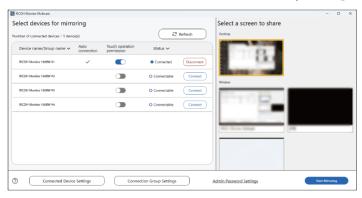
The deleted group will be also removed from the "Device name/Group name" list in the "Select devices for mirroring" screen.

Specifying authentication by the admin password

When you specify authentication by the admin password, the entry of a password is required to open the "Connected Device Settings" screen and the "Admin Password Settings" screen. This setting prevents those who are not the administrator from changing the settings of connected devices.



- Once you set the authentication by password, the settings cannot be cancelled.
- The password cannot be issued again. If you forget the password, uninstall the application, and then install it again. Note that when you uninstall the application, its saved data will be deleted, and cannot be restored.
- 1. In RICOH Monitor Multicast for Windows, click [Admin Password Settings].



2. Enter a password in the "Password" field.

Specify a password using 10 to 64 single-byte alphanumeric characters.



- 3. In the "Confirm password" field, enter the password you entered in step 2 again.
- 4. Click [OK].

Using the Application to Connect to RICOH Monitor Automatically (Windows)

Use RICOH Monitor Auto Cast for Windows to connect the machine directly to a device using Wi-Fi Direct without going through an access point.



• The device to be connected must support Miracast.

Using RICOH Monitor Auto Cast for Windows to Connect

Installing RICOH Monitor Auto Cast for Windows



- Applying the latest security patches to the OS of the device can reduce security risks. Make sure that the OS of the device on which the application is to be installed has the latest security patches and update them, as necessary.
- RICOH Monitor Auto Cast for Windows is an application that wirelessly connects Windows computers and RICOH Portable Monitor 150BW. When you combine this application with other devices, the operation is not guaranteed.

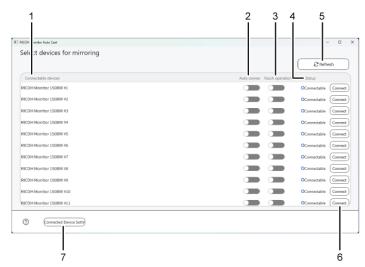
Download RICOH Monitor Auto Cast for Windows from the RICOH website, and then install it on Windows you will use.

Confirm that the firmware of this machine is up to date. If the firmware version is not up to date, update the firmware to the latest version. For details about the firmware, see page 101 "Firmware".

Connecting

When this machine is turned ON, it enters the standby state for connection, and the connecting operation is performed from the device side. Once the connection is accepted by this machine, a wireless connection will be established. Even if Switching Input is set to USB ports, wireless connection can be established when the connecting operation is performed from the device side. When specifying the auto connection, the connectable RICOH Monitors start to wirelessly connect to the device.

Description of the RICOH Monitor Auto Cast for Windows screen



1. Connectable devices

Displays the names of currently connected RICOH Monitors, connectable RICOH Monitors, and previously connected RICOH Monitors

2. Auto connection

Toggles the auto connection enable / disable

When specifying the auto connection to enable, the connectable RICOH Monitors start to wirelessly connect to the device. Only one RICOH Monitor can communicate at a once.

You can set the auto connection in "Connected Device Settings". For details, see page 84 "Specifying RICOH Monitors to be connected".

3. Touch operation permission

Toggles the touch operation or stylus pen operation permission enable / disable.

The permitted RICOH Monitor can be changed at any time.

You can also set the touch operation permission in "Connected Device Settings". For details, see page 84 "Specifying RICOH Monitors to be connected".

4. Status

Displays the connection status of RICOH Monitors

5. [Refresh]

Refreshes the connection status of RICOH Monitors

6. [Connect] / [Disconnect]

When you want to connect a connectable RICOH Monitor or disconnect a currently connected RICOH Monitor, click these buttons.

When you manually disconnect a RICOH Monitor for which the auto connection is enabled, the RICOH Monitor will be automatically connected again.

If you want to prevent the RICOH Monitor from being connected again, perform any of the following operations:

- · Quit this application
- Disable the auto connection, and then disconnect
- Turn OFF the power of the RICOH Monitor

7. [Connected Device Settings]

When you want to change the auto connection setting and touch operation permission setting for currently connected RICOH Monitors, connectable RICOH Monitors, and previously connected RICOH Monitors, click this button. For details, see page 84 "Specifying RICOH Monitors to be connected".

Specifying auto connection in advance

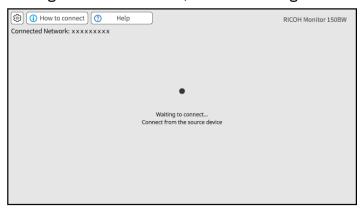
You can specify the setting so that a wireless connection is established automatically when you turn ON a RICOH Monitor and start RICOH Monitor Auto Cast for Windows.

1. Turn ON the RICOH Monitor you will use, and then confirm that the Waiting to connect... screen is displayed.

For details about how to turn ON the machine, see Turning On and Off the Power.

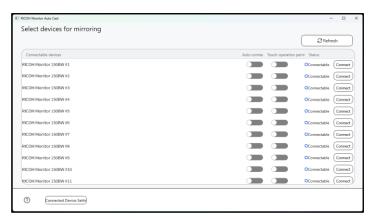
For details about how to set the Switching Input to [Wireless Connection], see Switching Inputs.

For details about how to automatically switch to the Switching Input screen when turning on RICOH Monitor, see Connecting.



2. In Windows, start RICOH Monitor Auto Cast for Windows.

When RICOH Monitor Auto Cast for Windows starts up, a search for RICOH Monitors in the surroundings starts, and then a list appears.



3. Toggle on "Auto connection" of a RICOH Monitor for which you want to specify auto connection.

To enable the touch operation permission, toggle "Touch operation permission" on.

You can also specify the auto connection and the touch operation permission in "Connected Device Settings". For details, see page 84 "Specifying RICOH Monitors to be connected".

When disconnecting the auto connection

When the auto connection is enabled, the connection is established again regardless of whether you disconnect from the RICOH Monitor side or this application. To disconnect the auto connection, perform any of the following operations:

- · Quit this application
- Disable the auto connection, and then disconnect
- Turn OFF the power of the RICOH Monitor

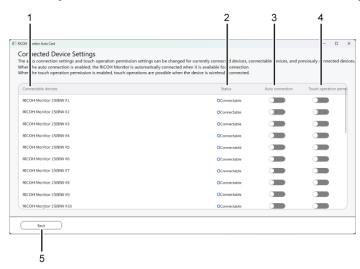


 After the connection process starts, the time required for the screen in the connecting status to switch to the connected screen might take about two minutes.
 In that case, please wait until the screen changes.

Specifying RICOH Monitors to be connected

In the "Connected Device Settings" screen, you can change the auto connection setting and the touch operation permission setting of listed RICOH Monitors of the Connectable devices list.

Description of the Connected Device Settings screen



1. Connectable devices

Displays the names of currently connected RICOH Monitors, connectable RICOH Monitors, and previously connected RICOH Monitors

2. Status

Displays the connection status of RICOH Monitors

3. Auto connection

Toggles the auto connection enable / disable

When specifying the auto connection to enable, the connectable RICOH Monitors start to wirelessly connect to the device. Only one RICOH Monitor can communicate at a once.

4. Touch operation permission

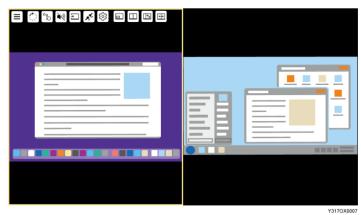
Toggles the touch operation or stylus pen operation permission enable / disable The permitted RICOH Monitor can be changed at any time.

5. **[Back**]

Returns to the "Select devices for mirroring" screen

Things You Can Do on the Connecting Screen

This section describes the functions available on the Connecting screen.

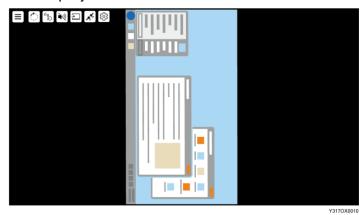


Rotating the Screen

You can rotate the screen display of this machine according to the size of the screen of the connected device or the usage purpose of this machine.

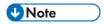
1. Touch [Screen Rotation] (()).

The displayed screen rotates 90° clockwise.



Touch [Screen Rotation] (△) to change the screen orientation as needed.

Touch [Screen Rotation] () four times to return to the original display.



• The menu orientation does not change when the screen is rotated.

Displaying the Touched Traces

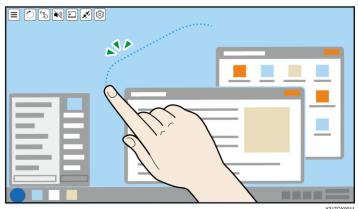
You can display the traces of touch operation or stylus pen operation.

5

1. Touch [Touch Trace] (5).

The icon display turns to , and the Touch Trace turns ON.

The touched trace is displayed as a dotted line.



The trace display disappears after two seconds.

2. To turn OFF the Touch Trace, touch [Touch Trace] (5) again.

Muting Sound

You can mute the sound temporarily.

1. Touch [Sound] (1).

2. To turn it OFF, touch [Sound] (№) again.

When connected to two devices

You can mute the sound on the two displayed screens individually.

- 1. Touch the screen that you want to mute the sound for so as to make it the active screen.
- 2. Touch [Sound] (1).

The sound mute is turned ON for the active screen only, and the sound on the inactive screen is played back.

- 3. To turn sound mute ON for both screens, repeat steps 1 and 2.
- 4. To turn it OFF, touch the screen for which sound mute was turned ON so as to make it the active screen, and then touch [Sound] (►) again.

Disabling Screen Display/Sound/Touch Operation Temporarily

You can temporarily disable screen display/sound/touch operation (stylus pen operation).

When Mute AV is turned ON, the following states are set, respectively:

- Screen display: Hidden
- Sound: Mute
- Touch operation (stylus pen operation): Inoperable
- 1. Touch [Mute AV] (=).

The icon display turns to , and screen display/sound/touch operation (stylus pen operation) is disabled.



2. To restore the original settings, touch [Mute AV] (□) again.

Disconnecting

You can disconnect the wireless connection.

For details, see page 92 "Ending a Connection".

Settings

You can display the Settings screen and check the settings related to the wireless connection.

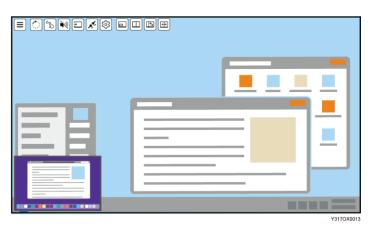
For details, see page 97 "Changing Wireless Connection Settings".

Displaying the Sub-screen

When connected to two devices, you can display the active screen at the size of a single screen display, with the inactive screen at a smaller sub-screen.

1. Touch [Sub-screen] (
).

The icon display turns to , and the inactive screen is displayed on the sub-screen.



2. To finish the sub-screen display, touch [Sub-screen] () again.



- When both the sub-screen and the split screen are turned OFF, only the active screen is displayed.
- If the sub-screen is turned ON while the split screen is ON, the split screen is automatically switched to OFF.

Switching sub-screens

1. Touch the sub-screen.

The screen displayed on the sub-screen becomes the active screen, and the display is switched.

Changing the display size of the sub-screen

1. Touch the sub-screen with two fingers and spread or pinch them together.



Enlarging
 Increase the distance between the two fingers.

• Reducing

Shorten the distance between the two fingers.

Changing the display position of the sub-screen

1. Touch and hold the sub-screen and move it in the desired direction.

The display position of the sub-screen is fixed to the four corners of the screen.

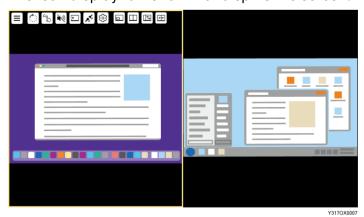
The display position of the sub-screen is changed to the corner of the screen closest to the position where the sub-screen was moved.

Splitting the Screen

You can split the screen to display two screens when two devices are connected.

1. Touch [Split Screen] (□).

The icon display turns to
and splits the screen.



2. To finish the splitting screen display, touch [Split Screen] () again.



- When both the sub-screen and the split screen are turned OFF, only the active screen is displayed.
- If the split screen is turned ON while the sub-screen is ON, the sub-screen is automatically switched to OFF.

Switching the split position

You can switch the split position of the screen in three levels when the split screen is turned ON.

1. Touch [Change Split-Position] (🖹).

The split position of the screen switches.

Touch [Change Split-Position] () to change the split position, as necessary.

Touching [Change Split-Position] () three times returns the screen to the original split position.

Switching the screen placement

You can swap the screens when the split-screen is turned ON.

1. Touch [Swap Screens] ().

The placement of the two screens is switched.

Ending a Connection

Disconnecting from This Machine

1. Touch [Disconnect] (₺) on the Connecting screen.



The connection is disconnected.

Depending on the OS or application used, a disconnection message might appear on the device side. Close the message or close the application according to the displayed content.

When using RICOH Monitor Mirroring for iOS, after tapping [OK] in the message, a screen broadcast appears. Tap [Stop Broadcast].

Disconnecting from a Device

Disconnecting from Windows

- 1. Display the Connect/Cast screen in Windows.
 - When using Windows 10
 - Click the Action Center icon on the right end of the taskbar.
 The Action Center appears.
 - 2. Click [Connect].

When using the shortcut keys, press the "Windows logo key" (Start key) and the "K" key on the keyboard at the same time.

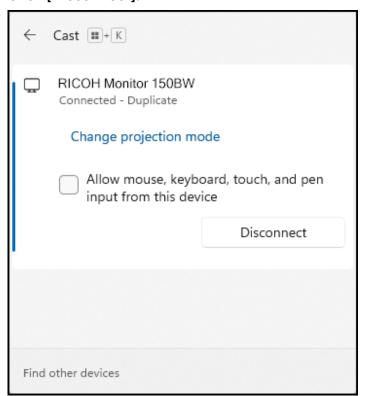
- When using Windows 11
 - 1. Click the Network, Volume, or Battery icon on the taskbar. Quick Settings appears.

2. Click [Cast].

If [Cast] does not appear, click the Edit Quick Settings icon (pen icon) in Quick Settings, and then click [Add] and select [Cast].

When using the shortcut keys, press the "Windows logo key" (Start key) and the "K" key on the keyboard at the same time.

2. Click [Disconnect].

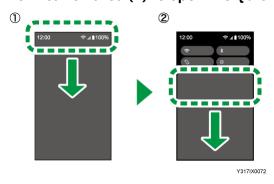


The disconnection message is displayed on the machine and the Waiting to connect... screen appears.

Disconnecting from Android

This section uses Android 12 as an example of the procedure.

1. Swipe down from the top of the Android screen (1), and then swipe down the notification area (2) to open the Quick Settings panel.



Depending on the version of Android, the Quick Settings panel can be displayed by swiping down from the top of the screen.

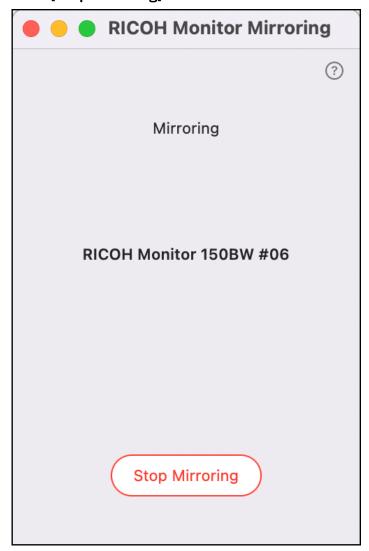
2. Tap [Stop Casting] or [Disconnect].

Button names could differ depending on the version and model of Android used.

The disconnection message is displayed on the machine and the Waiting to connect... screen appears.

Disconnecting from RICOH Monitor Mirroring for macOS

1. Click [Stop Mirroring].



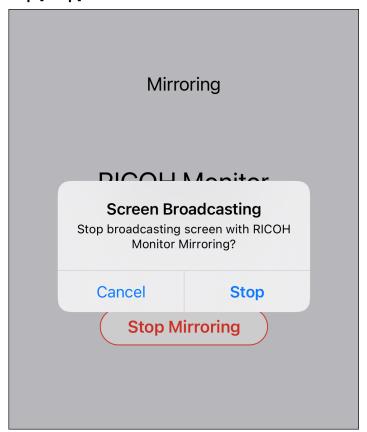
The disconnection message is displayed on the machine and the Waiting to connect... screen appears.

Disconnecting from RICOH Monitor Mirroring for iOS

1. Tap the red indicator at the top of the iOS screen or display the RICOH Monitor Mirroring for iOS screen and then tap [Stop Mirroring].



2. Tap [Stop].



The disconnection message is displayed on the machine and the Waiting to connect... screen appears.

Disconnecting from RICOH Monitor Multicast for Windows

1. Click [Stop Mirroring].



The disconnection message is displayed on each RICOH Monitor, and the Waiting to connect... screen is displayed.

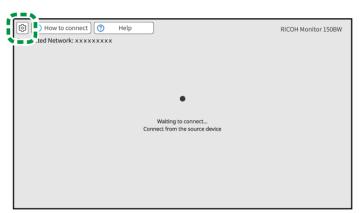
When the connection is disconnected from the RICOH Monitor side and when there is no more connected RICOH Monitor, it switches to stop mirroring automatically.

Changing Wireless Connection Settings

Displaying the Settings Screen



- When the [Settings] screen is displayed from the [Connecting...] screen, you can change only the settings of [Dev.Info/Setting] and [Connection list]. However, you cannot change the device name.
- 1. Touch the Settings (⊚) on the Waiting to connect... screen or the Connecting to... screen.



The Settings screen is displayed.



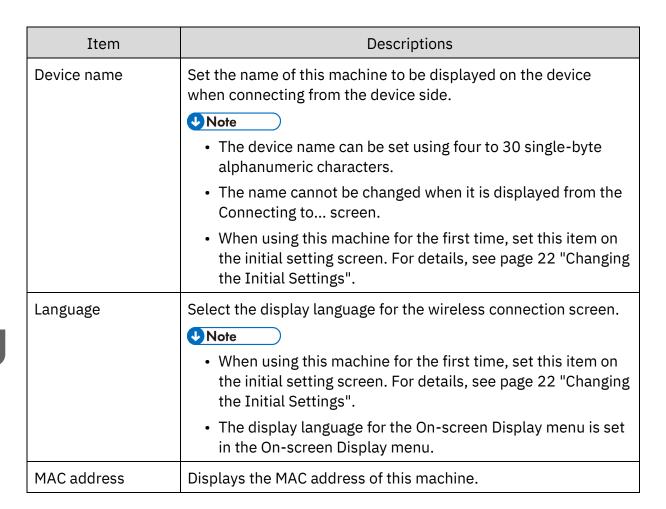
2. Touch the icon of the item that you want to change, and then change the settings.

Dev.Info/Setting

You can check the information pertaining to this machine, and you can change the detailed settings of the wireless connection.

Important

• The device name cannot be changed when the Settings screen is displayed from the Connecting to... screen.



Advanced wireless connection setting

Item	Descriptions	
2 dev. simul. connection by OS func.	Select whether or not to connect this machine to two devices at the same time when you directly connect this machine to a device using the OS function.	
	Selecting "Do not allow" may enable wireless connections between this machine and the device, which prohibits connections other than to a specific access point.	
	• Allow	
	You can directly connect this machine to two devices using the OS functions.	
	• Do not allow	
	When directly connecting this machine to a device using the OS function, you can connect only one device.	

Item	Descriptions
	♦ Note
	 When using RICOH Monitor Mirroring for macOS or RICOH Monitor Mirroring for iOS to connect to devices in the same network, you can connect to two devices regardless of the settings in this item.
	If you select "Do not allow", the setting for "Wi-Fi frequency bands when using OS function" becomes unavailable.
	■ Reference
	page 54 "Connecting with Windows"
	page 57 "Connecting with Android"
Conn. using OS func. during conn. using app	Select whether or not to use the OS function to connect a second device while connecting to a device in the same network using RICOH Monitor Mirroring for macOS or RICOH Monitor Mirroring for iOS.
	Selecting "Do not allow" prevents the application from degrading connection performance.
	• Allow
	You can connect to a second device in the following ways:
	 Connection using RICOH Monitor Mirroring for macOS or RICOH Monitor Mirroring for iOS
	Connections using OS functions
	• Do not allow
	You can only connect the second device by using RICOH Monitor Mirroring for macOS or RICOH Monitor Mirroring for iOS.
	Reference
	 page 61 "Connecting with RICOH Monitor Mirroring for macOS"
	page 63 "Connecting with RICOH Monitor Mirroring for iOS"
Wi-Fi frequency bands when using OS function	Select the frequency to be used when connecting the device directly to this machine using the OS functions. Make the switch according to the specifications of the device to be connected and the wireless environment.
	• 2.4GHz
	• 5GHz

Item	Descriptions	
	₩Note	
	 If you select "Do not allow" for "2 dev. simul. connection by OS func.", this setting becomes unavailable because the device selects the frequency. 	
	■ Reference	
	page 54 "Connecting with Windows"	
	 page 57 "Connecting with Android" 	

Wi-Fi

You can change the network settings.



• This setting cannot be changed when displayed from the Connecting to... screen.

Item	Descriptions		
Connected Network	Displays the networks to which this machine is connected		
IP address	Displays the IP address of this machine on the connected network		
Select network	Displays a list of available wireless networks		
	You can select the network that you want to connect to from the list.		
Network	Displays the network you selected in "Select network"		
	To connect to a network by specifying the SSID directly, enter the SSID in the entry field.		
Password	Enter the password for the network selected in "Select network".		
Auto-connect to saved networks	Select whether or not to automatically connect to a network saved on this machine when it is detected.		
Saved Networks	Displays a list of settings for networks that have been connected in the past and stored on this machine		
	To delete a saved network, check the checkbox of the network that you wish to delete and touch [Delete].		

Item	Descriptions
	 Note A maximum of eight network settings are saved. If eight network settings have already been saved, the oldest network setting will be deleted first.

Connection List

You can manage connected devices.

Item	Descriptions	Defaul t
Register to cxn list	Select whether or not to register the devices connected wirelessly to this machine in the Connection list. • ON	ON
	Devices connected to this machine via a wireless connection will be registered in the Connection list.	
	Devices registered in the Connection list can connect to this machine without connection confirmation next time.	
	• OFF	
	The device is not registered in the Connection list.	
	The device must confirm the connection with this machine each time it connects.	
Connection list	Displays a list of devices that have been connected in the past and stored on this machine	ı
	To delete a saved device, check the checkbox for the device name that you want to delete and touch [Delete].	
	₩Note	
	 Deleted devices must be confirmed by this machine the next time they are connected. 	
	 Up to eight devices can be saved. If eight devices have already been saved, the oldest device will be deleted first. 	

Firmware

You can check and update the firmware version related to the wireless connection.

Firmware updates are performed from the computer side by connecting to the computer with the supplied USB Type-C cable.



- The latest firmware includes security patches. Always update the firmware of this machine to the latest version.
- When displayed from the Connecting to... screen, you cannot operate the firmware screen.
- Do not turn OFF the power of this machine while updating.
- Do not disconnect the USB Type-C cable connecting this machine to a computer during an update.
- Do not connect a device such as a computer or smartphone to USB port 2.
- Do not operate the Switching Input/Back button on this machine during updating.
- 1. Download the RICOH Monitor 150BW Firmware Updater to the computer used for the firmware update.
- 2. Touch [Firmware] ()



3. Touch [OK].

If you only want to check the current firmware version, touch [Back].

- 4. Connect the USB Type-C cable connected to the USB port 1 of this machine to the computer.
- 5. Start the RICOH Monitor 150BW Firmware Updater downloaded in step 1.
- 6. Select the language to be displayed, and then click [Next].

When the computer and this machine are connected, the current firmware version and the firmware version to be updated are displayed.

7. Confirm the firmware version, and then click [Next].

To cancel the update, click [Cancel].

8. Click [OK].

The firmware update starts.

Do not turn OFF the power of this machine or remove the USB Type-C cable while the update is in progress.

9. When the update is complete, click [Close].

This machine reboots automatically.

Reset

You can initialize the settings of this machine.

The settings to be initialized are as follows:

- Settings for Dev.Info/Setting
- Settings for Wi-Fi
- Settings for Connection list



• Operation is not possible when displaying from the Connecting screen.

1. Touch [Reset] (O).



2. Touch [OK].

A confirmation message is displayed.

3. Touch [OK].

When the initialization is complete, this machine reboots automatically.

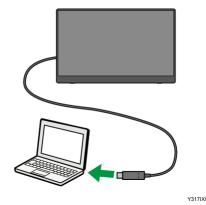
6. Charging

Charging a Device Connected to This Machine (Pass-through Charging)

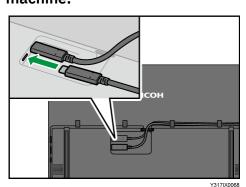
You can charge a device such as a computer or smartphone connected to this machine using a commercially available USB PD charger and a commercially available USB Type-C cable (pass-through charging).



- When using a commercially available USB PD charger, be sure to use one specifically for USB Type-C. Use of adapters/chargers or conversion connectors for other USB standards could cause this machine to malfunction.
- It is recommended to use a USB PD charger with a maximum output of 45 W.
- This machine has a maximum output of 25 W. Therefore, pass-through charging is available for devices that can be used with the power of 25 W or less.
- 1. Connect the supplied USB Type-C cable connected to the USB port of this machine to the device that you want to charge.

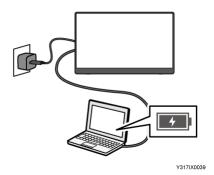


2. Connect a commercially available USB Type-C cable to the USB port of this machine.



- 3. Connect the USB Type-C cable to the USB PD charger.
- 4. Plug the USB PD charger into a power outlet.

The device starts charging.



5. When charging of the device is complete, unplug the USB PD charger from the power outlet and remove the USB Type-C cable connected to this machine.

6

Charging This Machine (150BW Model Only)

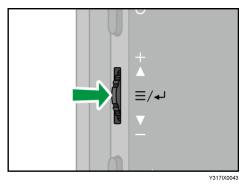
A low battery limits the functions of this machine that can be used.

Check the remaining battery level periodically and charge this machine, as necessary.

Checking the Remaining Battery Level

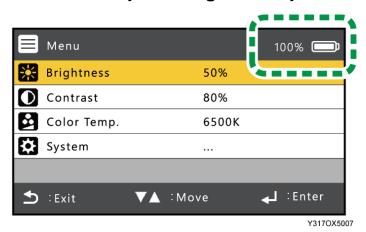
The remaining battery level can be checked in the On-screen Display menu.

1. Press the center of the Menu/Select/Enter button.



The On-screen Display menu is displayed.

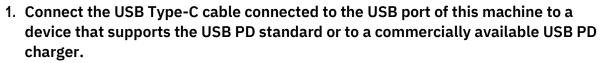
2. Check the battery level using the battery icon and remaining battery level display.

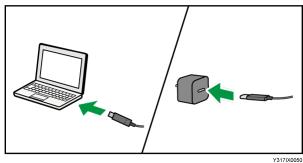


Charging

Important

 When using a commercially available USB PD charger, be sure to use one specifically for USB Type-C. Use of adapters/chargers or conversion connectors for other USB standards could cause this machine to malfunction.



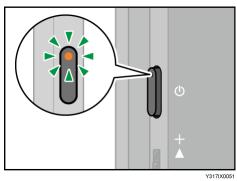


2. When connected to a device that supports the USB PD standard, make sure that the device is ready to supply power. When connected to a USB PD charger, plug the USB PD charger into an outlet.

This machine starts charging.

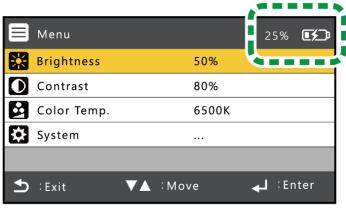
The charging status can be checked as follows:

When this machine is turned OFF
 The power LED is lit orange while charging.



· When this machine is turned ON

The battery icon in the On-screen Display menu shows the charging status.

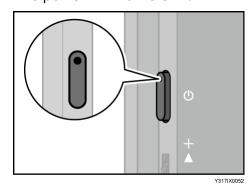


Y317OX5008

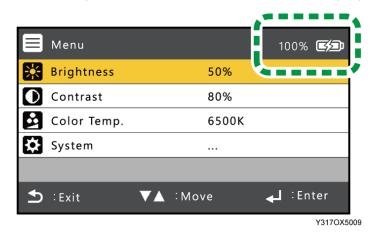
3. When charging is complete, remove the USB Type-C cable from the device. If using a USB PD charger, unplug the USB PD charger from the power outlet.

To check when charging is complete:

When this machine is turned OFF
 The power LED turns OFF.



When this machine is turned ON
 The battery level indicator in the On-screen Display menu shows 100%.



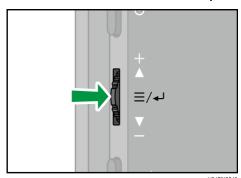
7. Changing Settings

This section describes how to operate the On-screen Display menu and its menu items.

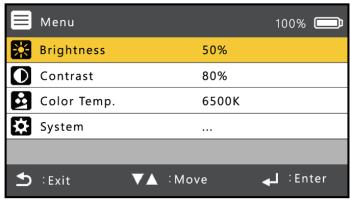
Operating the On-screen Display Menu

You can change the screen brightness, contrast, color temperature, and other settings in the On-screen Display menu.

1. Press the center of the Menu/Select/Enter button.

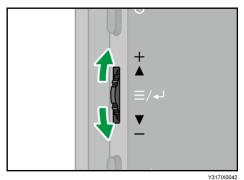


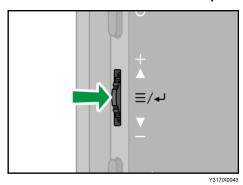
The On-screen Display menu is displayed.



Y317OX0030

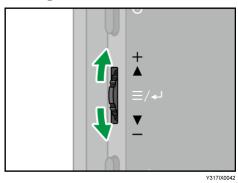
2. Slide the Menu/Select/Enter button up or down to select an item.



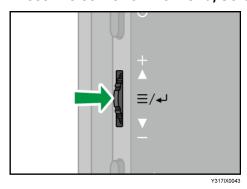


Changing "Brightness", "Contrast", or "Color Temp." from the factory default settings can increase the power consumption of this machine. A message appears when the relevant setting is displayed for the first time. If you agree with the contents of the message, press the center of the Menu/Select/Enter button.

- 4. Repeat steps 2 and 3 as necessary to display the items that you want to change.
- 5. Slide the Menu/Select/Enter button up or down to select a setting or adjust a setting value.



6. Press the center of the Menu/Select/Enter button to confirm the change.

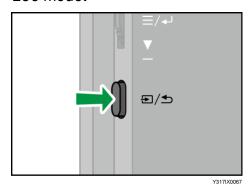


7. Press the Switching Input/Back button to return to the previous display. Press the Switching Input/Back button multiple times to return to the top of the On-

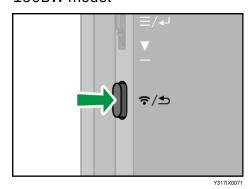
7

screen Display menu, and then press the Switching Input/Back button again to close the On-screen Display menu.

• 150 model



• 150BW model

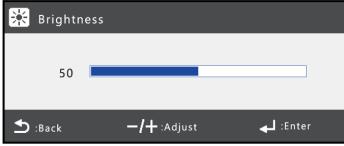


Setting Items in the On-screen Display Menu



 When the message Low power mode appears, this machine is connected to a power source with an output of less than 15 W and the setting values of the setting items are restricted. To change the setting values, connect this machine to a device that supports the USB PD standard with an output of 15 W or more or to a USB PD charger. For details about the message, see page 117 "If a Message is Displayed during Operation".

Brightness



Y317OX0031

Adjusts the screen brightness

Contrast

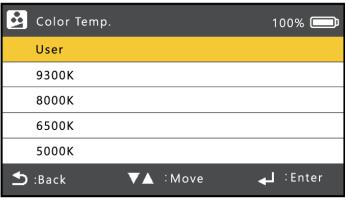


Y317OX0032

Adjusts the screen contrast

7

Color Temp.



Y317OX0033

Adjusts the color temperature

• 9300K

Displays images in a bluish tone

• 8000K

Displays images in a natural tone

• 6500K

Displays images in a reddish tone

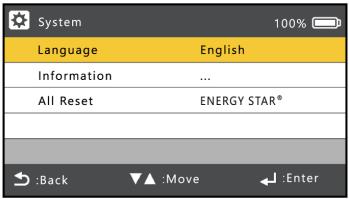
• 5000K

Adjusts the tone to reduce the amount of blue light, which is harmful to the eyes

User

The RGB values can each be adjusted.

System



Y317OX0034

Language

Sets your preferred language for the On-screen Display menu

Information

Displays the software version and operating hours of this machine

All Reset

Initializes all settings in the On-screen Display menu

After initialization, when the "Brightness", "Contrast", "Color Temp.", or "Volume" settings of this machine is/are first displayed, a message regarding the increased power consumption of this machine will be displayed again.

8. Troubleshooting

This chapter explains what to do when a message is displayed or when the machine cannot be operated as wanted.

If a Message is Displayed during Operation

The following table lists the main messages and their recommended actions.



 Check the model name of this machine to be used and check the description of the corresponding model name. For details about how to check the model name, see page 3 "About the Model Names of this Machine".

Messages Related to Errors

150 model

Message	Causes	Solutions
An internal power error has occurred. Refer to the instruction manual.	An error has occurred in the machine's internal power supply.	Perform the following steps to clear the error. If the error is successfully cleared, the message will no longer appear.
mstruction manuat.		If the message reappears, unplug all cables and stop using this machine immediately.
		Remove all USB Type-C cables connected to this machine.
		 Connect this machine to a device that supports the USB PD standard or to a USB PD charger with a USB Type-C cable.
		 Check if the message is displayed when this machine starts up.

Message	Causes	Solutions
An internal power error has occurred. Refer to the instruction manual.	An error has occurred in the machine's internal power supply.	Perform the following steps to clear the error. If the error is successfully cleared, the message will no longer appear.
		If the message reappears, unplug all cables and stop using this machine immediately.
		Remove all USB Type-C cables connected to this machine.
		Press and hold the power button for more than 10 seconds.
		3. Check that the power LED is lit orange.
		Press the power button to check that this machine does not start up.
		5. Connect this machine to a device that supports the USB PD standard or to a USB PD charger with a USB Type-C cable.
		6. Check if the message is displayed when this machine starts up.

Messages Related to the Battery

Message	Causes	Solutions
Battery power is low. Connect to power.	 The remaining battery charge is 15%. 	Connect this machine to a USB PD charger.

Message	Causes	Solutions
	The remaining battery charge is below 15% when this machine is started up.	
Wireless connection cannot be used due to low battery. Connect to power.	This machine is connected to a power source with an output of less than 20 W and remaining battery power of less than 2%.	Connect this machine to a USB PD charger with an output of 20 W or more.
Shutting down due to low battery. Connect to power.	The battery level is below 2%.	Connect this machine to a USB PD charger.

Messages Related to the On-screen Display Menu

150 model

Message	Causes	Solutions
Low power mode [0-25]	This machine is operating in low power mode because it is connected to a power supply with an output of less than 15 W.	Connect this machine to a device that supports the USB PD standard or a USB PD charger with an output of 15 W or more.
	The machine is operating in low-power mode due to insufficient power supply, as the machine is designed to operate like this with pass-through power from a connected device.	This is normal.

Message	Causes	Solutions
Low power mode [0-25]	This machine is operating in low-power mode because it is connected to a power source with an output of less than 15 W and the remaining battery power is less than 2%.	Connect this machine to a device that supports the USB PD standard or a USB PD charger with an output of 15 W or more.

Message	Causes	Solutions
	When pass-through charging is being performed on a device connected to a power source with an output of less than 15 W, this machine is operating in low-power mode to match the power specifications of the device being powered.	 Connect this machine to a device that supports the USB PD standard or a USB PD charger. This is normal.
Low power mode [mute]	This machine is operating in low-power mode because it is connected to a power source with an output of less than 15 W and the remaining battery power is less than 2%.	Connect this machine to a device that supports the USB PD standard or a USB PD charger with an output of 15 W or more.
Power consumption may increase when screen settings are changed.	This displays the on- screen device menu that can increase the power consumption of this machine by changing the factory default settings.	If you accept the increased power consumption, press the center of the Menu/Select/Enter button to select [OK]. Display the On-screen Device menu again to change the setting. If the increase in power consumption is not acceptable, press the Switching Input/Back button.

Messages Related to Screen Display

150/150BW model

Message	Causes	Solutions
No Video Input	No video input from USB ports 1 and 2	Connect the device to this machine with a USB Type-C cable for video input.

Messages Related to Wireless Connection

Message	Causes	Solutions
Failed to connect. Try again.	Wireless connection to the device failed.	 Check that there are no devices in the surroundings that generate radio waves that could interrupt wireless communication, and then try the wireless connection again. Reboot this machine and the device, and then retry the wireless connection.
**** (source device name) was disconnected.	The connection to the device has been disconnected.	 Check that there are no devices in the surroundings that generate radio waves that could interrupt wireless communication, and then try the wireless connection again. Check whether the device is executing a high-load process.
Cannot rename device while connecting. Disconnect and set up again.	During the wireless connection, you touched the "Device name" entry field on the Dev.Info/Setting screen.	Change the device name of this machine after disconnecting the wireless connection with the device. ⇒page 97 "Dev.Info/Setting"
Enter a device name using 4 to 30 characters.	A 0–3 character device name was attempted to be set when changing the device name of this machine.	The device name for this machine must be at least four characters long. ⇒page 97 "Dev.Info/Setting"

Message	Causes	Solutions
Cannot change network while connecting. Disconnect and set up again.	Wi-Fi screen was displayed during wireless connection.	Disconnect the wireless connection to the device before connecting to the network or changing networks. ⇒page 100 "Wi-Fi"
Failed to connect. Please connect again.	Network connection failed.	Check that there are no devices in the surroundings that generate radio waves that could interrupt wireless communication, and then try the wireless connection again.
Password does not match. Enter the password again.	The password entered does not match the password registered at the access point.	Enter the correct password, and then try to reconnect to the network. ⇒page 100 "Wi-Fi"
Enter a password using 8 to 63 characters.	A password was entered using 0–7 characters.	Enter the correct password and then try to reconnect to the network. ⇒page 100 "Wi-Fi"
Connecting Cannot update firmware. Try again after canceling the connection.	A firmware update screen was displayed during wireless connection.	Disconnect the wireless connection to the device before performing the firmware update. ⇒page 101 "Firmware"
Connecting Disconnect to reset.	A reset screen was displayed during wireless connection.	Disconnect the wireless connection to the device before resetting the settings of this machine. ⇒page 103 "Reset"

Message	Causes	Solutions
Not connected to the network.	The device you are using is not connected to the network.	Connect the device to the network.
RICOH Monitor was not found. Check that RICOH Monitor and PC are connected to the same network, and try connecting again.	 This machine is not connected to the network. This machine and the device are not connected to the same network. 	 Connect this machine to the network. Connect this machine and the device to the same network (same subnet).
Failed to connect the device. Check the status of the device, and try connecting again.	 The network signal condition is poor. The network is busy. 	Check the network status and reconnect.
Please allow screen recording and try again.	Screen recording is not allowed for the application. (macOS only)	Perform the following steps to allow screen recording for the application: 1. Click [Privacy & Security]. 2. Check the application in [Screen Recording].
The connection with **** (name of this machine) has been lost.	 This machine has been turned OFF. This machine or device has been disconnected from the network. 	 Turn ON the power to this machine. Connect this machine and the device to the same network (same subnet).

8

Messages Related to RICOH Monitor Multicast for Windows

Message	Causes	Solutions
This OS is not supported. Refer to the manual for supported OSs.	You are trying to install RICOH Monitor Multicast for Windows on an unsupported OS.	Install on a compatible OS. ⇒Supported OS, a separately provided manual
There is not enough free space to install the app. Installation requires at least ** MB of free space.	Insufficient computer capacity	Increase the free space by deleting unnecessary files, etc., and then reinstall the software.
The license key is incorrect. Enter the correct license key.	Wrong license code entered	Enter the correct license code.
An unknown error has occurred.	The application file is corrupt.	Reinstall RICOH Monitor Multicast for Windows.
Restart the app. If restarting does not resolve the error, reinstall the app.	An error has occurred in Windows.	Restart your computer.
Failed to get the desktop image.	An error has occurred in RICOH Monitor Multicast for Windows.	Restart RICOH Monitor Multicast for Windows.
Failed to get the window image.	An error has occurred in RICOH Monitor Multicast for Windows.	Restart RICOH Monitor Multicast for Windows.
Not connected to the network.	The device is not connected to the network.	Connect the device to the network.
RICOH Monitor was not found. Check that RICOH Monitor and PC are connected to the same network, and try connecting again.	The device is not connected to the network.	 Connect the device to the network. Connect this machine and the device to the same network (same subnet).

When You Cannot Use the Machine As You Want

This section explains what to do when the machine cannot be operated as you want.

U Note

- Check the model name of this machine to be used and check the description of the corresponding model name. For details about how to check the model name, see page 3 "About the Model Names of this Machine".
- The machine might not operate normally, depending on the connected computer, smartphone, USB PD charger, or cable. For information about the models tested and verified for normal operation, visit our website.

Problems Related to Power Supply

150 model

Problem	Possible cause	Solutions
Power is not turned ON.	-	If this machine is connected to a device that supports the USB PD standard or to a USB PD charger and this machine is turned OFF, this machine does not turn ON automatically even if a new device is connected to it. Press the power button.
	The USB PD charger is malfunctioning.	Replace the USB PD charger.
	Insufficient power is being supplied to this machine from the USB PD charger being used.	Replace with a USB PD charger with an output of 7.5 W or higher.
	There is no function to supply power from the connected device to this machine.	Connect this machine to a USB PD charger.
	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable.

Problem	Possible cause	Solutions
	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	USB Type-A to USB Type-C conversion cable is being used.	This machine cannot be used with a Type-C conversion cable from a USB Type-A port. Use a cable with only USB Type-C cable terminals.
Power is not turned ON.	The screen is switching.	Due to the properties of the OLED panel, the screen displays completely dark at the timing when the black screen is displayed.
		Check the power status of this machine with the power LED.
		⇒page 13 "Component Names and Functions"
Does not start when the power button is pressed	The USB PD charger is malfunctioning.	Replace the USB PD charger.
	Insufficient power is being supplied to this machine from the USB PD charger being used.	Replace with a USB PD charger with an output of 7.5 W or higher.
	There is no function to supply power from the connected device to this machine.	Connect this machine to a USB PD charger.
	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable.
	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	USB Type-A to USB Type-C conversion cable is being used.	This machine cannot be used with a Type-C conversion cable from a USB Type-A port.
		Use a cable with only USB Type- C cable terminals.

Problem	Possible cause	Solutions
	The screen is switching.	Due to the properties of the OLED panel, the screen displays completely dark at the timing when the black screen is displayed.
		Check the power status of this machine with the power LED.
		⇒page 13 "Component Names and Functions"
Turns OFF unintentionally	A sudden load fluctuation has occurred in this machine.	Use lower brightness and volume.
		⇒page 34 "Changing the Volume"
		⇒page 114 "Setting Items in the On-screen Display Menu"
Power repeatedly turning ON and OFF	There is a problem with the combination of this machine and the USB PD charger used.	Replace the USB PD charger, and then reboot this machine.

Problem	Possible cause	Solutions
Power is not turned ON.	-	This machine does not turn ON automatically when a device is connected. Press the power button.
	There is no battery power remaining.	Connect this machine to a device that supports the USB PD standard or to a USB PD charger to charge the battery.
	The USB PD charger is malfunctioning.	Replace the USB PD charger.

Problem	Possible cause	Solutions
	Insufficient power is being supplied to this machine from the USB PD charger being used.	Replace with a USB PD charger with an output of 7.5 W or higher.
	There is no function to supply power from the connected device to this machine.	Connect this machine to a USB PD charger.
	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	The screen is switching.	Due to the properties of the OLED panel, the screen displays completely dark at the timing when the black screen is displayed.
		Check the power status of this machine with the power LED.
		⇒page 13 "Component Names and Functions"
Does not start when the power button is pressed	There is no battery power remaining.	Connect this machine to a device that supports the USB PD standard or to a USB PD charger to charge the battery.
	The USB PD charger is malfunctioning.	Replace the USB PD charger.
	Insufficient power is being supplied to this machine from the USB PD charger being used.	Replace with a USB PD charger with an output of 7.5 W or higher.
	There is no function to supply power from the connected device to this machine.	Connect this machine to a USB PD charger.
	A problem with USB Type-C cable.	Replace the USB Type-C cable.

Problem	Possible cause	Solutions
	The screen is switching.	Due to the properties of the OLED panel, the screen displays completely dark at the timing when the black screen is displayed.
		Check the power status of this machine with the power LED.
		⇒page 13 "Component Names and Functions"

Problems Related to the Battery

Problem	Possible cause	Solutions
Unable to charge	The USB PD charger is malfunctioning.	Replace the USB PD charger.
	Insufficient power is being supplied to this machine from the USB PD charger being used.	Replace with a USB PD charger with an output of 7.5 W or higher.
	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable.
	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	 The battery has malfunctioned. The battery has reached the end of its useful life. 	If the battery cannot be recharged, stop using this machine. Using the battery as-is can cause leakage or fire. Battery life varies depending on conditions and other factors.
	The battery has more than 96% remaining.	Charge the battery when the remaining battery charge is less than 95%.

Problem	Possible cause	Solutions
	USB Type-A to USB Type-C conversion cable is being used.	This machine cannot be used with a Type-C conversion cable from a USB Type-A port.
		Use a cable with only USB Type-C cable terminals.

Problems Related to Pass-through Charging

150/150BW model

Problem	Possible cause	Solutions
Device connected to this machine not working with pass-through charging	The power consumption of the connected device is too high.	Pass-through charging is not possible from this machine.
		Pass-through charging is available only for devices that can be used with a maximum output of 25 W.
	USB PD charger output is insufficient.	Replace with a USB PD charger with an output of at least 20 W and 9 V, 15 V, or 20 V.
	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable.
	A problem with USB Type-C cable.	Replace the USB Type-C cable.

Problems Related to Touch/Stylus Pen Operation

150 model

Problem	Possible cause	Solutions
	The OS or device does not support touch operation.	Check whether the OS or the device supports touch operation.

Problem	Possible cause	Solutions
The machine does not respond when		⇒Supported OS, a separately provided manual
the screen is touched.	There is a problem with the OS driver.	Update the driver for the device.
	There is a problem with the application that you are using.	If the touch operation does not respond only with a specific application, check the application specifications.
Touching with stylus pen is not responsive.	The OS or device does not support stylus pen operation.	Check whether the OS or the device supports touch operation. ⇒Supported OS, a separately provided manual
	There is a problem with the OS driver.	Update the driver for the device.
	The battery in the stylus pen is running out of power.	Check that the battery is properly set.Replace the batteries.
	 No battery is set in the stylus pen. 	⇒Read This First, which comes with the stylus pen.
	 The battery in the stylus pen is not set correctly. 	
	 The cap of the stylus pen is not closed properly. 	
	There is a problem with the application that you are using.	If the touch operation does not respond only with a specific application, check the application specifications.
	The stylus pen is in sleep mode.	If the stylus pen is not used for a certain period of time, it automatically switches to sleep mode.
		Touch the stylus pen to the screen of this machine to cancel sleep mode. Touch the screen again, and the stylus pen will respond.

Problem	Possible cause	Solutions
The function button on the stylus pen is not responding.	The OS or device does not support touch operation.	Check whether the OS or the device supports touch operation. ⇒Supported OS, a separately provided manual
	There is a problem with the application that you are using.	If the touch operation does not respond only with a specific application, check the application specifications.
While using the stylus pen, the device reacts when part of the hand touches the screen.	The connected device does not support palm rejection (a feature that recognizes only the stylus pen touch without reacting when part of the hand touches the screen when using the stylus pen).	Use devices that support palm rejection.
The position of the touch and the position of the response are	The OS or device does not support touch operation.	Check whether the OS or the device supports touch operation. ⇒Supported OS, a separately provided manual
misaligned.	There is a problem with the OS driver.	Update the driver for the device.
	There is a problem with the application that you are using.	If the touch operation does not respond only with a specific application, check the application specifications.
Lines are not smooth.	Depending on the application used, drawing in fine lines might not result in smooth lines.	-
Slow to respond	A high-load process is running on the device.	Reboot the device.
	There is a problem with the OS driver.	Update the driver for the device.
Reacts when not touched	Dust or water droplets are adhering to the screen of this machine.	Check the screen surface for dust or water droplets.

Problem	Possible cause	Solutions
The machine does not respond when the screen is touched. (when wired connection is used).	The OS or device does not support touch operation.	Check whether the OS or the device supports touch operation. ⇒Supported OS, a separately provided manual
	There is a problem with the OS driver.	Update the driver for the device.
	There is a problem with the application that you are using.	If the touch operation does not respond only with a specific application, check the application specifications.
The machine does not respond when the screen is touched. (when wireless connection is used).	Windows is not set to allow touch operation when connected.	Perform the following steps to verify that the settings are set to allow touch operation:
		Press the "Windows logo key" and the "K" key on the keyboard simultaneously to display the Connect/Cast screen.
		2. Check if the "Allow mouse, keyboard, touch, and pen input from this device" checkbox in the device name of the connected machine is checked.
		If it is not checked, check the box.
		⇒page 54 "Connecting with Windows"
	The OS or device does not support touch operation.	Check whether the OS or the device supports touch operation.
		⇒Supported OS, a separately provided manual
	There is a problem with the OS driver.	Update the driver for the device.

Problem	Possible cause	Solutions
	There is a problem with the application that you are using.	If the touch operation does not respond only with a specific application, check the application specifications.
	When this machine is connected using RICOH Monitor Multicast for Windows or RICOH Monitor Auto Cast for Windows, if touch operations do not respond to the window of a certain application, the application might require administration permission to operate.	Specify "Run as Administrator" when you start RICOH Monitor Multicast for Windows or RICOH Monitor Auto Cast for Windows.
Long presses (long taps) sometimes do not respond.	Due to Windows specifications, when connected wirelessly, if the user does not move from the touched position, the touch output stops and is not detected, and a long press might not result in a response.	-
Touching with stylus pen is not responsive.	Windows is not set to allow touch operation when connected.	Perform the following steps to verify that the settings are set to allow touch operation: 1. Press the "Windows logo key" and the "K" key on the keyboard simultaneously to display the Connect/Cast screen. 2. Check if the "Allow mouse, keyboard, touch, and pen
		input from this device" checkbox in the device name of the connected machine is checked. If it is not checked, check the box.

Problem	Possible cause	Solutions
		⇒page 54 "Connecting with Windows"
	The OS or device does not support touch operation.	Check whether the OS or the device supports touch operation. ⇒Supported OS, a separately
	There is a problem with the OS driver.	Update the driver for the device.
Touching with stylus pen is not responsive.	 The battery in the stylus pen is running out of power. No battery is set in the stylus pen. The battery in the stylus pen is not set correctly. The cap of the stylus pen is not closed properly. 	 Check that the battery is properly set. Replace the batteries. ⇒Read This First, which comes with the stylus pen.
	There is a problem with the application that you are using.	If the touch operation does not respond only with a specific application, check the application specifications.
	The stylus pen is in sleep mode.	Touch the stylus pen to the screen of this machine to cancel sleep mode. Touch the screen again, and the stylus pen will respond.
The function button on the stylus pen is not responding.	The OS or device does not support touch operation.	Check whether the OS or the device supports touch operation. ⇒Supported OS, a separately provided manual
	There is a problem with the application that you are using.	If the touch operation does not respond only with a specific application, check the application specifications.

Problem	Possible cause	Solutions
While using the stylus pen, the device reacts when part of the hand touches the screen.	The connected device does not support palm rejection (a feature that recognizes only the stylus pen touch without reacting when part of the hand touches the screen when using the stylus pen).	Use devices that support palm rejection.
The position of the touch and the position of the response are misaligned.	The OS or device does not support touch operation.	Check whether the OS or the device supports touch operation. ⇒Supported OS, a separately provided manual
	There is a problem with the OS driver.	Update the driver for the device.
	There is a problem with the application that you are using.	If the touch operation does not respond only with a specific application, check the application specifications.
Lines are not smooth.	Depending on the application used, drawing in fine lines might not result in smooth lines.	-
Slow to respond (when wired	A high-load process is running on the device.	Reboot the device.
connection is used)	There is a problem with the OS driver.	Update the driver for the device.
Slow to respond (when wireless connection is used)	A high-load process is running on the device.	Reboot the device.
	There is a problem with the OS driver.	Update the driver for the device.
	The network signal condition is poor.	Check the network status and reconnect.
	This machine is generating heat due to charging of the battery.	Stop charging this machine or use it after charging is complete.

Problem	Possible cause	Solutions
Reacts when not touched (when wired connection is used)	Dust or water droplets are adhering to the screen of this machine.	Check the screen surface for dust or water droplets.
Reacts when not touched (when wireless connection is used)	Dust or water droplets are adhering to the screen of this machine.	Check the screen surface for dust or water droplets.
	The network signal condition is poor.	Check the network status and reconnect.

Problems Related to Images

150 model

Problem	Possible cause	Solutions
No image is displayed.	This machine is turned OFF.	Turn ON the power of this machine.
		⇒page 29 "Turning On and Off the Power"
	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable.
	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	Insufficient power is being supplied to this machine from the connected device.	Check the specifications of the device and confirm that the output power is 7.5 W or higher.
		If the output is less than 7.5 W, connect a USB PD charger to this machine.
	The connected device does not support DisplayPort Alternate Mode (DP Alt mode).	Use a device that supports DisplayPort Alternate Mode.

Problem	Possible cause	Solutions
	A different input method has been selected.	Select the input method that you want to display in the "Switching Input".
		⇒page 31 "Switching Inputs"
	A resolution not supported by this machine has been input.	Check whether the output resolution of the device is supported by this machine. ⇒page 167 "Specifications"
An image has noise.	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable.
	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	The connected device is outputting abnormal data.	Connect other devices and check if the same problem occurs.
	A resolution not supported by this machine has been input.	Check whether the output resolution of the device is supported by this machine.
		⇒page 167 "Specifications"
	There is a device generating noise in the surroundings.	Change the location of use and check if the problem improves.
The image is delayed.	A high-load process is running on the device.	Reboot the device.
The screen switches unintentionally.	If there is no video input signal and nothing is displayed on the screen, the input method is automatically switched when a video input is connected to another port.	-
	There is a problem with the connected device.	Change the device.
	USB Type-C cable is damaged.	Replace the USB Type-C cable.

Problem	Possible cause	Solutions
Screen does not switch automatically	The condition that the input method switches automatically is not met.	For details about the conditions under which the input method switches automatically, see page 31 "Switching Inputs".
	There is a problem with the connected device.	Change the device.
	USB Type-C cable is damaged.	Replace the USB Type-C cable.
	 A charger that is not supported by this machine is used. 	Replace the USB PD charger.
	There is a problem with the USB PD charger.	
The screen is dark.	The brightness of this machine is set low.	Change the brightness setting in the On-screen Display menu.
		⇒page 114 "Setting Items in the On-screen Display Menu"
	Insufficient power is being supplied to this machine from the connected device.	Connect this machine to a USB PD charger.
	The original image is darkened.	Check the video brightness on the device side.
	USB Type-A to USB Type-C conversion cable is being used.	This machine cannot be used with a Type-C conversion cable from a USB Type-A port.
		Use a cable with only USB Type- C cable terminals.
	Insufficient power is being supplied to this machine from the USB PD charger being used.	Brightness could be limited depending on the combination of the connected device and USB PD charger. Replace with a USB PD charger with an output of 45 W or higher.

Problem	Possible cause	Solutions
The color is wrong.	The color temperature of this machine is set to "User".	Selecting "User" for color temperature in the On-screen Display menu and adjusting the setting value can cause color imbalance depending on the setting. Change the color temperature setting to other than "User". ⇒page 114 "Setting Items in the
	The contrast of this machine is set high.	On-screen Display Menu" If the contrast setting in the Onscreen Display menu is set higher than the default value of "80", some colors could appear whitish. Change the contrast setting to "80".
		⇒page 114 "Setting Items in the On-screen Display Menu"
	There is a problem with the input video.	Check the color of the image on the device side.
	USB Type-C cable is damaged.	Replace the USB Type-C cable.
Copyrighted content is not displayed.	The connected device does not support HDCP.	Use a device that is HDCP-compliant.
	A peripheral device that does not support HDCP is connected between this machine and the device.	If a cable or USB hub that does not support HDCP is connected between this machine and a device, copyrighted content might not be displayed. Connect the device directly to this machine with a USB Type-C cable.
Image burned in	A still image is displayed continuously for a long time.	Continuously displaying a still image for a long period of time could cause the image to burn into the screen. Avoid using still images for long periods of time.

Problem	Possible cause	Solutions
The screen flickers.	flickers. This is due to the specifications of this machine and is not a defect or malfunction.	The screen could appear to flicker depending on the operating environment and user. Changing the brightness setting
		in the On-screen Display menu could improve the flickering.
		⇒page 114 "Setting Items in the On-screen Display Menu"
Screen glows momentarily when brightness is changed	This is due to the specifications of this machine and is not a defect or malfunction.	-
Part of the screen remains unlit.	OLED panels form an image via a collection of pixels and are manufactured to design specifications. While most of the screen operates normally, there are some dots in red, blue, or green that remain unlit, pixel by pixel. This is a limitation of OLED technology and is not a defect or failure.	-

Problem	Possible cause	Solutions
No image is displayed (when wired connection is used).	This machine is turned OFF.	Turn ON the power of this machine. ⇒page 29 "Turning On and Off the Power"
	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable.
	A problem with USB Type-C cable.	Replace the USB Type-C cable.

Problem	Possible cause	Solutions
	Insufficient power is being supplied to this machine from the connected device.	Check the specifications of the device and confirm that the output power is 7.5 W or higher. If the output is less than 7.5 W,
		connect a USB PD charger to this machine.
	The connected device does not support DisplayPort Alternate Mode (DP Alt mode).	Use a device that supports DisplayPort Alternate Mode.
	A different input method has been selected.	Select the input method that you want to display in the "Switching Input".
		⇒page 31 "Switching Inputs"
	A resolution not supported by this machine has been input.	Check whether the output resolution of the device is supported by this machine. ⇒page 167 "Specifications"
	There is no battery power remaining.	Connect this machine to a device that supports the USB PD standard or to a USB PD charger to charge the battery.
No image is displayed (when wireless connection is used).	This machine is turned OFF.	Turn ON the power of this machine. ⇒page 29 "Turning On and Off the Power"
	There is no battery power remaining.	Connect this machine to a device that supports the USB PD standard or to a USB PD charger to charge the battery.
	A different input method has been selected.	Select the input method that you want to display in the "Switching Input". ⇒page 31 "Switching Inputs"

Problem	Possible cause	Solutions
	The screen is switching.	Due to the properties of the OLED panel, the screen displays completely dark at the timing when the black screen is displayed.
		Check the power status of this machine with the power LED.
		⇒page 13 "Component Names and Functions"
An image has noise (when wired	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable.
connection is used).	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	The connected device is outputting abnormal data.	Connect other devices and check if the same problem occurs.
	A resolution not supported by this machine has been input.	Check whether the output resolution of the device is supported by this machine. ⇒page 167 "Specifications"
	There is a device generating noise in the surroundings.	Change the location of use and check if the problem improves.
An image has noise (when wireless	The connected device is outputting abnormal data.	Connect other devices and check if the same problem occurs.
connection is used).	A resolution not supported by this machine has been input.	Check whether the output resolution of the device is supported by this machine. ⇒page 167 "Specifications"
	There is a device generating noise in the surroundings.	Change the location of use and check if the problem improves.
	The network signal condition is poor.	Check the network status and reconnect.
	This machine is generating heat due to charging of the battery.	Stop charging this machine or use it after charging is complete.

Problem	Possible cause	Solutions
	Due to the specifications of wireless video transmission, noise can occur when displaying video with a lot of movement.	-
The image is delayed (when wired connection is used).	A high-load process is running on the device.	Reboot the device.
The image is delayed (when	The network signal condition is poor.	Check the network status and reconnect.
wireless connection is used).	A high-load process is running on the device.	Reboot the device.
	This machine is generating heat due to charging of the battery.	Stop charging this machine or use it after charging is complete.
	Wireless connection to the device and to the access point is used at the same time.	Disconnect from the access point before connecting to the device via wireless connection. To disconnect from the access point, move to a location where the access point is out of range or select and delete the network you want to disconnect from the "List of Saved Networks" on the Wi-Fi screen.
The screen switches unintentionally.	If there is no video input signal and nothing is displayed on the screen, the input method is automatically switched when a video input is connected to another port.	-
	There is a problem with the connected device.	Change the device.
	USB Type-C cable is damaged.	Replace the USB Type-C cable.

Problem	Possible cause	Solutions
	There is no battery power remaining.	Connect this machine to a device that supports the USB PD standard or to a USB PD charger to charge the battery.
Screen does not switch automatically	The condition that the input method switches automatically is not met.	For details about the conditions under which the input method switches automatically, see page 31 "Switching Inputs".
	There is a problem with the connected device.	Change the device.
	USB Type-C cable is damaged.	Replace the USB Type-C cable.
	There is no battery power remaining.	Connect this machine to a device that supports the USB PD standard or to a USB PD charger to charge the battery.
	 A charger that is not supported by this machine is used. 	Replace the USB PD charger.
	 There is a problem with the USB PD charger. 	
The screen is dark (when wired connection is used).	The brightness of this machine is set low.	Change the brightness setting in the On-screen Display menu. ⇒page 114 "Setting Items in the On-screen Display Menu"
	Insufficient power is being supplied to this machine from the connected device.	Connect this machine to a USB PD charger.
	The original image is darkened.	Check the video brightness on the device side.
	The power supply is less than 15 W output, and the remaining battery power is less than 2%.	Connect this machine to a USB PD charger to charge the battery.

Problem	Possible cause	Solutions
	Insufficient power is being supplied to this machine from the USB PD charger being used.	Brightness could be limited depending on the combination of the connected device and USB PD charger. Replace with a USB PD charger with an output of 45 W or higher.
The screen is dark (when wireless connection is used).	The brightness of this machine is set low.	Change the brightness setting in the On-screen Display menu. ⇒page 114 "Setting Items in the On-screen Display Menu"
	The original image is darkened.	Check the video brightness on the device side.
	The power supply is less than 15 W output, and the remaining battery power is less than 2%.	Connect this machine to a USB PD charger to charge the battery.
The color is wrong (when wired connection is used).	The color temperature of this machine is set to "User".	Selecting "User" for color temperature in the On-screen Display menu and adjusting the setting value can cause color imbalance depending on the setting. Change the color temperature setting to other than "User".
		⇒page 114 "Setting Items in the On-screen Display Menu"
	The contrast of this machine is set high.	If the contrast setting in the On- screen Display menu is set higher than the default value of "80", some colors could appear whitish. Change the contrast setting to "80".
		⇒page 114 "Setting Items in the On-screen Display Menu"
	There is a problem with the input video.	Check the color of the image on the device side.
	USB Type-C cable is damaged.	Replace the USB Type-C cable.

Problem	Possible cause	Solutions
The color is wrong (when wireless connection is used).	The color temperature of this machine is set to "User".	Selecting "User" for color temperature in the On-screen Display menu and adjusting the setting value can cause color imbalance depending on the setting. Change the color temperature setting to other than "User". ⇒page 114 "Setting Items in the
		On-screen Display Menu"
	The contrast of this machine is set high.	If the contrast setting in the Onscreen Display menu is set higher than the default value of "80", some colors could appear whitish. Change the contrast setting to "80".
		⇒page 114 "Setting Items in the On-screen Display Menu"
	There is a problem with the input video.	Check the color of the image on the device side.
	The network signal condition is poor.	Check the network status and reconnect.
Copyrighted content is not	The connected device does not support HDCP.	Use a device that is HDCP-compliant.
displayed.	A peripheral device that does not support HDCP is connected between this machine and the device.	If a cable or USB hub that does not support HDCP is connected between this machine and a device, copyrighted content might not be displayed. Connect the device directly to this machine with a USB Type-C cable.
Image burned in	A still image is displayed continuously for a long time.	Continuously displaying a still image for a long period of time could cause the image to burn into the screen. Avoid using still images for long periods of time.

Problem	Possible cause	Solutions
The screen flickers.	specifications of this machine and is not a defect or malfunction.	The screen could appear to flicker depending on the operating environment and user.
		Changing the brightness setting in the On-screen Display menu could improve the flickering.
		⇒page 114 "Setting Items in the On-screen Display Menu"
Screen glows momentarily when brightness is changed	This is due to the specifications of this machine and is not a defect or malfunction.	-
Part of the screen remains unlit.	OLED panels form an image via a collection of pixels and are manufactured to design specifications. While most of the screen operates normally, there are some dots in red, blue, or green that remain unlit, pixel by pixel. This is a limitation of OLED technology and is not a defect or failure.	-

Problems Related to Sound

150 model

Problem	Possible cause	Solutions
No sound	No audio is being input from the connected device.	Check if the audio output destination of the device is set to this machine (RICOH Monitor).
		 Check the volume setting of the device or the volume setting of the application being used.

Problem	Possible cause	Solutions
	The volume of this machine is set to "0".	Adjust the volume. ⇒page 34 "Changing the Volume"
	Insufficient power is being supplied to this machine from the connected device or USB PD charger.	When the On-screen Display menu and Switching Input screen are not displayed, slide the Menu/Select/Enter button up or down to display the volume screen and check whether Low power mode [mute] is displayed.
		If it is displayed, connect this machine to a USB PD charger with an output of 15 W or more.
Low volume	The volume setting of the connected device is low.	Adjust the volume setting of the device or the volume setting of the application being used.
	The volume of this machine is set low.	Adjust the volume. ⇒page 34 "Changing the Volume"
Noise in the audio	The original audio contains noise.	Check the audio on the device side.
	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	The volume is too loud.	Turn the volume down and check if the problem improves. ⇒page 34 "Changing the Volume"
Video and audio are out of sync.	The video and audio are out of sync from the original.	Check whether there is any discrepancy between video and audio on the device side.

Problem	Possible cause	Solutions
	No audio is being input from the connected device.	Check if the audio output destination of the device is set to this machine (RICOH Monitor).

Problem	Possible cause	Solutions
No sound (when wired connection is		Check the volume setting of the device or the volume setting of the application being used.
used)	The volume of this machine	Adjust the volume.
	is set to "0".	⇒page 34 "Changing the Volume"
	Insufficient power is being supplied to this machine from the connected device or USB PD charger.	When the On-screen Display menu and Switching Input screen are not displayed, slide the Menu/Select/Enter button up or down to display the volume screen and check whether Low power mode [mute] is displayed.
		If it is displayed, connect this machine to a USB PD charger with an output of 15 W or more.
		⇒page 34 "Changing the Volume"
No sound (when wireless connection is used)	No audio is being input from the connected device.	Check if the audio output destination of the device is set to this machine (RICOH Monitor).
		 Check the volume setting of the device or the volume setting of the application being used.
	The volume of this machine is set to "0".	Adjust the volume.
		⇒page 34 "Changing the Volume"
	The power supply is less than 15 W output, and the remaining battery power is less than 2%.	When the On-screen Display menu and Switching Input screen are not displayed, slide the Menu/Select/Enter button up or down to display the volume screen and check whether Low power mode [mute] is displayed.
		If it is displayed, connect this machine to a USB PD charger with an output of 15 W or more.
		⇒page 34 "Changing the Volume"

Problem	Possible cause	Solutions
	Sound mute is turned ON.	Check whether the Sound or Mute AV is turned ON in the menu icon that appears on the screen during the connection. If it is ON, touch the icon to turn it OFF. ⇒page 87 "Muting Sound" ⇒page 87 "Disabling Screen
		Display/Sound/Touch Operation Temporarily"
No sound (when wireless	The network signal condition is poor.	Check the network status and reconnect.
connection is used)	Audio cannot be played when using RICOH Monitor Mirroring for macOS or RICOH Monitor Multicast for Windows.	-
Low volume	The volume setting of the connected device is low.	Adjust the volume setting of the device or the volume setting of the application being used.
	The volume of this machine is set low.	Adjust the volume. ⇒page 34 "Changing the Volume"
Noise in the audio (when	The original audio contains noise.	Check the audio on the device side.
wired connection is used)	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	The volume is too loud.	Turn the volume down and check if the problem improves. ⇒page 34 "Changing the Volume"
Noise in the audio (when wireless connection is used)	The original audio contains noise.	Check the audio on the device side.
	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	The volume is too loud.	Turn the volume down and check if the problem improves.
		⇒page 34 "Changing the Volume"

Problem	Possible cause	Solutions
	There is a device generating noise in the surroundings.	Change the location of use and check if the problem improves.
	The network signal condition is poor.	Check the network status and reconnect.
	The connected device is outputting abnormal data.	Connect other devices and check if the same problem occurs.
Video and audio are out of sync (when wired connection is used).	The video and audio are out of sync from the original.	Check whether there is any discrepancy between video and audio on the device side.
Video and audio are out of sync (when	The video and audio are out of sync from the original.	Check whether there is any discrepancy between video and audio on the device side.
wireless connection is used).	The network signal condition is poor.	Check the network status and reconnect.
,	External speakers are used.	Connecting an external speaker to the device without using the speaker of this machine could cause the audio to shift.

Problems Related to Wireless Connection

150 model

Problem	Possible cause	Solutions
Unable to change to wireless connection via Switching Input	This model does not support wireless connection.	Check the model name of this machine. The model that supports wireless connection is "150BW".
		⇒page 3 "About the Model Names of this Machine"

Problem	Possible cause	Solutions
Unable to change to wireless connection via Switching Input	It is connected to a power source with an output of less than 20 W, and the remaining battery power is less than 2%.	Connect this machine to a USB PD charger with an output of 20 W or more.
Cannot connect wirelessly to a device Cannot connect wirelessly to a second device	This machine is turned OFF.	Turn this machine ON and wait for the Waiting to connect screen to display before making a connection. ⇒page 29 "Turning On and Off the Power"
	When connecting from a device, the device name of this machine is not selected.	Check if the device name of this machine, which is displayed in "Dev.Info/Setting" on the Settings screen or in the upper right corner of the Waiting to connect screen, is displayed in the Connection list on the device side, and then select it.
	This model does not support	⇒page 97 "Dev.Info/Setting" Check the model name of this
	wireless connection.	machine. The model that supports wireless connection is "150BW".
		⇒page 3 "About the Model Names of this Machine"
	The network signal condition is poor.	Check the network status and reconnect.
		Check that there are no devices in the surroundings that generate radio waves that could interrupt wireless communication, and then try the wireless connection again.

Problem	Possible cause	Solutions
Cannot connect wirelessly to a device	The device you are trying to connect does not support Miracast.	Use a device that supports Miracast. ⇒Supported OS, a separately provided manual
 Cannot connect wirelessly to a 	A high-load process is running on the device.	Finish the process on the device side, and then reconnect it.
second device	There is a problem with the device that you are trying to connect.	Reboot the device and reconnect it.
Cannot connect wirelessly to a device Cannot connect wirelessly to a second device The connect connect wirelessly to a second device Cannot connect wirelessly to a second device	Blocked by Windows firewall	 When using Windows 10 Go to "Windows Settings", then "Update and Security", then "Windows Security", then "Firewall and Network Protection", then "Public Networks", and uncheck "Block all incoming connections, including apps in the list of allowed apps". When using Windows 11 Go to "Windows Settings", "Privacy and Security", "Windows Security", "Firewall and Network Protection", "Public Networks", and then "Block all incoming connections, including apps in the list of allowed apps". Uncheck the "Block all incoming connections, including apps in the list of allowed apps".
Lost wireless connection	A high-load process is running on the device.	Finish the process on the device side, and then reconnect it.
	The network signal condition is poor.	Check the network status and reconnect.

Problem	Possible cause	Solutions
		Check that there are no devices in the surroundings that generate radio waves that could interrupt wireless communication, and then try the wireless connection again.
The desired network does not appear in the list under "Select network".	The network is configured with stealth features.	After confirming the SSID, touch the "Network" entry field on the Wi-Fi screen and enter the SSID directly. ⇒page 100 "Wi-Fi"
	The access point is turned OFF.	Turn ON the access point.
	The signal from the access point does not reach this machine.	Move to a location where the access point's signal can be received.
	The network signal condition is poor.	 Check the network status and reconnect. Check that there are no devices in the surroundings that generate radio waves that could interrupt wireless communication, and then try the wireless connection again.
Unable to connect to network	An incorrect SSID has been entered.	Enter the correct SSID, and then reconnect to the network. ⇒page 100 "Wi-Fi"
	An incorrect password has been entered.	Enter the correct password, and then reconnect to the network. ⇒page 100 "Wi-Fi"
	The signal from the access point does not reach this machine.	Move to a location where the access point's signal can be received.
	The network signal condition is poor.	Check the network status and reconnect.

Problem	Possible cause	Solutions
		Check that there are no devices in the surroundings that generate radio waves that could interrupt wireless communication, and then try the wireless connection again.
	Environment-dependent characters are used in the network SSID.	Change the SSID to one that does not contain environment-dependent characters.
Does not automatically connect to	The signal from the access point does not reach this machine.	Move to a location where the access point's signal can be received.
networks saved in the "List of Saved Networks"	The network signal condition is poor.	 Check the network status and reconnect. Check that there are no devices in the surroundings that generate radio waves that could interrupt wireless communication, and then try the wireless connection again.
	Already connected to the device	The network cannot automatically connect to a device while it is connected to the network. When the connection to the device is disconnected, it can automatically connect to the network.
Want to erase the entered network password	-	Select the network that you want to delete from the "List of Saved Networks" on the Wi-Fi screen and delete it. ⇒page 100 "Wi-Fi"
The device cannot be registered in the "Connection list".	Registration to the Connection list is disabled.	Turn ON "Register to cxn list" on the Connection list screen. ⇒page 101 "Connection List"

Problem	Possible cause	Solutions
Device disappeared from the "Connection list"	A new device is registered with eight devices already registered.	Connect to the device again and register the device as the first device in the Connection list.
		Delete unnecessary devices from the Connection list to reduce the number of devices registered to less than eight. ⇒page 101 "Connection List"
Accidentally deleted a device	-	Reconnect to the device with the
from the Connection list		"Register to cxn list" turned ON. ⇒page 101 "Connection List"

Problems Related to RICOH Monitor Mirroring for macOS/RICOH Monitor Mirroring for iOS

Problem	Possible cause	Solutions
Cannot install application	There is an attempt to install the application on an unsupported OS.	Install on a compatible OS. For details, see Supported OS, a separately provided manual.
	There is insufficient capacity in the device.	Increase the free space by deleting unnecessary files, etc., and then reinstall the application.
The application does not start.	The application file is corrupt.	Reinstall the application.
	An unexpected error has occurred in the OS.	Reboot the device.

Problems Related to RICOH Monitor Multicast for Windows

150 BW model

Problem	Possible cause	Solutions
Video image not shared	An error has occurred in the application.	Restart the application and reconnect.
Touch operation is not reflected from the RICOH Monitor that allowed touch operation.	An error has occurred in the application.	Restart the application and reconnect.

Problems Related to Firmware Updates

150BW model

Problem	Possible cause	Solutions
Unable to connect this machine to a	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable.
computer	A problem with USB Type-C cable.	Replace the USB Type-C cable.
	The connected device does not support DisplayPort Alternate Mode (DP Alt mode).	Use a device that supports DisplayPort Alternate Mode.
	USB Type-A to USB Type-C conversion cable is being used.	This machine cannot be used with a Type-C conversion cable from a USB Type-A port.
		Use a cable with only USB Type- C cable terminals.
Unable to connect this machine to a computer	Blocked by Windows firewall	When using Windows 10

Problem	Possible cause	Solutions		
		Go to "Windows Settings", then "Update and Security", then "Windows Security", then "Firewall and Network Protection", then "Public Networks", and uncheck "Block all incoming connections, including apps in the list of allowed apps". • When using Windows 11 Go to "Windows Settings", "Privacy and Security", "Windows Security", "Firewall and Network Protection", "Public Networks", and then "Block all incoming connections, including apps in the list of allowed apps". Uncheck the "Block all incoming connections, including apps		
		in the list of allowed apps".		
Unable to connect this machine to a computer	RICOH Monitor 150BW Firmware Updater is not allowed to communicate through the firewall.	When using Windows 10 Go to "Windows Settings", "Update and Security", "Windows Security", "Firewall and Network Protection", and "Allow Applications through the Firewall" to allow Monitor Update TCP 51000 and Monitor Update UDP 51000 to communicate through the firewall. When using Windows 11		

Problem Possible cause		Solutions	
		Go to "Windows Settings", "Privacy and Security", "Windows Security", "Firewall and Network Protection", and "Allow applications through the firewall" to allow Monitor Update TCP 51000 and Monitor Update UDP 51000 to communicate through the firewall.	
Failure to send update file	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable, and then retry the firmware update.	
	A problem with USB Type-C cable.	Replace the USB Type-C cable, and retry the firmware update.	
Turned OFF the power during the update The battery ran out of power during the update The USB Type-C cable is removed during the update.	-	Perform the firmware update again. ⇒page 101 "Firmware"	
Update fails	The USB Type-C cable is not properly connected.	Reconnect the USB Type-C cable, and then retry the firmware update.	
	A problem with USB Type-C cable.	Replace the USB Type-C cable, and retry the firmware update.	
	The downloaded update file is corrupt.	Download the RICOH Monitor 150BW Firmware Updater again and retry the firmware update. ⇒page 101 "Firmware"	

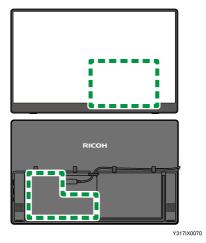
Problem	Possible cause	Solutions	
The update does not end with the update in progress.	There is a problem with this machine.	Reboot this machine and retry the firmware update.	

Troubles Related to This Machine

150/150BW model

This machine gets hot.

The area within the dotted line in the following figure might feel hot, but this is due to the specifications of this machine and is not a defect:



Important

- During use, do not keep touching the portion indicated within the dotted lines. Doing so will cause low-temperature burn.
- If you are directly holding the machine during use, be careful not to touch the portion indicated within the dotted lines.

9. Appendix

This section describes how to operate the stylus pen (optional), how to care for this machine, contact information, trademarks, etc.

Using a Stylus Pen

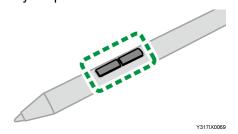
The optional RICOH Monitor Stylus Pen Type 1 (stylus pen) can be used to perform stylus pen operations on this machine.

Method of use

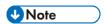
Once a battery is set in the stylus pen, it can be used immediately with this machine. There is no need to turn ON the stylus pen or to connect it to this machine.

Function buttons

The stylus pen has two function buttons.



The action when the function button is pressed depends on the application used.



- Before using the stylus pen, be sure to read the "Safety Information" in the "Read This First", which comes with the stylus pen.
- For details about how to set the battery, see "Inserting/Removing the Battery into/from the Stylus Pen" in the "Read This First", which comes with the stylus pen.

Maintenance

Cleaning the Display

- When the surface of the display on this machine becomes soiled, wipe it clean with a soft, dry cloth. If the display is used while soiled, the position touched on the display might not be recognized correctly.
- If the touch operation shows signs of incorrect operation, clean the screen.
 - Before cleaning the screen, turn OFF the machine and unplug all cables.
 - Remove dust and dirt from the screen periodically. Use a clean, soft cloth for cleaning.
 - Do not wipe the screen with an abrasive cloth, as this can damage the screen.
 - Do not spray neutral detergent directly onto the screen or main frame.

Specifications

Machine Specifications

Item		Specifications	
Display panel	Display method	OLED (Organic Light Emitting Diode)	
	Panel size	15.6 inches	
	Maximum resolution	1920 × 1080	
	Brightness (max)	300 nit (=cd/m ²)	
	Contrast	1:100,000	
	Display colors	8bit+2bit FRC	
	Maximum number of colors	Approx. 1.07 billion colors	
	Refresh rate	60 Hz	
	Color gamut	DCI P3 100%	
	Viewing angle	85° or higher	
	Response time	1 ms	
	Blue light cut	Eye Care Display certified	
Touch panel	Protective glass	Toughened glass, AF (anti-fingerprint) coating	
	Detection method	Active electrostatic coupling method (AES2.0)	
	10-point multi-touch	Supported (depends on OS support)	
Interfaces	Back side	USB Type-C × 2	
		(External power supply/DisplayPort signal input function supported)	
	Screen wireless communication method	Miracast	
	Encryption	WPA2-PSK	
	Supported wireless LAN standard	IEEE802.11 b/g/n (2.4 GHz) IEEE802.11 a/n/ac (5 GHz)	

Item		Specifications	
Audio	Built-in speaker	1.5 W × 2	
Power supply (external)	Input method	USB Power Delivery (USB Type-C powered)	
	Input	15 W or more recommended, max. 45 W (5 V/3 A, 9 V/3 A, 15 V/3 A, 20 V/2.25 A)	
	Output (pass-through charging)	Max. 25 W (5 V/0.9 A, 9 V/0.77 A, 15 V/1.66 A, 20 V/1.25 A)	
	ON mode power consumption	150 model 13 W or less	
		150BW model	
		15.5 W or less	
	Standby mode power consumption	0.2 W or less	
Internal battery (150BW only)	Туре	lithium-ion battery	
	Capacity	3740 mAh	
	Operating time (when fully charged)	Continuous operating time: 3 hours Note	
		 The operating time is a rough estimate of the shipping state based on our measurement method and can vary depending on the usage conditions. 	
	Charging time	Approx. 2.5 hours (when charged at 16–35°C environment)	
Environment	Operating temperature	 0~35°C ◆Note • The temperature range varies according to the conditions of the installation location. 	
	Operating humidity	10–80% (without condensation)	

	Item	Specifications		
		 Note The humidity range varies according to the conditions of the installation location. 		
Weight (main unit only)		150 model Approx. 560 g 150BW model Approx. 715 g		
Dimensions (main unit only) W × D × H		356.0 × 10.8 × 221.7 mm (Thinnest part: 4.8 mm)		
Screen installation angle	Landscape orientation	Free stop (approx. 75–16°) Note Recommended angle for writing: approx. 16°		
	Portrait orientation	Approx. 70°		
Certification	Supported Certifications	Energy Star, Act on Promoting Green Purchasing		
Accessories		 USB Type-C cable Cable clamps × 4 Sleeve case Warranty card Read This First Quick Guide License Code for "RICOH Monitor Multicast for Windows" (150BW Model Only) EU ErP Lot5 label (UK/EU) Instructions to Dealers Warranty Flyer for EU/NA 		

₩ Note

• The source code for some of the firmware installed in the machine is available to the public. To obtain the source code, please contact our contact person.

Optional Specifications

RICOH Monitor Stylus Pen Type1

Item	Specifications
Detection method	AES2.0
Other specifications	 AAAA dry cell battery × 1 Up to 4,096 levels of pressure detection Function button × 2 (For wired connection, depends on OS/application support)

9

Trademarks

Android is a trademark or a registered trademark of Google LLC.

IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

Apple is a trademark of Apple Inc., registered in the United States and other countries.

Mac is a trademark or registered trademark of Apple Inc., in the United States and other countries.

macOS is a trademark of Apple Inc., registered in the United States and other countries.

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The terms HDMI is a trademark or a registered trademark of HDMI Licensing Administrator, Inc. in the United States and other countries.

HDMI High-Definition Multimedia Interface is a trademark or a registered trademark of HDMI Licensing Administrator, Inc. in the United States and other countries.

USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum.

Wi-Fi® is a registered trademark of Wi-Fi Alliance.

Wi-Fi Direct[®] is a registered trademark of Wi-Fi Alliance.

WPA2™ is a trademark of Wi-Fi Alliance.

MiracastTM is a registered trademark of Wi-Fi Alliance.

Microsoft is either a registered trademark or a trademark of Microsoft Corporation in the United States and/or other countries.

Windows is either a registered trademark or a trademark of Microsoft Corporation in the United States and/or other countries.

• The product names of Windows 10 are as follows:

Microsoft[®] Windows[®] 10 Home

Microsoft® Windows® 10 Pro

Microsoft® Windows® 10 Enterprise

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights to those marks.

Microsoft product screen shots reprinted with permission from Microsoft Corporation.

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