Panasonic

Operating Instructions
Functional Manual

Wireless Presentation System **For business use**

Model No.

TY-WPS2
WPS Basic Set

TY-WPB2
WPS Transmitter

TY-WPR2
WPS Receiver

TY-WPSC2
WPS USB-C Basic Set

TY-WPBC2
WPS USB-C Transmitter

* WPS is an abbreviation of “Wireless Presentation System”.

PressIT

* PressIT is a nickname for “Wireless Presentation System”.

Thank you for purchasing the Panasonic product.

- Please read these instructions before operating this product and retain them for future reference.
- **Be sure to read “Safety Precautions” (page 2 to 3) before use.**

English

DA0225HM5036 -PB

DPQP1637ZE/X1

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Safety Precautions

WARNING:

Stop using the product immediately when an abnormality or malfunction occurs.
Remove the power plug in the case of an abnormality.

- Smoke is emitted, or abnormal smell or sound occurs.
- Video or audio is not reproduced in some cases.
- Liquid such as water or a foreign object has entered inside the product.
- The product is deformed or damaged.

Using the product in such states may cause a fire or electric shock.

- Remove the power plug from the outlet and request repair to the dealer where you purchased the product.
- It is necessary to remove the power plug to completely turn off the power of this product.
- Do not repair the product by the customer since it is dangerous.
- Use an outlet located at a position where the hand can reach easily so that the power plug can be removed quickly.

Do not insert foreign objects into the product.
Do not insert or drop metals or flammable items into the inside the product from the vent hole, etc.
Smoke is emitted, or abnormal smell or sound occurs.

- Keep an eye on children in particular.

■ About AC adaptor

Do not use an AC adaptor or AC adaptor cable other than those supplied with this product.
Using an AC adaptor or AC adaptor cable other than those supplied may cause an electric shock or fire due to short circuit or heat generation.
Clean the power plug periodically to prevent dust from accumulating.
Failure to do so may cause a fire or electric shock due to moisture.

- Remove the power plug and wipe it with dry cloth.

Do not insert or remove the power plug with wet hand.
Doing so may cause an electric shock.
Do not use the outlet or wiring devices exceeding rated values or with currents other than 100 – 240 V AC.
Using them exceeding rated values by connecting too many plugs in one outlet may cause a fire due to heat generation.
Insert the power plug securely to the end.
Insufficient insertion may cause a fire due to an electric shock or heat generation.

- Do not use the product with a damaged plug or loose outlet.

Do not damage the AC adaptor and power plug.
(by damaging, modifying, forcibly bending, twisting, pulling or bundling them, bringing them close to heat appliances, placing heavy items on them, etc.)

Doing so may cause a fire or electric shock due to short circuit or disconnection.

- Request the dealer for repair of the AC adaptor or power plug.

Use the product 15 cm or more away from a location where a cardiac pacemaker is embedded.
Radio waves may affect the operation of the pacemaker.
Do not use the product in an airplane.
The operational safety may be impaired.
Do not use the product near an automatic door, fire alarm or other automatic control devices.
Radio waves from this product may affect automatic control devices, which may cause an operational error, resulting in an accident.
Do not use the product in hospital or a location with medical equipment.
Radio waves from this product may affect medical equipment, which may cause an operational error, resulting in an accident.
Do not use the product while touching it for a long time.
Touching the hot parts of the product and AC adaptor for a long time may cause a low-temperature burn*.

* Persons with poor bloodstream (due to vascular impairment, poor blood circulation, diabetes or strong compression) or poor skin sensitivity (elderly persons) tend to get a low-temperature burn.

Do not touch the product and AC adaptor if it begins to thunder.
Doing so may cause an electric shock.
Do not wet the product.
Doing so may cause a fire or electric shock.
Do not place the product on unstable locations.
Placing the product on a shaky table or an inclined location may cause an injury due to falling over or dropping.
Do not remove or modify the back cover (cabinet).
Keep the screws supplied with the receiver out of reach of infants.
The screws may be accidentally swallowed.

- In the event this occurs, consult a doctor immediately.

For installation, please ask a qualified technician or a dealer.
If installation is not carried out and secured correctly, it can cause falling accidents.

- If you terminate the use of the product, ask a professional to remove it promptly.

Do not touch the bottom surface of the transmitter during use.
The bottom surface of the transmitter may be hot during and after use for a while, resulting in a burn injury.
Also, do not place it on an object sensitive to heat. Doing so may cause deformation or discoloration.

CAUTION:
Do not block the vent hole of this product.
Do not push the product into a narrow and poorly ventilated space.
Doing so may cause heat to accumulate inside, resulting in a fire or malfunction.
Do not place a heavy item on the product.
Doing so may cause a fire or malfunction.
Do not place the product at a high-temperature location, humid or dusty location, or location subject to oil smoke or steam (such as a cooking table and humidifier).
Doing so may cause a fire or electric shock.
When removing the connection cables, be sure to hold the connector and pull it.
Pulling the cord may damage the cord, resulting in a fire due to an electric shock or short circuit.
When transferring the product, remove the connection cables of equipment beforehand.
Failure to do so may damage the cord or product, resulting in a fire or electric shock.
When not using the product for a prolonged period, remove the power plug from the outlet.
Dust may accumulate in the power plug, resulting in a fire or electric shock.
Do not pull or hang the connection cables.
Doing so may cause the product to fall over or drop, resulting in an injury.

- Keep an eye on children in particular.

Do not put things magnetically affected close to the transmitter, such as a magnetic card and magnetic disk.

■ Maintenance

For maintenance, remove the power plug from the outlet for safety.
Failure to do so may cause an electric shock.

Before Using

Features of the system

The wireless presentation system allows screens displayed on an image output device to be projected (mirroring) on a display or projector installed at a remote location.
Since small screens of a smartphone, notebook computer, etc. can be displayed on a large screen, this system is convenient to show presentation materials on a large display in a meeting, enjoy images on a large display, show images with a display installed at a location where wiring cables is difficult or other cases.

This system is composed of a transmitter and a receiver, and sends images on an image output device to the receiver via wireless LAN using the transmitter.
Also, images can be sent to the receiver from a mobile device (Android device) without using the transmitter.
Using the following methods allows images on an image output device to be displayed on a display or projector.

① Send images on an image output device to the receiver using the transmitter to display the images on a display or projector.

② Send images on a mobile device (Android device) directly to the receiver using a dedicated application to display the images on a display or projector.

③ Send images on a mobile device (Android device) to the receiver using a dedicated application via external wireless LAN to display the images on a display or projector.

Note

- Depending on the usage environment, some of the displayed contents on the application screen or Web setting screen may differ.

Precautions for use

■ When transporting this product

Do not apply excessive vibrations or impacts during transport.
Doing so may damage the internal parts, resulting in a malfunction.

■ When installing this product

Do not install the product outdoors.
This product is intended for exclusive use indoors. Using it outdoors is prohibited by radio wave-related laws.
Do not install the product in the following locations.

- Locations subject to vibrations or impacts such as vehicles and vessels: The internal parts may be damaged, resulting in a malfunction.
- Near the sea or locations where corrosive gases are generated: The life-span of parts may be affected or a malfunction may occur.
- Near high-voltage wires or power sources: The operation of the product may be disturbed.

Do not install the product at a location of 2 700 m (8 853 ft) or higher above sea level.
Doing so may affect the life-span of parts or cause a malfunction.
The operating temperatures for this product are 0 °C to 35 °C (32 °F to 95 °F) at a location of less than 1 400 m (4 593 ft) above sea level, and 0 °C to 30 °C (32 °F to 86 °F) at a location of 1 400 m (4 593 ft) or higher and less than 2 700 m (8 853 ft) above sea level.
Do not block the air inlet and air outlet of the product. Do not use the product in a manner that disturbs inlet and outlet of air.
Doing so may damage the internal parts, resulting in a malfunction.
We are not responsible for any product damage, etc. caused by failures in the installation environment even during the warranty period.
Do not allow both the transmitter and receiver to remain always on.
Keeping them always on may degrade the performance.
The following operations are recommended to maintain the performance.

- Turn off the receiver and transmitter every 24 hours, and then turn them on again.
- Use the [Timed Restart] function (see page 31).

■ About wired LAN

Take sufficient shielding measures at a location where static electricity tends to be generated before using the product.

When using the product at locations where lots of static electricity is generated such as carpet, wired LAN communication tends to be disconnected. In this case, use an antistatic mat, etc. to eliminate the problematic static electricity and noise source from the area surrounding this product and cables.

On rare occasions, LAN connection may not be established due to static electricity or noises. In this case, turn off the power of the product and devices connected to this product once, and then turn on the power of them again.

When there is equipment that generates strong radio waves in the vicinity, install the product sufficiently away from such equipment.

■ Cleaning and maintenance

First, remove the mains plug from the mains socket.

Gently wipe the surface of the case by using a soft cloth to remove dirt.

- To remove stubborn dirt or fingerprints, dampen a cloth with diluted neutral detergent (1 part detergent to 100 parts water), wring out the cloth firmly, and then wipe away the dirt. Finally, wipe away all the moisture with a dry cloth.
- If water droplets get inside the unit, operating problems may result.

Usage of a chemical cloth

- Follow the instructions for the chemical cloth.

Avoid contact with volatile substances such as insect sprays, solvents and thinner.

- This may cause damage to the case or cause peeling of the paint. Furthermore, do not leave it in contact with a rubber or PVC substance for a long time.

Note when using alcohol

- Soak a small amount of alcohol at a concentration of 60 % or less in a soft cloth and wipe the housing. Then be sure to use a dry cloth to wipe it.
  Note that wiping the housing with a hard cloth or rubbing it strongly may cause damage. Also, do not allow water droplets to enter the inside to prevent malfunction. Do not directly spray alcohol.
- Do not use antiseptic solutions other than alcohol.

■ Disposal

When disposing the product, ask your local authority or dealer about the correct methods of disposal.

Network port information

This product uses the following network ports to transmit images, audio, and control signals via wireless communication.

List of ports to be used

	PORT	STATE	Description
UDP	67/udp	open	DHCP server
	1900/udp	open|filtered	SSDP-UPNP protocol
	2425/udp	open|filtered	Transmitter/Receiver commnucation and transmission
	34303/udp	open|filtered	main process random port
	63630/udp	open|filtered	Transmitter/Receiver commnucation and transmission
TCP	PORT	STATE	Description
	53/tcp	open	DNS server
	80/tcp	open	Web server. FW Update
	443/tcp	open	FW Update
	2425/tcp	open	Transmitter/Receiver commnucation and transmission
	2426/tcp	open	Transmitter/Receiver commnucation and transmission
	7171/tcp	open	Wireless Display Streaming
	7250/tcp	open	Wireless Display Infrastructure
	38207/tcp	open	main process random port
	63630/tcp	open	Transmitter/Receiver commnucation and transmission

∗ A port to be used may vary depending on the firmware version or settings of the product.

Notes on the wireless function of this product

The wireless function of this product uses radio waves in the 2.4 GHz/5 GHz (W52)/6 GHz bands.
Be sure to read and fully understand the following items before use.

Use this product indoors.

- This product is a wireless device that uses the 5 GHz (W52) and 6 GHz bands. Using the this product outdoors is prohibited by the Radio Act.

If at all possible, avoid the use of cellular phones, TV sets or radios near the product.

- Cellular phones, TV sets, radios and similar devices use different radio bands from the product, so there is no effect on wireless communication or the transmission and reception of these devices. However, radio waves from the product may produce audio or video noise.

Wireless communication radio waves cannot penetrate steel reinforcements, metal, concrete, etc.

- Communication is possible through walls and floors made from materials such as wood and glass (except glass containing wire mesh), but not through walls and floors made from steel reinforcements, metal, concrete, etc.

The product may not work properly due to strong radio wave from the broadcast station or the radio.

- If there is any facility or equipment, which outputs strong radio wave, near the installation location, set up the product at a location sufficiently far from the source of the radio wave.

Using the product outside the country

- It is forbidden to take the product outside the country or region where you purchased it, so use it only in the said country or region. Also, note that depending on countries or regions there are restrictions on the channels and frequencies at which you can use the wireless LAN.

Using receivers

- Up to 24 receivers (all receivers in 6 GHz mode) or 4 receivers (all receivers in the 5 GHz band) can be installed for this product in the same room. To ensure operations, configure the settings in such a way that radio frequencies output from each receiver do not duplicate with each other.
- Receivers installed in more than one rooms can be used by configuring the settings in the same way as above to avoid duplication of radio frequencies, depending on the state of radio waves leaked from receivers installed in other rooms. However, if the receivers do not operate normally due to interference etc., take necessary measures such as extending the straight-line distance between receivers in each room.

Using in 6 GHz mode

- When using wireless mode at 6 GHz, use a mobile device that supports 6 GHz wireless connection.
- This product is equipped with a PSC (Preferred Scanning Channel) function. With this function, when [Wireless Channel] is set to [Auto], this device will prioritize selecting channels that are more likely to provide a stable connection.
- When [Wireless Channel] is set to a fixed channel, the SSID may not be displayed when set to a specific channel on some mobile devices.

Declaration of Conformity (DoC) for EU:

“Hereby, Panasonic Projector & Display Corporation declares that this product is in compliance with the essential requirements and other relevant provisions of the Directive 2014/53/EU.”
If you want to get a copy of the original DoC of this product, please visit the following website:
http://www.ptc.panasonic.eu
Authorized Representative:
Panasonic Connect Europe GmbH
Panasonic Testing Centre
Winsbergring 15, 22525 Hamburg, Germany
Indoor use restrictions are to be followed for the following countries if using 5 GHz frequency band.

AT	BE	BG	HR	CY	CZ	DK	EE	FI	FR	DE	EL	HU	IS	IE	IT	LV
LI	LT	LU	MT	NL	NO	PL	PT	RO	SK	SI	ES	SE	CH	TR	UK(NI)	

Declaration of Conformity (DoC) for UK:

“Hereby, Panasonic Projector & Display Corporation declares that this product is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017.”
If you want to get a copy of the original DoC of this product, please visit the following website:
http://www.ptc.panasonic.eu
Importer for UK:
Panasonic Connect UK, a branch of Panasonic Connect Europe GmbH, Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT
Indoor use restrictions are to be followed for the UK if using 5 GHz frequency band.

WLAN: Maximum Power
18 dBm (2.400 GHz - 2.483.5 GHz) 16 dBm (5.150 GHz - 5.250 GHz) 15.5 dBm (5.945 GHz - 6.425 GHz)

Request Regarding Security

When using this product, take safety measures against the following incidents.

- Personal information being leaked via this product
- Unauthorized operation of this product by a malicious third party
- Interfering or stopping of this product by a malicious third party
- Set a password restrict the users who can log in.
- Make your password difficult to guess as much as possible.
- It is recommended to use a password different from passwords of PC and other devices.
- Change your password periodically.
- Panasonic Projector & Display Corporation or its affiliate companies will never ask for your password directly. Do not divulge your password in case you receive such inquiries.
- The connecting network must be secured by a firewall, etc.
- When disposing the product, initialize the data before disposing. ([Reset button] (see page 9))

Take sufficient security measures.

Precautions on security when using wireless LAN products

- The advantage of a wireless LAN is that information can be exchanged between a PC or other such equipment and an access point using radio waves as long as you are within range for radio transmissions.
  On the other hand, because the radio waves can travel through obstacles (such as walls) and are available everywhere within a given range, problems of the type listed below may occur if security-related settings are not made.
  - A malicious third-party may intentionally intercept and monitor transmitted data including the content of e-mail and personal information such as your ID, password, and/or credit card numbers.
  - A malicious third-party may access your personal or corporate network without authorization and engage in the following types of behaviour.
    Retrieve personal and/or secret information (information leak)
    Spread false information by impersonating a particular person (spoofing)
    Overwrite intercepted communications and issue false data (tampering)
    Spread harmful software such as a computer virus and crash your data and/or system (system crash)
- Since most wireless LAN adaptors or access points are equipped with security features to take care of these problems, you can reduce the possibility of these problems occurring when using this product by making the appropriate security settings for the wireless LAN device.
- Some wireless LAN devices may not be set for security immediately after purchase. To decrease the possibility of occurrence of security problems, before using any wireless LAN devices, be absolutely sure to make all security-related settings according to the instructions given in the operation manuals supplied with them.
  Depending on the specifications of the wireless LAN, a malicious third-party may be able to break security settings by special means.
  If you cannot perform security settings for your wireless LAN by yourself, please contact the Panasonic dealer.
- Panasonic Projector & Display Corporation asks customers to thoroughly understand the risk of using this product without making security settings, and recommends that the customer make security settings at their own discretion and responsibility.

Main unit and accessories

Check that you have the main unit and accessories shown.

WPS Basic Set TY-WPS2

• **Main unit**

WPS Receiver (TY-WPR2) 1

WPS Transmitter (TY-WPB2) 2

• **Accessories**

AC adaptor (DPVF4970ZA/X1)..... 1 (including 3 conversion plugs)

AC adaptor cable (DPVF4960ZA/X1)..... 1

HDMI cable (DPVF4971ZA/X1)..... 1

USB extension cable (DPVF3513ZA/X1)..... 2

Receiver mounting bracket (see page 53) 1

Transmitter case (DPVF5002ZA/X1)..... 1

WPS USB-C Basic Set TY-WPSC2

• **Main unit**

WPS Receiver (TY-WPR2) 1

WPS USB-C Transmitter (TY-WPBC2)..... 2

• **Accessories**

AC adaptor (DPVF4970ZA/X1)..... 1 (including 3 conversion plugs)

AC adaptor cable (DPVF4960ZA/X1)..... 1

HDMI cable (DPVF4971ZA/X1)..... 1

Conversion adaptor for pairing (DPVF3516ZA/X1)..... 1

Receiver mounting bracket (see page 53) 1

Transmitter case (DPVF5002ZA/X1)..... 1

WPS Transmitter TY-WPB2

• **Main unit**

WPS Transmitter (TY-WPB2) 1

• **Accessories**

USB extension cable (DPVF3513ZA/X1)..... 1

WPS USB-C Transmitter TY-WPBC2

• **Main unit**

WPS USB-C Transmitter (TY-WPBC2)..... 1

• **Accessories**

Conversion adaptor for pairing (DPVF3516ZA/X1)..... 1

WPS Receiver TY-WPR2

• **Main unit**

WPS Receiver (TY-WPR2) 1

• **Accessories**

AC adaptor (DPVF4970ZA/X1)..... 1 (including 3 conversion plugs)

AC adaptor cable (DPVF4960ZA/X1)..... 1

HDMI cable (DPVF4971ZA/X1)..... 1

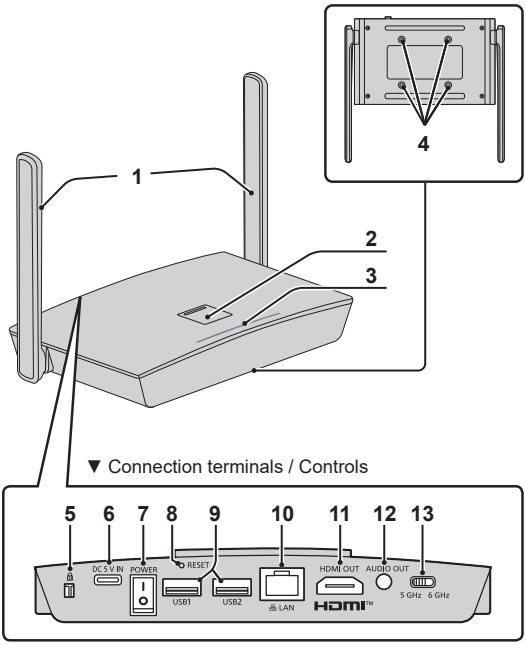
Receiver mounting bracket (see page 53) 1

Attention

- Store small parts in an appropriate manner, and keep them away from young children.
- The part numbers of accessories are subject to change without notice. (The actual part number may differ from the ones shown above.)
- In case you lost accessories, please purchase them from your dealer. (Available from the customer service)
- Dispose the packaging materials appropriately after taking out the items.

Part Names

■ Receiver (TY-WPR2)



1 Antenna

2 FUNCTION button / LED
Used to display the status of this unit and for the remote pairing function.

3 Indicator
Displays the power supply status, and connection statuses of LAN and USB.

4 Screw holes for mounting bracket (page 53)
Used to attach the receiver to the mounting bracket.

▼Connection terminals / Controls

5 Security Slot
This security slot is compatible with a Noble Wedge slot.

6 Power input terminal

7 Power switch
Turns ON (I) / OFF (○) the power of the receiver.

8 Reset button
Restores the product to the factory default state.
Reset operation starts when the reset button is pressed for 5 seconds or more while the power is being supplied.
Initialization will be complete in approx. 1 minute.

9 USB terminal (Type-A)
Connects the transmitter when pairing devices.
Use this by connecting an HID device.

10 LAN terminal (RJ45)
Connects to the network to change the settings of the product.

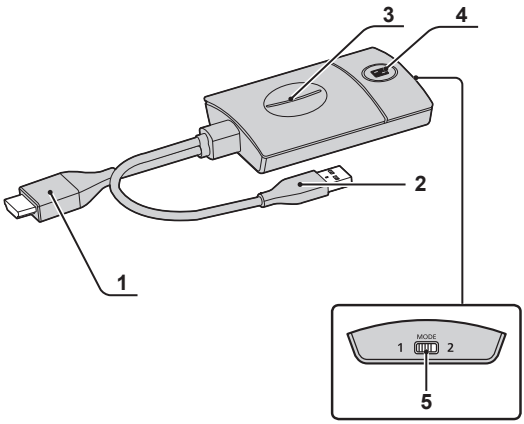
11 HDMI output terminal
Connects an imaging device equipped with HDMI input.

12 Audio output terminal
Connects an external speaker, etc.

13 Radio band selection switch (page 15)
Switches depending on the band used (5 GHz or 6 GHz).

*** HID device**
A compatible mouse operates.
These can be used only with one screen display. After the USB cable of the HID device is connected, “Hid Driver loading…” appears. When this message disappears, the device can be used.

■ Transmitter (TY-WPB2)



1 HDMI input terminal
Connect to an imaging device equipped with HDMI output.

2 USB terminal (Type-A)
Connect to a USB power supply device.

3 Main button / LED
Switches between on and off of image display.

4 Sub button / LED
Switches to the multi-screen mode.

5 Mode switch
Switching the mode switch allows the resolution (EDID) output from the transmitter to be changed.

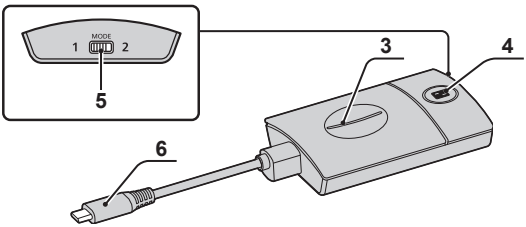
- Mode 1:
  Maximum output resolution is 1920×1080 60p.
- Mode 2:
  Maximum output resolution is 3840×2160 30p.

Note

- When the transmitter is connected for the first time after the mode switch is switched, the operation may become unstable depending on the PC to be used. In this case, disconnect the transmitter once and reconnect it, or reboot the PC.
- When using the transmitter in combination with the WPS1 series receiver, use “Mode 1”.

6 USB terminal (Type- C)
Connect to an imaging device with a USB Type-C terminal that supports DisplayPort Alt Mode output.

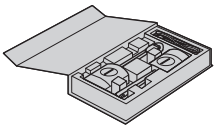
■ USB-C transmitter (TY-WPBC2)



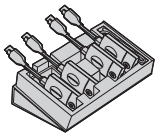
■ Transmitter case

2 (max. 4) transmitters and the USB extension cable (supplied with the TY-WPS2 / TY-WPB2) can be stored.

<2 transmitters>



<4 transmitters>



Regarding connection with WPS1 series devices

This device is compatible with WPS1 series (TY-WPB1, TY-WPBC1, TY-WPR1, TY-SB01WP).
These series can be used in combination with WPS2 transmitters and receivers, but there are some cases where they cannot be used. See the notes below for details.

Note

- When using in combination with WPS1 series devices, set the frequency band of the WPS2 receiver to 5 GHz. WPS1 series devices do not support the 6 GHz frequency band.
- When using in combination with WPS1 series devices, The resolution setting of 3840 x 2160 input to WPS2 transmitter is not available. When set to 3840 x 2160, images may not be displayed, or delays may occur.
- When using a WPS1 series receiver and WPS2 series transmitter in combination, set the mode switch of the WPS2 series transmitter to “Mode 1”.
- When using in combination with WPS1 series devices, the function to pair the receiver and transmitter remotely via wireless LAN is not supported.
- When using in combination with WPS1 series devices, multicasting that does not use a router (routerless multicast) is not supported.
- It is not possible to upgrade WPS2 series devices using the method for upgrading WPS1 series devices.
- It is not possible to upgrade WPS1 series devices using the method for upgrading WPS2 series devices.

Connection

Before connection, carefully read the operation manual of the device to be connected to this system.
Turn off the power of each device before connecting cables.

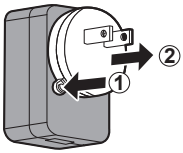
Connecting the receiver

1 Connect the AC adaptor and AC adaptor cable to the receiver for power supply.

Use an AC adaptor conversion plug that fits the shape of outlet.

<How to remove>

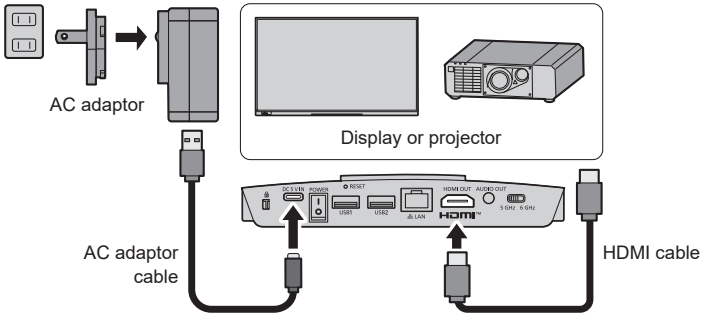
① **Press the button**
② **Remove the plug**



Note

• Do not remove the AC adaptor conversion plug while it is connected to the outlet.

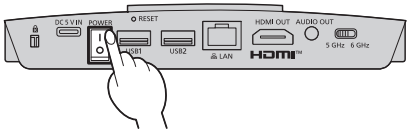
2 Connect a display device such as a display and projector to the receiver with HDMI cable.



Note

• For power supply to the receiver, use the supplied AC adaptor or a USB power supply device with 5 V/2 A.

3 Press the “I” side of the power switch on the receiver to turn on the power. When a standby screen is displayed on the display device, the receiver has completed preparation.

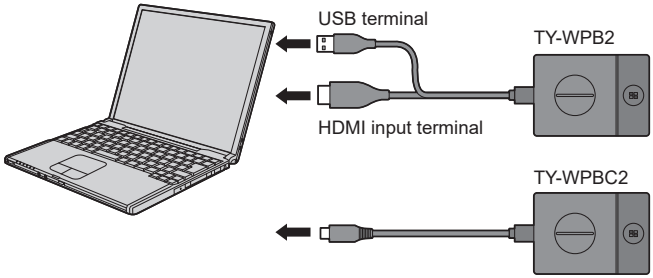


Standby screen

Connecting the transmitter

1 Connect the USB terminal and HDMI input terminal of the transmitter to the image output device.

- For power supply to the transmitter, 5 V/0.9 A power supply is necessary.

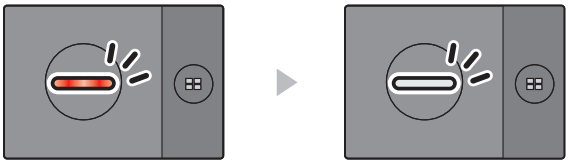


For the USB-C transmitter, connect the USB terminal (Type-C) to the image output device.

Note

- The USB Type-C terminal of an image output device requires the following functions. Confirm the specifications of the device before using.
  - DisplayPort Alt Mode (image output function)
  - Function to supply power to the connected device (5 V/0.9 A)
  - Connect the transmitter while the image output device is already booted.

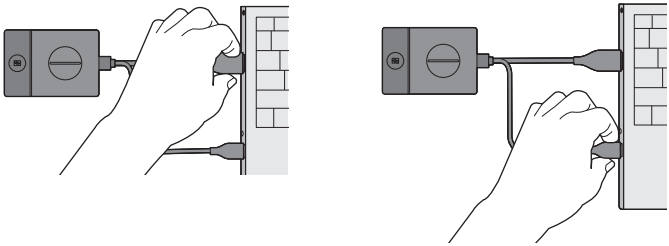
2 Main LED changes from red blinking (connecting) to white illumination (standby).



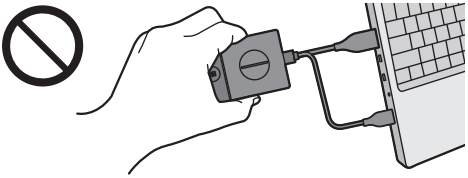
Red blinking (connecting) White illumination (standby)

Notes on handling the transmitter

When disconnecting the transmitter from a computer, hold the cable connector to remove it.



Pulling on the cable by holding the transmitter will put stress on the cable and result in a malfunction.



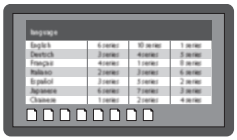
Single connection

This section describes how to display an image using one transmitter.

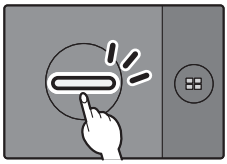
1 Press the main button of the transmitter while the standby screen is displayed.

The image is displayed.

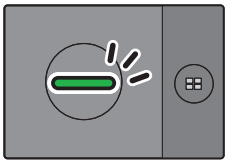
Standby screen



Full screen display



White illumination
(standby)



Green illumination
(display)

Pressing the main button again changes the main LED to white and returns to standby state. (The screen returns to the standby screen as well.)

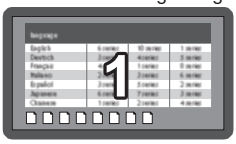
- When using multiple transmitters, the image is switched to the image of the transmitter of which the main button is pressed.

Multi connection

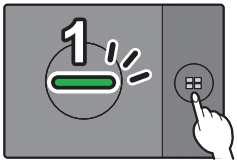
This section describes how to display images simultaneously using multiple transmitters.
Images of up to 4 transmitters can be displayed simultaneously.

1 Press and hold the sub button of the transmitter for 1 second or more during full screen display.

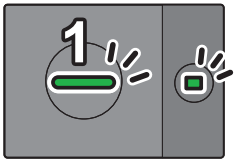
The sub LED changes to green illumination, and the multi-screen mode is enabled.



Full screen display



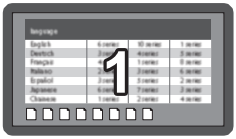
Sub LED
OFF



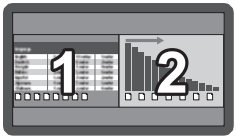
Sub LED
Green illumination
(Multi-screen mode)

2 Press the main button of the transmitter of which the image is to be added.

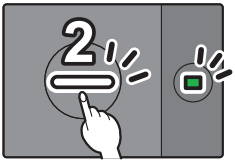
The image is added.



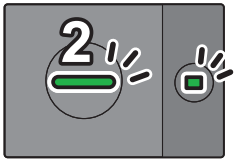
Full screen display



Multi-screen display



White illumination (standby)
Sub LED Green illumination



Green illumination
Sub LED Green illumination

Note

- Audio is not output during multi-screen disuplay.

Multi-screen mode cancellation

Press and hold the sub button of the transmitter for 1 second or more.

- The sub LED changes from green illumination to OFF state, and the multi-screen mode is canceled.
- The multi-screen mode can be canceled only when the main LED is lighting green.

Characteristics of the radio band used by this product and switching between them

- This product has a function to switch the radio band connecting the transmitter and receiver.
  Mode using 5 GHz band : 5G mode
  Mode using 6 GHz band : 6G mode
- Switch using the radio band selection switch (page 9) on the receiver or from the web settings page.
- Even in 6G mode, radio waves of other frequencies may be output.
- Pairing with the transmitter is required when switching between 5G mode and 6G mode.

Note

- When switching between 5G mode and 6G mode using the switch, turn on the power of the receiver before switching the mode.
  The mode cannot be switched if the switch is switched while the receiver is turned off.
- If the transmitter is not paired when the mode is switched, the pairing state with the transmitter will be maintained in the original mode.
- In 6G mode, the usable range is narrower than in 5G mode, without distortion or interruption in video or audio. This is due to the difference in maximum radio wave output based on the law.
- Especially when using 6G mode, transmission capabilities may be significantly reduced if there is a shield between the transmitter and receiver. When using 6G mode, install the receiver within the range where the receiver's antenna is visible.
  Be especially careful in the following cases:
  - When installing behind a display, etc.
  - When installing next to a projector mounted on the ceiling
  - When installing in a rack

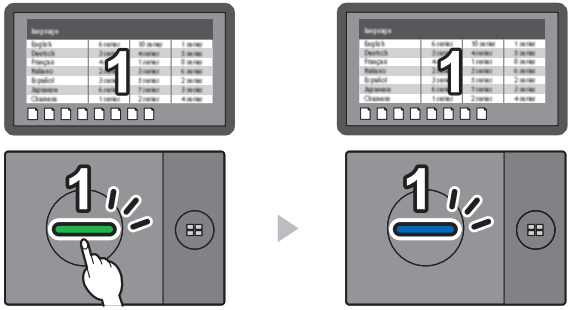
Fixing image switching (fixed mode)

When images of 1 transmitter are displayed with multiple transmitters paired and used, you can make a setting that prohibits switching to images of another transmitter.
This setting prevents accidental image-switching operation.

Setting the fixed mode

Press and hold the main button of the transmitter for 1 second or more while an image of one transmitter is displayed.

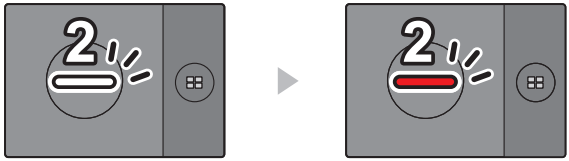
The main LED changes from green illumination to blue illumination, and the fixed mode is enabled.



Green illumination

Blue illumination
(fixed mode)

Other transmitters



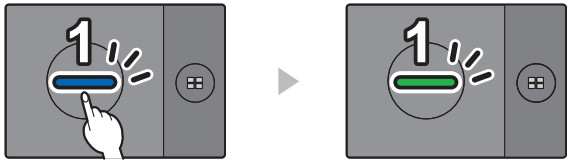
White illumination
(standby)

Red illumination
(operation disabled)

Canceling the fixed mode

Press and hold the main button of the transmitter for 1 second or more.

The main LED changes from blue illumination to green illumination, and the fixed mode is canceled.



Blue illumination
(fixed mode)

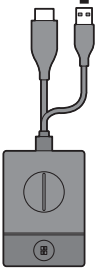
Green illumination
(fixed mode canceled)

Transmitter Extension Method (Pairing)

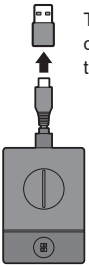
Pairing settings have been made for transmitter and receiver of TY-WPS2 / TY-WPSC2 / Basic Set.

Pairing by connecting the receiver and transmitter

1 Connect the USB terminal of the transmitter to the USB terminal of the receiver / receiver board.



TY-WPB2



TY-WPBC2

To connect the TY-WPBC2, use the conversion adaptor for pairing supplied with the TY-WPSC2/TY-WPBC2.

Wait for a while until the LED of the receiver blinks in white. Then, pairing starts automatically.
“Pairing…” (pairing in progress) is displayed on the standby screen.

2 Pairing is complete.

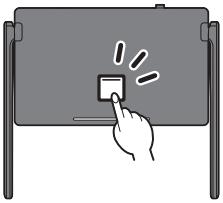
“Pairing OK” is displayed and the LED of the receiver lights up in white.

3 Remove the USB cable of the transmitter from the receiver.

Pairing the receiver and transmitter remotely via wireless LAN

1 Press and hold the FUNCTION button of the receiver for 5 seconds or more.

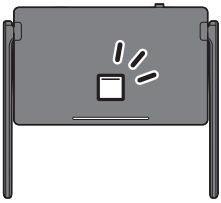
The LED of the FUNCTION button lights up in white.



Or

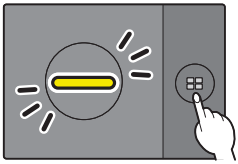
Press [Pairing setting] on the Web setting screen.

[Pairing Settings] screen is displayed. You can also perform pairing remotely by following the on-screen instructions.
The LED of the FUNCTION button lights up in white.

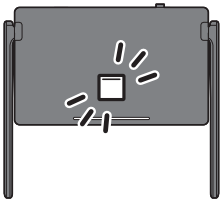


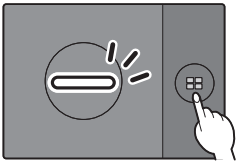
2 Connect the transmitter you want to pair to the computer and wait 15 to 20 seconds, then press the sub button five times in succession.

The main LED of the transmitter flashes yellow.



After a moment, the FUNCTION button of the receiver will flash white and main LED of the transmitter will light up in white.





[Pairing OK] is displayed on the receiver screen and the LED of the FUNCTION button lights up in white.

3 Remove the transmitter from the computer.

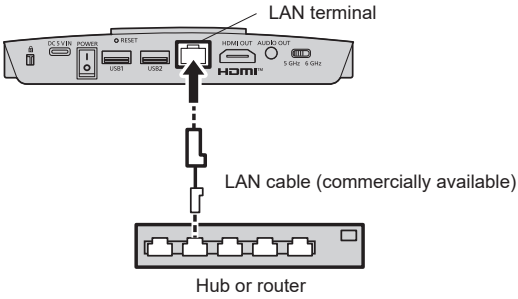
Note

- When the receiver is in remote pairing status, connection to other wireless LAN devices is not possible.
- When pairing is performed from the web settings screen, we recommend accessing via a wired LAN cable or SSID “DIRECT-****”. If you start pairing settings while accessing with SSID “PressIT_****”, the SSID connection will be temporarily disconnected.
- WPS1 cannnot pair the receiver and transmitter remotely via Wi-Fi.

About LAN Connection

Since this product is equipped with a network function, connecting the product to a network by wire or wirelessly enables remote control of the product.

■ Wired LAN connection



In the initial setup, the IP address of the receiver is assigned a fixed IP address. The assigned IP address is displayed on the standby screen (page 22 ⑥). To manage the receiver (TY-WPR2), use this IP address for connection.

Note

- For LAN cable, use shielded cable, otherwise picture noise may be caused.
- Touching the LAN Terminal with a statically charged hand (body) may cause damage to the device due to its discharge.
  Do not touch the LAN Terminal or the metal part of the LAN cable.

■ Wireless LAN connection

Using the wireless function of the receiver (TY-WPR2) enable the product to be connected to an external wireless access point or mobile wireless LAN router (only for 5 GHz or 6 GHz wireless LAN), and an external network or the Internet.
Make the connection setting in [Network Management] on the Web setting screen. (page 28)

Note

- Connecting to a network and display an image (mirroring) using the wireless LAN connection function of this product increases the possibility of the image to be stuck or noise to be generated. It is recommended that connecting to an external wireless LAN be restricted to the cases such as execution of firmware update.

Using with Android device (Android 5.0 and later versions)

Using the following two methods allows images on an Android device to (Android 5.0 and later versions supported) be projected (mirroring) on a display or projector. Wireless LAN, security measures, etc. can be used according to the usage environment.

1 Use an app on the Android device and connect the device to the wireless LAN coming from the receiver.
2 Use an app on the Android device and connect the device to the external wireless LAN.

1 Use an app on the Android device and connect the device to the wireless LAN coming from the receiver

When mirroring is performed with this method, the Android device cannot be connected to Internet.
Use method 2 to perform mirroring with the device connected to Internet.

1 Connect the receiver to the display device with the HDMI cable, and turn on the receiver. (page 12)

The standby screen appears. “About the standby screen” (page 22)

2 Install the dedicated app [PressIT] on the Android device from the Google Play Store.

You can also scan the QR code below to install the app.

3 Connect the Android device to the wireless LAN coming from the receiver.

SSID and a password necessary for wireless LAN connection are displayed on the lower left of the standby screen. Turn on the wireless LAN function of the Android device and select SSID displayed on the standby screen.
* For the Android device setting method, see the user’s manual of your device.

4 Start up the [PressIT] app.

An image with the same design as that of the transmitter is displayed on the Android device. Tap the main button of the transmitter on the screen. (The Android OS may provide a notification. Operate the device according to the notification.)

5 Mirroring starts.

2 Use an app on the Android device and connect the device to the external wireless LAN

Note

- Before launching the dedicated app, make sure that the receiver and Android device are connected to the same wireless LAN. (page 26)

1 Connect the receiver to the display device with the HDMI cable, and turn on the receiver. (page 12)

The standby screen appears. “About the standby screen” (page 22)

2 Install the dedicated app [PressIT] on the Android device from the Google Play Store.

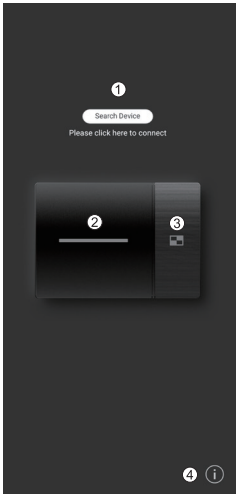
You can also scan the QR code below to install the app.

3 Start up the [PressIT] app.

An image with the same design as that of the transmitter is displayed on the Android device. Tap the main button of the transmitter on the screen to display. (The Android OS may provide a notification. Operate the device according to the notification.)

4 Mirroring starts.

■ About PressIT app



① Click [Search Device] to display the list of receivers (SSIDs that have been set) on the connected network.
Make connection to the display device.

② Performs the same operation as that of the main button of the transmitter.

③ Performs the same operation as that of the sub button of the transmitter.

④ Displays the Android app information.

The illustration at left shows the connected state. In this case, images are displayed.
When returning to the home screen or operating another app without exiting the app, those images are projected (mirroring).

Note

- Copyright-protected content cannot be displayed.
- Motion pictures may not be displayed smoothly depending on the processing capability of the Android device or network conditions.
- When making connections on the network to which multiple receivers are connected, there are multiple display devices. Make sure that correct display devices are connected.

Setting

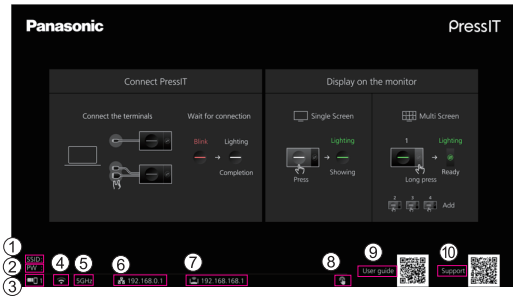
Connect to the Web page of the receiver to configure the settings of this system.

About the standby screen

Turn on the receiver to display the standby screen on the display device.

Note

- For connecting the receiver and display device, see “Connecting the receiver” (page 12).



① Displays SSID. This is used when directly connecting from PC or mobile devices.

② Displays the password. This is used when directly connecting from PC or mobile devices.

③ Displays the number of mobile devices connected via wireless LAN of the transmitter or receiver, or connected via external wireless LAN.

④ Displayed when connected to a wireless access point or router.

⑤ Displays the frequency used to connect the receiver and transmitter. (5 GHz or 6 GHz)

⑥ Displayed when connected to an external network (LAN) via a wired LAN or external wireless LAN access point. Use this IP address when connecting from an external network to the receiver.

⑦ Receiver’s IP address for wireless LAN. Use this IP address for wireless LAN connection.

⑧ Displayed when a mouse or a touch module of the display is connected to the USB terminal of the receiver.

⑨ Displays the QR code linked to the site for downloading the operating instructions.

⑩ Displays the QR code linked to the site for support/FAQ.

Note

- Select [Device Management] - [Language] to change the displayed language. (page 29)
- When [Wireless Display] is set to [ON], this device uses two SSIDs. When [Wireless Display] is set to [ON], “SSID (DIRECT-****)” for [Wireless Display] is displayed on the standby screen.

■ When connecting for the first time immediately after purchase

Connection to the Web setting screen can be made wirelessly or via a wired LAN cable.

Note

When some of the settings are changed on the Web setting screen, the receiver needs to be rebooted. When connection to the Web setting screen is made wirelessly, the connection with a PC or mobile device may be cut off at the reboot timing, resulting in Web disconnection. Therefore, using a wired LAN cable is recommended for connection.

●For connection via a wired LAN cable (recommended)

① Connect the PC and WPS2 receiver using a LAN cable.

② Set the local network (Ethernet) of the PC to 192.168.0.***.

③ Start up the browser on the PC, and enter 192.168.0.8.

④ The Web setting screen is displayed.

• When the settings of this unit are in the factory default state, this unit can be used as is by configuring the network settings on the computer side as shown below.

[IP address]	192.168.0.10
[Subnet mask]	255.255.255.0
[Default gateway]	192.168.0.1

●For wireless connection

① Access the SSID described on the WPS2 standby screen from the PC or mobile device.

② Start up the browser on the PC or mobile device, and enter 192.168.0.8.

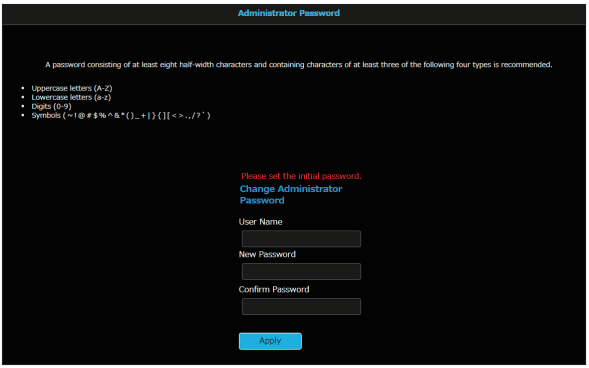
③ The Web setting screen is displayed.

Note

- When [Wireless Display] is set to [ON], this unit uses two SSIDs.
  When [Wireless Display] is set to [ON], “SSID (DIRECT-****)” for [Wireless Display] is displayed on the standby screen.
  The Web setting screen can be accessed from either of the SSIDs.
- When the Web setting screen is accessed wirelessly, rebooting the receiver cuts off the connection with the PC. When the connection with the PC is cut off, selecting the SSID from the PC again allows for accessing the Web setting screen again.
- When the wireless mode is used with 6 GHz, the SSID cannot be searched for unless the PC or mobile device supports the 6 GHz wireless connection.
  When using a PC or mobile device that does not support 6 GHz, use “SSID (DIRECT-****)” for [Wireless Display], and access the screen.
- When [Wireless Display] is set to [OFF] while a PC or mobile device that does not support 6 GHz is used, wireless access will be disabled.
  When the SSID cannot be accessed wirelessly, switch the wireless mode to 5 GHz to access the 5 GHz SSID, or press and hold the reset button on the receiver to restore the setting to the factory default state.
- When [Multicast] is set, “SSID (DIRECT-****)” for [Wireless Display] is disabled during setting. So use a method other than “SSID (DIRECT-****)” for [Wireless Display], and access the screen. Then configure the setting.

Login to the Web setting screen

User ID and password need to be set when connecting to the Web page of the receiver immediately after purchase or after initialization by pressing the reset button of the receiver.



Note

- Password consisting of at least eight half-width characters and containing characters of at least three of the following four types need to be set.
  Uppercase (A-Z)
  Lowercase (a-z)
  Numbers (0-9)
  Symbol (~!@#$%^&*()_+|}{[]<>.,/?`)
- If a wrong user ID or a wrong password is entered several times, the web access page is locked. If the page is locked, enter the correct user ID or the correct password again.

Displaying the Web setting screen

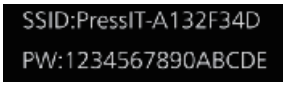
■ About web browsers

We recommend using the web browsers shown below to operate the Web setting screen.

Chrome	Version 120.0.6099.129 and later versions	Firefox	Version 121.0.0 and later versions
Edge	Version 120.0.2210.91 and later versions	Safari	Version.17.2.1 and later versions

■ When configuring the settings in an environment without wireless access point in the surrounding area

Connect to the wireless LAN of the receiver and open the Web setting screen. Note that while operating the web settings using this method, the mobile device cannot be connected to Internet temporarily. SSID and a password necessary for wireless LAN connection are displayed on the lower left of the standby screen.



1 Turn on wireless LAN of the PC or mobile device and select SSID displayed on the standby screen.

Above example: PressIT-A132F34D

2 Enter the wireless LAN password.

Above example: 1234567890ABCDE

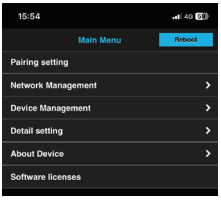
3 After the connection is complete, enter the IP address displayed on the lower right of the standby screen into the address bar of the web browser, and press Enter.

* The IP address on the image is an example and may be different depending on the environment.

When connection is established correctly, the Web setting screen is displayed.

Web setting screen when accessed from PC

Web setting screen when accessed from smartphone

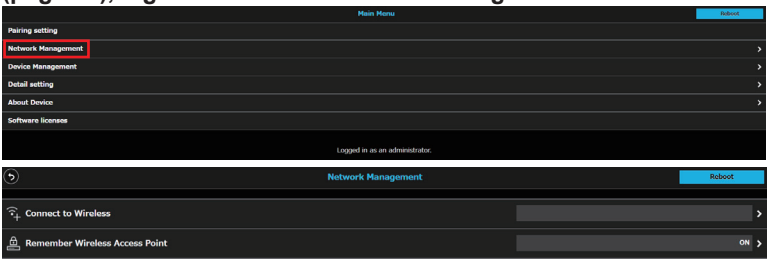


■ When configuring the settings in an environment where wireless LAN access point can be used freely

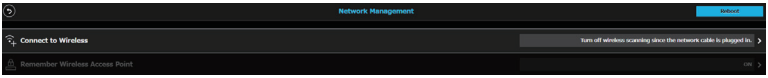
Connect the receiver to the external wireless LAN and open the Web setting screen. You can also connect to the external wireless access point different from the wireless access point coming from the receiver to open the Web setting screen. The advantage of this method is that logging in to the Web setting screen is possible with the mobile device connected to the network. However, the password of the external wireless access point must be obtained beforehand.

Obtain the password, etc. from the system administrator managing the local network.

1 After opening the Web setting screen with the procedure in “When configuring the settings in an environment without wireless access point in the surrounding area” (page 25), log in and select “Network Management”.



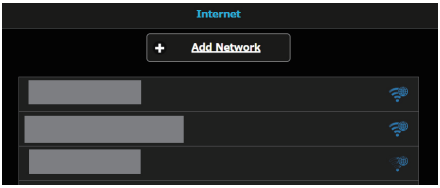
2 Click “Connect to Wireless”.



* When a network cable is connected to the receiver, the wired LAN connection is prioritized.

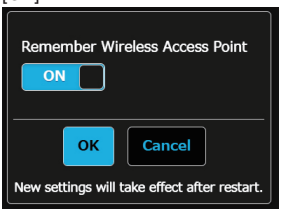
3 Select SSID to connect and enter the password.

This is a state where connection to Internet is established via external wireless access point.



When the receiver is connected to the external wireless access point, the wireless LAN icon is displayed on the lower left of the standby screen.

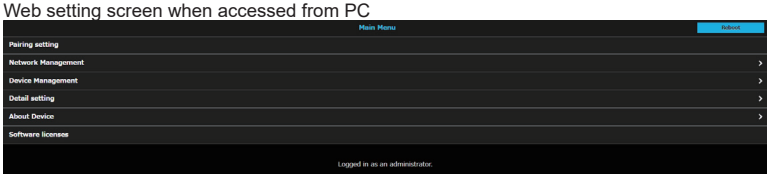
To store the external wireless access point in the receiver, set [Remember Wireless Access Point] to [ON] and click [OK].



4 To open the Web setting screen from the PC or mobile device, confirm that it is connected to the same wireless access point as that of the receiver, enter the IP address displayed on the lower into the address bar of the web browser, and press Enter.

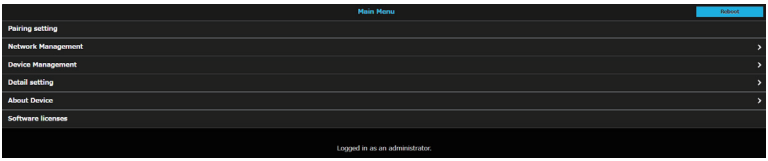
When connection is established correctly, the Web setting screen is displayed.

Web setting screen when accessed from PC



Configuring various settings on the Web setting screen

Settings including [Device Management], [Network Management] and [Detail Settings] can be changed on the Web setting screen.



Note

- After settings are changed, some of the changed settings are reflected by rebooting the receiver.
  After changing all items to be set, press the [Reboot] button on the upper right of the Web setting screen to reboot the receiver.

■ Pairing setting

Activates pairing mode on the receiver.
“Pairing the receiver and transmitter remotely via wireless LAN” (→page 18)

■ Network Management

The receiver can be connected to an external wireless LAN via an external wireless access point.

Note

- A wired LAN cannot be used in combination.

● Connect to Wireless

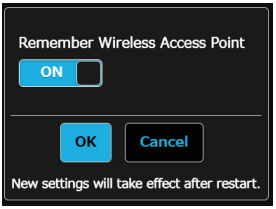
This product supports only the wireless access points using the 5 GHz/6 GHz band.
Enter the SSID and wireless password necessary to connect the mobile device and the receiver to the same wireless access point.

● Remember Wireless Access Point

The password connection information of the wireless access point once connected can be stored in the receiver.

ON: Stores the external wireless access point settings in the receiver.

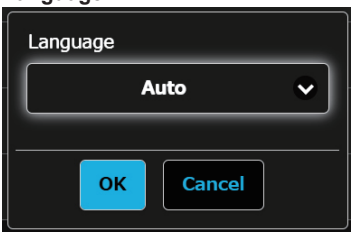
OFF: Deletes the external wireless access point settings stored in the receiver.



■ Device Management

The Web setting screen has setting options such as Language and Resolution.

● Language

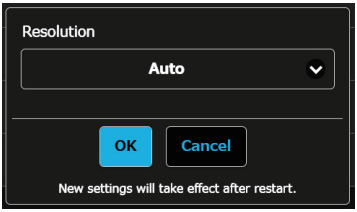


Supports English and Japanease. The Web setting screen and standby screen are displayed in the selected language.

Note

- When the language is set to [Auto], the languages on the Web control screen and standby screen of the receiver are changed according to the language setting of the PC from which the Web setting screen is accessed.
  When the language on the PC is set to Japanese: Japanese
  When the language on the PC is set to a language other than Japanese: English
- When this unit is connected to some of the displays made by Panasonic, the language setting of this unit is changed by the “Language link” function.
  For details, refer to the Operating Instructions of the display.
  (Applicable to displays made by Panasonic equipped with the “Language link” function)
  When the language on the display is set to Japanese: Japanese
  When the language on the display is set to a language other than Japanese: English
  The linkage function works when the [Language link] on the display is enabled.

● Resolution

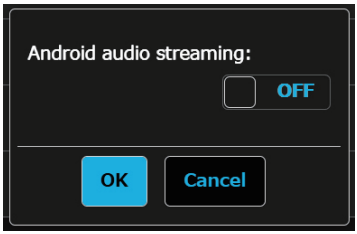


This product automatically detects an output resolution suitable for the display. The resolution can be changed manually.
The standard output resolution is 3840 x 2160 (30fps). Up to 3860 x 2160 (30fps) or 4096 x 2160 (24fps) of resolution is supported.
3840 x 2160 (30fps) is generally called 4K.

Note

- This function reflects the changed setting by rebooting the receiver.
  After completing all required settings on the Web setting screen, press the [Reboot] button on the upper right of the Web setting screen to reboot the receiver.

Android audio streaming



Specifies whether to output the audio of Android from the display device connected to the receiver.
ON: Enables the function.
OFF: Disables the function.

About [PressIT] app

Displays the audio output status using the Android app dedicated to [PressIT]. (App version 0.0.14 and later)

Audio output status display added

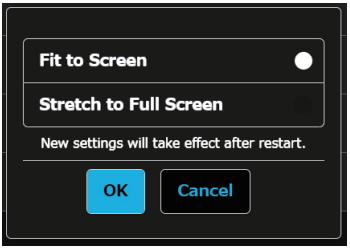
Audio output on the Android device

Audio output on the display/ projector

Note

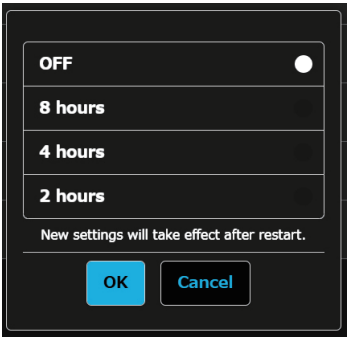
- Since this function uses the Bluetooth function on the Android device, enable Bluetooth on the setting menu.

Screen mode



Adjusts the size of images.
Fit to Screen: Displays images with the aspect ratio of input signals.
Stretch to Full Screen: Displays images in full screen.

Timed Restart

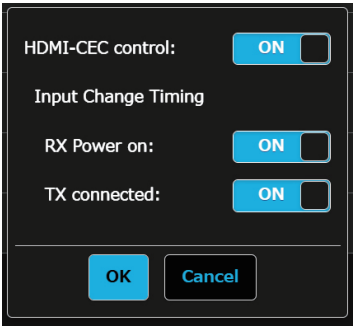


Restarts after the time selected on the menu has elapsed when no operation is performed.

Note

- This function reflects the changed setting by rebooting the receiver.
  After completing all required settings on the Web setting screen, press the [Reboot] button on the upper right of the Web setting screen to reboot the receiver.

HDMI-CEC control



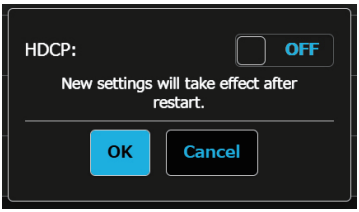
Sets the link function with a display or projector.

Input Change Timing

RX Power on
Sets the function to turn the power ON or switch input when the receiver is turned on.
ON: Enables the function.
OFF: Disables the function.

TX connected
Sets the function to turn the power ON or switch input when the transmitter is turned on.
ON: Enables the function.
OFF: Disables the function.

HDCP



This switches the HDCP setting On or Off.
When inputting a signal with HDCP, set this to [ON].

Note

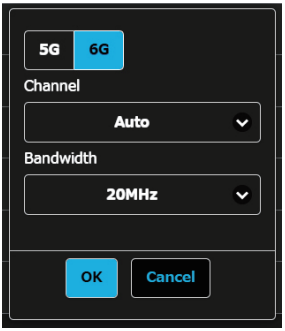
- This function reflects the changed setting by rebooting the receiver.
  After completing all required settings on the Web setting screen, press the [Reboot] button on the upper right of the Web setting screen to reboot the receiver.

■ Detail Settings

This setting function is designed mainly for persons in charge of information system department and network administrators, enabling more detailed setting changes.

● Wireless Channel

Sets the Wireless channel. This product provides the following options.



5G/6G: Selects 5G or 6G.
Channel: Changes the Wireless channel settings.
A channel can be selected manually or automatically with [Auto] at start-up of the receiver.
A channel can be selected from among 24 channels of “1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 53, 57, 61, 65, 69, 73, 77, 81, 85, 89, and 93”.
Bandwidth: Sets the bandwidth of the wireless signal.
A bandwidth can be selected from among “20MHz, 40MHz, and 80MHz”.

Note

- When the channel is set to [Auto], the channel to be set is automatically selected from among 6 channels of “5, 21, 37, 53, 69, and 85”. When multiple receivers are used at the same time and radio wave interference is a concern, configure settings so that each receiver uses an individual channel instead of [Auto].
- Channels with which each receiver is currently operating can be checked in the [Wireless Channel] field displayed by pressing the FUNCTION button of the receiver.
- Note that when the receiver is connected to an external wireless access point, the Wireless channel cannot be set.
- This function reflects the changed setting by rebooting the receiver.

● Signal Strength

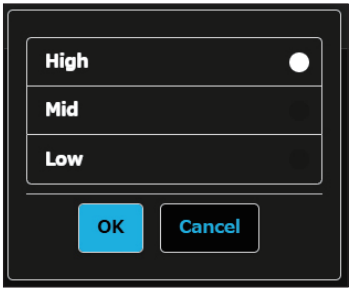
Sets the strength.

Configure this setting to suppress the interference of radio waves generated when multiple transmitters and receivers are installed in proximity.

① Select [Signal Strength] on the [Detail Settings] screen.

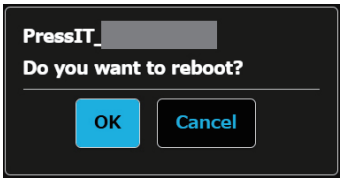
The transmitters connected to the receiver are displayed in the list.
Select a device to be set.
To apply the same setting to the receiver and all transmitters, select [All(RX+TX)].

② Set the strength.



High: Sets the strength of the wireless to the maximum.
Mid: Sets the strength to 70%.
Low: Sets the strength to 40%.

② Set reboot.



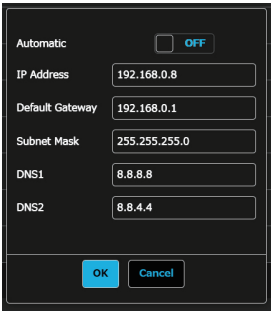
Set whether to reboot the device of which the setting has been changed.
When changing the settings of multiple devices in succession, select [Cancel].

Note

- Reboot is applicable only to the device for which the setting is changed just before the reboot.
- When settings for multiple devices are changed by selecting [Cancel], turn off and on the power manually.

● LAN IP Settings

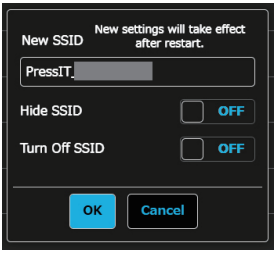
Network settings can be manually configured including IP address, gateway, netmask and DNS server.



The settings are shown below when connecting to the Web page of the receiver immediately after purchase or after initialization by pressing the reset button of the receiver.
Automatic : OFF
IP Address : 192.168.0.8
Default Gateway : 192.168.0.1
Subnet Mask : 255.255.255.0
DNS1 : 192.168.0.1
DNS2 : (blank)

● SSID

Changes the name of SSID, hides SSID and disables SSID.



Hide SSID: Setting this to [ON] hides SSID displayed on the standby screen.
* Be sure to take a note before setting.

Turn Off SSID: Setting this to [ON] disables the SSID function of the receiver. Communication is disabled between transmitter and receiver. Even if pairing is performed, communication is disabled.

Note

- When [Wireless Display] is set to [ON], this device uses two SSIDs.
- The SSID name used for wireless connection between the receiver and transmitter will be the name set with this function.
- The name of the SSID used for [Wireless Display] is “DIRECT-**** (SSID name)” with “DIRECT-” added to the beginning of the SSID name for this function.
- When the SSID is changed, the setting is reflected by reboot.

Wireless Password

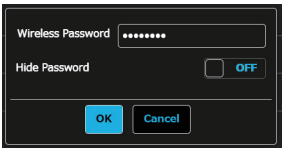
Changes the wireless LAN connection password for the receiver. The administrator can hide the wireless LAN password on the standby screen for security enhancement.

Types of characters that can be set: Alphanumeric characters (0-9, a-z, A-Z, ~!@#$%^&*()_+|}{[][<>.,/?`)

Number of characters that can be set: 8 to 15 characters

Note

- Changing password requires pairing again.



My Screen

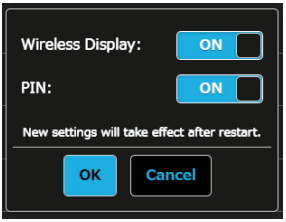
Uploading an arbitrary image allows the background of the standby screen to be changed. The image size should be less than 2 MB with 1920 x 1080 in PNG format.

Note

- Note that once the background is changed, the product needs to be initialized to restore the image to the original one. (page 41 “Reset to Factory Default”)

Wireless Display

Using the Wireless Display function enables screens and audio of a mobile terminal supporting Miracast to be mirrored on the receiver.



Wireless Display

ON: Enables the function.

OFF: Disables the function.

When [Wireless Display] is set to [ON], another wireless network [DIRECT-**** (current SSID)] will activated.

PIN

ON: Enables the function.

OFF: Disables the function.

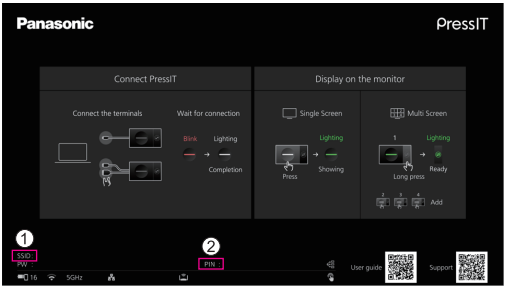
Note

- When [Wireless Display] is set to [ON], this device uses two SSIDs.
- The name of the SSID used for [Wireless Display] is “DIRECT-**** (SSID name)” with “DIRECT-” added to the beginning of the name of the SSID used for wireless connection between the receiver and transmitter.
- This function reflects the changed setting by rebooting the receiver. After completing all required settings on the Web setting screen, press the [Reboot] button on the upper right of the Web setting screen to reboot the receiver.

PIN function

When this function is enabled, depending on the mobile terminal to be used, the entry of PIN may be required for connection. If this is the case, enter the 8-digit PIN number displayed at the bottom of the screen.

Standby screen when [Wireless Display] is set to [ON]



① Select the SSID listed here from your mobile device.

② PIN display

Note

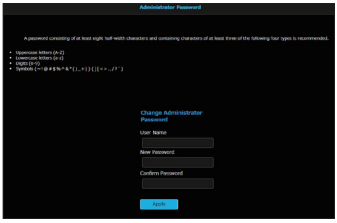
- The Wireless Display function can be used only when the mobile terminal supports Miracast.
  If connection fails, check if the operating system in use supports Miracast.
  For operation method for the mobile terminal, refer to the user's manual, etc. of your terminal.
- When [Multicast] is set to [ON], the Wireless Display function cannot be used. Accordingly, [Wireless Display] cannot be set to [ON].
- The Wireless Display function cannot be executed during Lock mode by the transmitter.
- When [Wireless Display] is set to [ON], the following menu items cannot be changed.
  - Hide SSID / Turn Off SSID
    The setting is forcibly set to [OFF].
  - Password

● **Administrator Password**

Changes the administrator password. It is recommended to change the administrator password periodically for security enhancement.

Types of characters that can be set: Alphanumeric characters (0-9, a-z, A-Z, ~!@#$%^&*()_+|}{[]<>.,/?`)

Number of characters that can be set: 8 to 16 characters

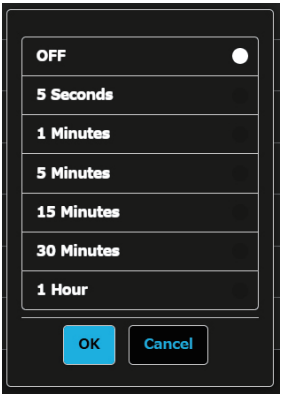


Screen Saver

The Screen Saver is a function that stops signal output after a specified time when the standby screen is displayed. You can set that time here.
When you press the main button on the connected transmitter to output images, the signal output will be unstopped.

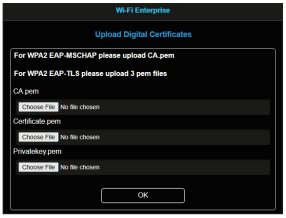
Note

- While the signal output is stopped by this function, the signal cannot be released even if you unplug and plug in the HDMI cable connected to the receiver.



Wi-Fi Enterprise

Using this function, an electronic certificate key file supporting encryption communication can be uploaded. This function is designed for persons in charge of information system department and network administrators.



Note

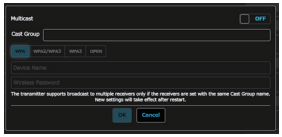
- WPA3-Enterprise is not supported.

● Multicast

Multicast is a function to mirror video and audio from one transmitter to multiple receivers.
To use the Multicast function, there are two settings methods.

① Without using a router (routerless multicast)

② Using the router
A wireless LAN router that can be fixed to the W52 channel in the 5 GHz band or supports the 6 GHz band is required.



Multicast
ON: Enables the function.
OFF: Disables the function.

RX HOST
ON: Becomes the host receiver.
OFF: Disables the function.

Cast Group
Set the Cast Group name (within 16 alphanumeric characters).
Multicast is enabled for receivers set in the same Cast Group.

Security
WPA, WPA2/WPA3, WPA3, OPEN
Select a security setting for the router or Host receiver.
Security standards that support the Multicast function are displayed.
Multicast does not support WPA / WPA2-Enterprise.

Device Name
Enter the SSID of the router or Host receiver.

Password
Enter the password for the router or Host receiver.

① Routerless Multicast setting method (example)

The setting is required for all receivers used with Multicast.
Use the following setting method (example) for all receivers.

1-1 Receiver setting

1-1-1 Connecting to the Web setting screen
Connect a PC or mobile device to the receiver, and access the Web setting screen.
For how to access the Web setting screen, refer to “When connecting for the first time immediately after purchase” (page 23).

1-1-2 Select [Wireless Display] from [Detail Settings] on the Web setting menu, set [Wireless Display] to [OFF] and press [OK].

1-1-3 HOST receiver setting
Set one receiver used with Multicast as the HOST receiver.
Select [Multicast] from [Detail Settings] on the Web setting menu, and configure the Multicast setting as shown below.

Multicast	ON
Cast Group	Set the same Cast Group name for all receivers. (e.g., G001)
Security	When the wireless mode is set to 5 GHz, select [WPA2/WPA3]. When the wireless mode is set to 6 GHz, select [WPA3].

Device Name Blank
Password Blank

After the setting is complete, set [RX HOST] to [ON].
Then select [OK].

After all items are set, press [Reboot] on the upper right of the Web setting screen to reboot the receiver.
When the PC and the receiver are connected via wired LAN, remove the LAN cable of the receiver after reboot.

1-1-4 Settings for receivers other than HOST
Select [Multicast] from [Detail Settings] on the Web setting menu, and configure the Multicast setting as shown below.

Multicast ON
RX HOST OFF
Cast Group Set the same Cast Group name for all receivers. (e.g., G001)
Security When the wireless mode is set to 5 GHz, select [WPA2/WPA3]. In the case of 6 GHz, select [WPS3].
Device Name Check the standby screen of the HOST receiver, and enter SSID (PressIT_********) of the HOST receiver.
Password Check the standby screen of the HOST receiver, and enter the wireless password of the HOST receiver.

After the setting is complete, select [OK].

After all items are set, press [Reboot] on the upper right of the Web setting screen to reboot the receiver.
When the PC and the receiver are connected via wired LAN, remove the LAN cable of the receiver after reboot.

1-2 Pairing

Pair the HOST receiver with the transmitter.
For pairing, refer to “Pairing by connecting the receiver and transmitter” (page 17).
Remote pairing is not supported.

1-3 Connection check

When the IP address in the wireless network icon field  of the HOST receiver is “192.168.167.1”, the HOST receiver setting is complete.
When the IP address in the network icon field  on the standby screen of receivers other than the HOST receiver is “192.167.167.***”, the settings of receivers other than the HOST receiver are also complete.
Press the main button of the transmitter, and confirm that images are displayed on all receivers.

② **Multicast setting method using router (example)**

The setting is required for all receivers used with Multicast.
Use the following setting method (example) for all receivers.

2-1 Connect the receiver to the router

2-1-1 Connecting the receiver and the router wirelessly
Set [Remember Wireless Access Point] to [ON] in [Network Management] on the Web setting menu, and configure the router connection setting in [Connect to Wireless].
When the receiver is connected to the router via wired LAN, this setting is not required.

2-1-2 Connecting the receiver and the router via wired LAN
Select [LAN IP Settings] in [Detail Settings] on the Web setting menu, and set an IP address on the same network as that of the router to be connected.
When using multiple receivers on the same network, set arbitrary IP addresses for respective receivers.

2-2 Receiver setting

2-2-1 Connecting to the Web setting screen
Connect a PC or mobile device to the receiver, and access the Web setting screen.
For how to access the Web setting screen, refer to “When connecting for the first time immediately after purchase” (page 23).

2-2-2 Select [Wireless Display] from [Detail Settings] on the Web setting menu, set [Wireless Display] to [OFF] and press [OK].

2-2-3 Select [Multicast] from [Detail Settings] on the Web setting menu, and configure the Multicast setting as shown below.

Multicast	ON
RX HOST	OFF
Cast Group	Set the same Cast Group name for all receivers. (e.g., G001)
Security	Select the security setting that the router has set.
Device Name	Enter the SSID of the router.
Password	Enter the wireless password of the rooter.

After the setting is complete, select [OK].

2-2-4 After all items are set, press [Reboot] on the upper right of the Web setting screen to reboot the receiver.
When the PC and the receiver are connected via wired LAN, remove the LAN cable of the receiver after reboot.

2-3 Pairing

Pair the transmitter with receivers on which Multicast is set.
For pairing, refer to “Pairing by connecting the receiver and transmitter” (page 17).
Remote pairing is not supported.

2-4 Connection check

When the IP address compliant with the network of the rooter is displayed in the network icon field  on the standby screen of receivers, the connection is complete.
Press the main button of the transmitter, and confirm that images are displayed on all receivers.

Note

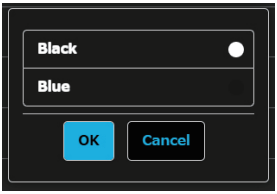
- It may take time from the start-up of the receiver until the completion of the Multicast connection.
- When using Multicast, apply the same wireless mode setting to all receivers.
- If Multicast cannot be operated even if the receiver is set according to the procedure, press and hold the reset button of the receiver to restore it to the factory default state, and configure the setting again from the beginning of the procedure.

Background Color setting

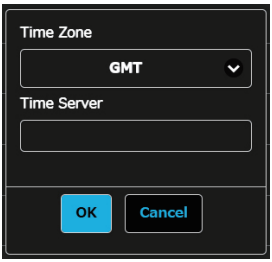
Specifies the background colors for the standby screen and no-signal image.
[Black] or [Blue] can be specified.

Note

- When the [My Screen] is specified, this setting is not reflected on the standby screen.



Date/Time setting



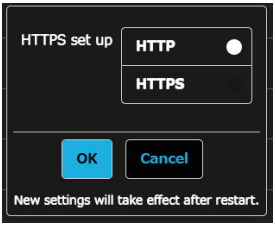
Specifies the time zone.

Time Server:
Sets the NTP saver.
When the NTP server is not specified, a server registered beforehand is accessed.

Date and time shows the following information.

1. Information obtained from the NTP server via wireless LAN or wired LAN of the receiver (priority)
2. Information from HDMI-CEC of the corresponding display or projector

HTTPS setting



Sets to the access method to Web setting screen.

http :
Enables be accessed from either http or https.
https :
If accessed via http, redirect to https.
(Disables access via http)

Note

- When this function is set to [https], the pairing function of WPS1 transmitter does not work.
- This function reflects the changed setting by rebooting the receiver.
  After completing all required settings on the Web setting screen, press the [Reboot] button on the upper right of the Web setting screen to reboot the receiver.

Reboot

Restart the product when the firmware is upgraded to the latest version or the receiver does not respond.
Tap [Reboot] and select [Yes].

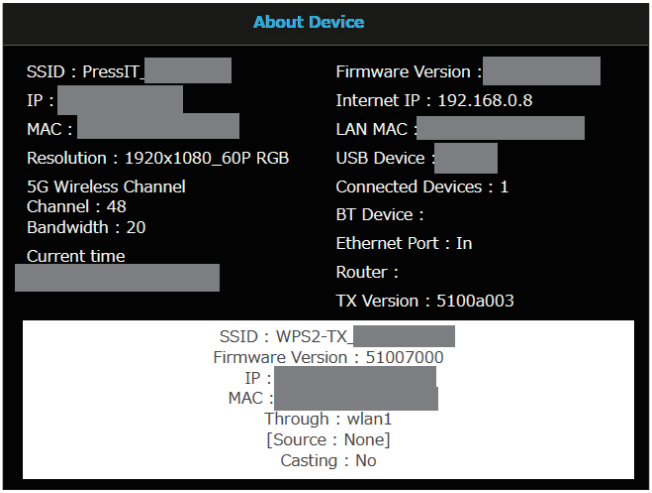
Reset to Factory Default

Initializes this product to the default state. Note that the customized language setting, resolution setting, wireless LAN setting, etc. once stored are initialized. When the transmitter is initialized, the paired state between the receiver and transmitter is canceled. Perform pairing according to the procedure in “Transmitter Extension Method (Pairing)” (page 17) after initialization. When initializing with [Reset to Factory Default], Administrator Password (username/password) is not initialized. To initialize Administrator Password, use the reset button (page 9).

Reset RX:
Initializes the receiver only.
Reset TX:
Initializes the transmitter only.
Initialization is applicable to active transmitters that have been paired with a receiver.
Reset RX + TX:
Initializes both the receiver and transmitter.

About Device

Displays [SSID], [Firmware Version], [Wireless Channel] and other basic information related to this product. When the transmitter is connected, the basic information of the transmitter is also displayed.



Software licenses

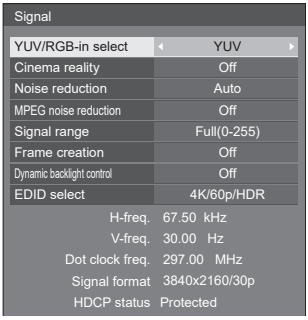
Download the file with the software license description.

[Setup] menu (display setting)

When this product is connected to the compatible display and the [Setup] menu is set, the following functions can be used.
This section explains each setting using the display SQ1 series as an example. For settings on other models, see the Panasonic information site.

■ Signal

Examples of [Signal] submenu screen
When HDMI is selected



● **[EDID select]**

This menu is displayed in HDMI 1 and HDMI 2 inputs. EDID data of each terminal is switched.

[4K/60p/SDR]: Sets EDID compatible with 4K video signals (Max. 4 096 x 2 160 dots, Max. vertical scanning frequency 60 Hz).
This EDID supports SDR (Standard Dynamic Range). HDR (High Dynamic Range) is not supported.

[4K/60p/HDR]: Sets EDID compatible with 4K video signals (Max. 4 096 x 2 160 dots, Max. vertical scanning frequency 60 Hz).
This EDID supports HDR (High Dynamic Range).

[4K/30p]: Sets EDID compatible with 4K video signals (Max. 4 096 x 2 160 dots, Max. vertical scanning frequency 30 Hz).

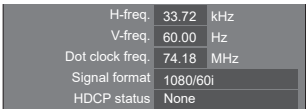
[2K]: Sets EDID compatible with 2K video signals (Max. 1 920 x 1 200 dots).

Note

- This function is explained using the Panasonic display SQ1 series as an example. Depending on the model, the setting items differ.
- When EDID is set to [4K/60p/SDR] or [4K/60p/HDR], images of 4K/30p are output.
- When the setting is changed, the image disappears for approx. 10 seconds, and then the specified image format is output.
- When [Resolution] on the Web setting screen is set to something other than [Auto], the settings on this menu are not reflected.
- When [Wireless presentation link] is set to [Off], the settings are not reflected until the receiver is restarted after this menu is changed.

● **Input signal display (When receiver board input is selected)**

Displays the frequencies of the signal currently being input, and the type of signal.



When receiver board input (SLOT) is selected, the following information is displayed.

- When the image of the transmitter is displayed, the information of image signal input to the transmitter is displayed.
- When the image of the transmitter is not displayed (standby screen is displayed), the information of signal output from the receiver board is displayed.

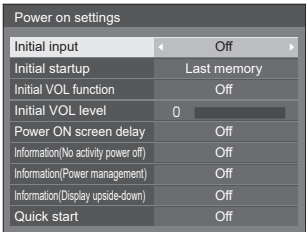
Panasonic display link function

Just connect the receiver to a Panasonic display supporting this product using HDMI cable and turn them on to perform the link operation. (It is necessary to set [Wireless presentation link] to [On].)
Set link function details in the following setting menus.

■ Power on settings

Makes various settings at power-on.

[Power on settings] - submenu screen



● **[Quick start]**

This function quickly turns the power on at power-on.

[Off]:

Turns the power on in a usual manner at power-on.

[On]:

Quickly turns the power on at power-on.

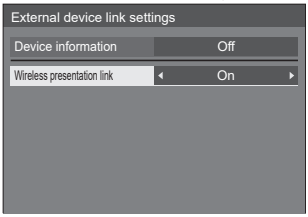
Note

- When this function is set to [On], power consumption is increased in standby mode.
- When this setting is set to [On], the power indicator in standby mode lights in orange (red/green).
- When supplying power to the receiver from the USB terminal of the display, set this to [On].

■ External device link settings

Sets external device link.

[External device link settings]- submenu screen



● [Device information]

Sets whether to display or hide the information of the device connected to the HDMI terminal.

[Off]: Connected device information is not displayed.

[On]: Connected device information is displayed as shown below.

Note

- The obtained information of either signal or HDMI-CEC is displayed.
- Up to the first 16 characters obtained are displayed.

● Wireless presentation link

Sets the link of the Display with this product.

[Off]: Does not link with this product.

[On]: Links with this product.

Note

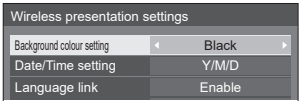
- When this product is connected to the HDMI terminal, the link function works.
- The following functions are fixed.
  These settings are held even if this function is switched from [On] to [Off]. The settings can be changed on each setting menu.
  - [Picture mode] is fixed to [Graphic].
  - [HDMI-CEC control] is fixed to [Enable]. [Display → Device] is fixed to [Power off / on]. [Device → Display] is fixed to [Power off / on].
- Even if this function is set to [Off], the HDMI-CEC function works.

■ [Wireless presentation settings]

Note

• Approx. 5 seconds may be required to reflect the menu settings.

[Wireless presentation settings] - sub menu screen



● [Background colour setting]

[Black]: The background color for the standby screen and no-signal image is set to black.

[Blue]: The background color for the standby screen and no-signal image is set to blue.

Note

• When the image is changed with the [My Screen] function on the Web setting screen, this setting is not reflected.

● [Date/Time setting]

Note

• Not valid for this model. The date and time will not be displayed on the standby screen.

● [Language link]

[Enable]: Sets the language for the standby screen, no-signal image and Web setting screen to the language set for [OSD language].

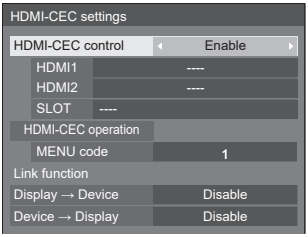
[Disable]: Sets the language for the standby screen, no-signal image and Web setting screen to the language set for [Language] on the Web setting screen.

Note

• [Language link] only supports Japanese and English on this model.

■ HDMI-CEC settings

Set for HDMI-CEC function.
For details of HDMI-CEC function, refer to “Using the HDMI-CEC function”. (see page 47)
[HDMI-CEC settings] - submenu screen



● [HDMI-CEC control]

Enables/Disables the HDMI-CEC function.
[Disable]: Disables HDMI-CEC control.
[Enable]: Enables HDMI-CEC control.

Note

- Setting this item to [Enable] enables the HDMI-CEC function for this product and display.

● [HDMI1] / [HDMI2]

[PressIT] is displayed for a terminal to which this product is connected.

● [MENU code]

No code is assigned to this system.

● [Display → Device]

Enables/Disables the Display to perform interlocking control of the HDMI-CEC compatible device.

[Disable]: Disables the Display to perform interlocking control of the HDMI-CEC compatible device. Even if the power status of the Display changes, the power status of the device will not be affected.

[Power off]: Turning the Display off (standby) turns off (standby) all the devices connected to the HDMI 1 or HDMI 2 terminal. The power-on operation is not interlocked.

[Power off / on]: The device turns off/on (standby) in conjunction with the power-off/on (standby) operation of the Display.

● [Device → Display]

Enables/Disables the HDMI-CEC compatible device to perform interlocking control of the Display.

[Disable]: Disables the device to perform interlocking control of the Display. Even if the power status of the device changes, the power status of the Display will not be affected.

[Power on]: Turning on the device turns on the Display, and the input (HDMI1 / HDMI2) is switched to that of the device.

[Power off / on]: The power status of the Display interlocks with the power-off/on operation of the device.

Using the HDMI-CEC function

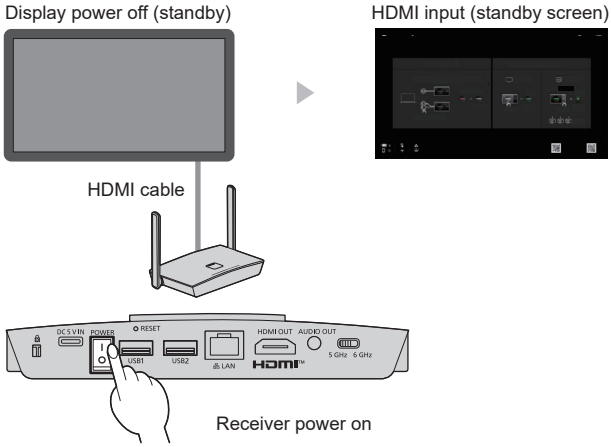
The HDMI-CEC function allows the display to be turned on/off or the input to be switched by linking the operation of this product.

■ CEC-ON link

The display is turned on (image-receiving state) when it is turned off (standby state). The image of this product is projected by switching to the input to which this product is connected.
ON link is enabled by performing the following 4 operations.

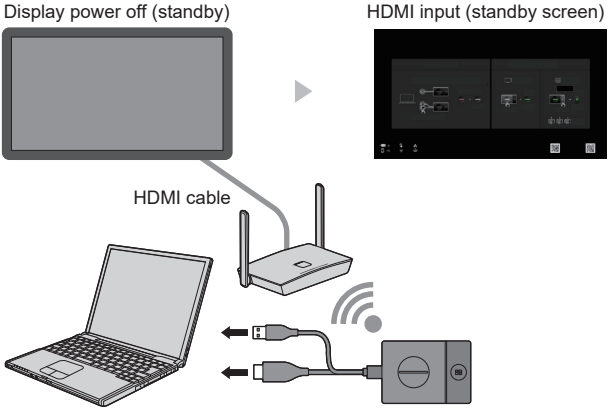
(1) When the receiver is turned on

When the receiver is switched from off to on, the display is turned on and switched to the input to which the receiver is connected.



(2) When the transmitter is turned on

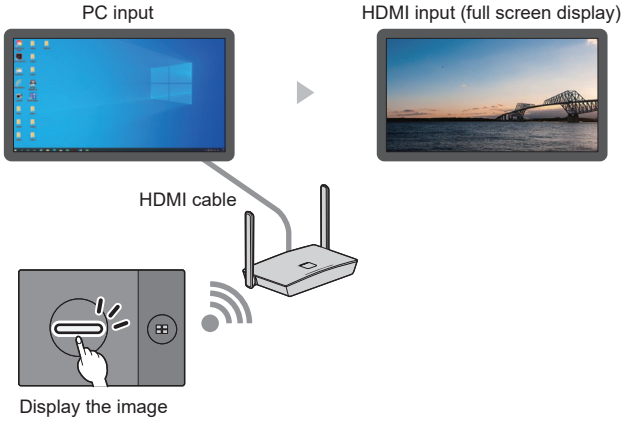
When the USB terminal of the transmitter is connected to PC, etc. and the power supply starts, the display is turned on and switched to the input to which the receiver is connected.



(3) When the image from the transmitter is displayed in standby state

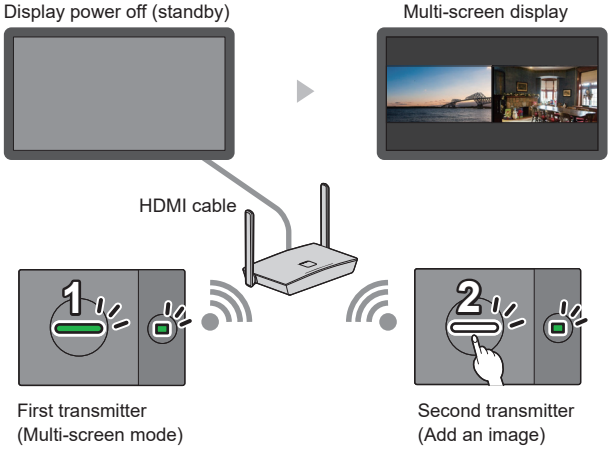
When the transmitter is in standby state, press the main button to send the image to the receiver. Then the display is turned on and the image is displayed.
The input of the display is linked to the operation of the transmitter and switched to the input to which the receiver is connected.

e.g.) PC input for display



(4) In multi-screen mode

Press the main button in multi-screen mode to add an image. Then the display is turned on and the multi-screen display appears.

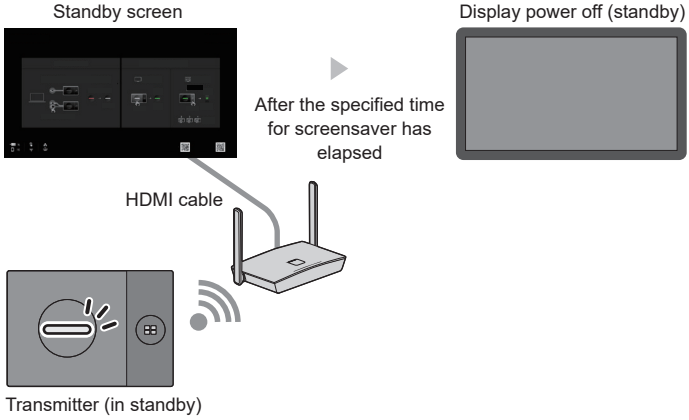


■ CEC-OFF link

Performing the following 2 operations allows the display to be turned off (standby state).

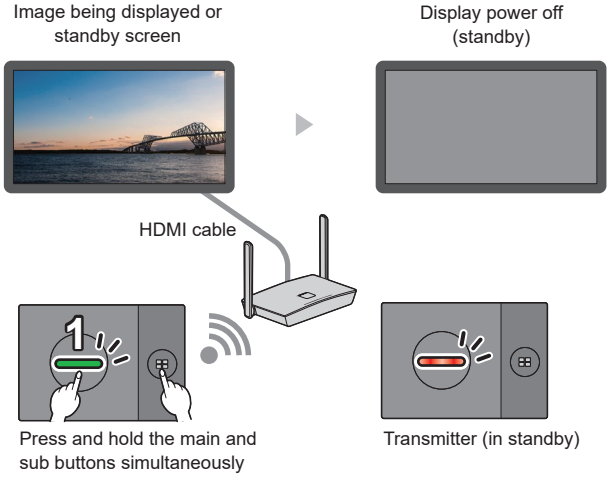
(1) When the screensaver is activated

When the screensaver of this product is activated while the transmitter is in standby state, the display is turned off.



(2) When the transmitter is standby state

Press and hold the main button and the sub button of the transmitter simultaneously while the transmitter connected. Then the display is turned off.
When the transmitter enters the standby state, the main LED blinks in red.



Note

- To restore the transmitter from standby state to the active state, disconnect and connect the USB terminal of the transmitter.

Firmware update

Update the receiver firmware

A USB memory is used to update the receiver firmware.

■ Preparations

- USB memory
- Firmware file.
  The latest firmware files are available at the following website:
  https://docs.connect.panasonic.com/prodisplays/

■ Firmware update procedure

1 Download the latest firmware file from the product website.

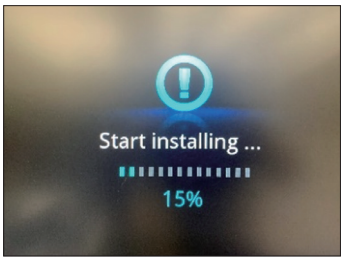
2 Save the firmware file to the top directory of the USB memory.

3 Turn on the receiver.

4 Connect the USB memory to the receiver.

- [Start download FW from USB] is displayed on the standby screen of the receiver and the LED of the receiver's FUNCTION button blinks in red and white.

- The receiver automatically restarts and [Start Installing...] is displayed.



- When the progress rate on the receiver screen reaches 100 %, the receiver will restart.
- After a while (about 10 seconds) after restarting, the receiver will restart again.

5 Check the firmware version.

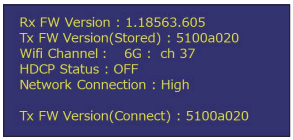
If the version has changed, the update has been successful.

■ To check the firmware version of the receiver

1 Turn on the receiver.

2 On the standby screen, press the FUNCTION button on the receiver.

The device information is displayed.



3 Check [Rx Fw Version].

Note

- The firmware version of the receiver can also be confirmed from [About Device] on the web settings screen.

Note

- If the firmware version of the receiver is already newer than or the same as the firmware file version, the update will not start.
- Do not remove the USB memory from the receiver while [Start download FW from USB] is displayed (the LED of the FUNCTION button is blinking red and white).
- If the firmware update of the receiver fails midway, or if the update never finishes (if it takes more than 15 minutes as a guideline), turn the receiver power off/on.
- While the firmware is being updated, do not send image from another transmitter or connect another device to the USB port of the receiver.

Update the transmitter firmware

The firmware of the transmitter is updated via the receiver.
Be sure to update the receiver firmware of the receiver to the latest version before updating the firmware of the transmitter.

■ Firmware update procedure

Update using either of the following methods:

● **Update by connecting directly to the receiver**

1 Start the receiver and put it on standby screen

2 While holding down the Sub button on the transmitter for which you want to update the firmware, connect the transmitter to the USB port on the receiver.

“Pairing…” will be displayed on the standby screen of the receiver but continue to press the Sub button on the transmitter.

3 Continue to press the Sub button.

The main LED of the transmitter blinks in purple and [Transmitter upgrading...] is displayed on the receiver screen.

4 Stop pressing the Sub button.

When the progress rate reaches 100 % and [Transmitter update complete] is displayed, the update is successful.

● **Update remotely**

1 Pair the receiver that has been updated to the latest version with the transmitter whose firmware you want to update.

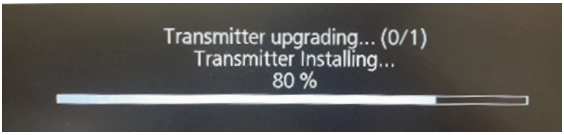
2 While holding down the Sub button on the transmitter for which you want to update the firmware, connect the transmitter to a computer.

3 Continue to press the Sub button.

The main LED of the transmitter blinks in purple and [Transmitter upgrading...] is displayed on the receiver screen.

4 Stop pressing the Sub button

When the progress rate reaches 100 % and [Transmitter update complete] is displayed, the update is successful.



To check the firmware version of the transmitter

1 Pair the transmitter whose version you want to check with the receiver.

2 Connect the transmitter to the computer and leave it activated.

3 Access the web settings screen of the receiver.

You can check the firmware version of the paired transmitter from [About Device] on the web settings screen.

Note

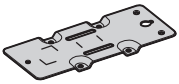
- Updates to the transmitter firmware are always performed regardless of the transmitter firmware version.
- While updating the transmitter firmware, do not disconnect the transmitter from the connected receiver or computer.
- If the firmware update of the transmitter fails midway, or if the update never finishes (if it takes more than 15 minutes as a guideline), disconnect and reconnect the transmitter from the connected receiver or computer, then try updating the firmware again.
- While the firmware is being updated, do not send image from another transmitter or connect another device to the USB port of the receiver.

Installing the Receiver

Components for receiver mounting bracket

Check the following parts are included.

Base bracket (A) 1
(DPVF3503ZA/X1)



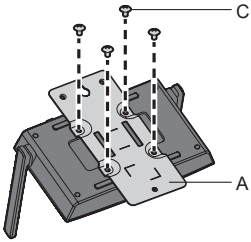
Sheet (B).....2
(DPVF3508ZA/X1)
(24×20 mm)

Screw (C).....4
(DPVF3510ZA/X1)
(M4×5)

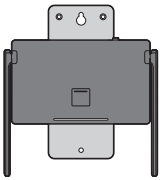
Mounting the base bracket

1 **Place the base bracket (A) aligning it with the 4 screw holes on the bottom surface of the receiver.**

2 **Fix the base bracket (A) with 4 screws (C).**



The base bracket can be mounted as shown below.

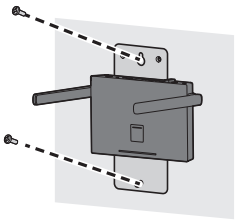


Installing on the ceiling or wall

1 **Mount the base bracket (A-1) to the receiver.**

2 **Fix the receiver to the ceiling or wall with 2 screws.**

Use screws (commercially available) of the appropriate type and length according to the ceiling or wall to be installed. (Recommended size: M4)



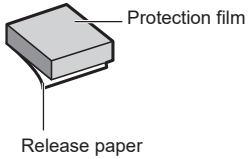
Example for installing on the projector

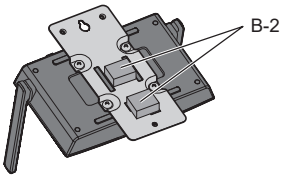
Use a commercially sold fixing band with a width of 25 mm or less.

1 Mount the base bracket (A) to the receiver.

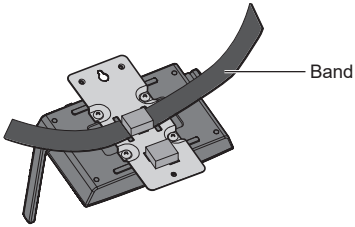
2 Attach 2 sheets (B) to the bracket along the marking-off lines

Remove the double-sided taped release paper from those sheets and attach them to the brackets. Then remove the protection films.

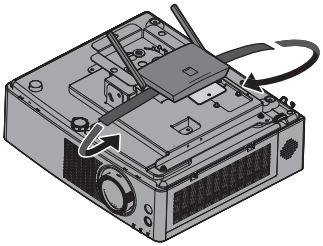




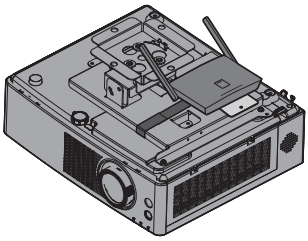
3 Pass the band through the slit of the base bracket (A).



4 Install the receiver on the ceiling-hanging base bracket of the projector.



5 Wrap the band through the ceiling-hanging base bracket and fix the receiver.



Note

- The illustrations show the PT-VMZ60 model.
- Depending on the model of projector, the above method may not be used for installation.

Image Signals Supported by This Product

■ Image output resolution of the receiver

WPS Receiver (TY-WPR2)	
HDMI output signals	
3840 x 2160@30Hz RGB	3840 x 2160@24Hz
1920 x 1080@60Hz RGB	1920 x 1080@60Hz
4096 x 2160@24Hz	1920 x 1080@50Hz
3840 x 2160@60Hz	1920 x 1080@24Hz
3840 x 2160@30Hz	1280 x 720@60Hz
3840 x 2160@25Hz	1280 x 720@50Hz

■ Image input resolution of the transmitter

WPS Transmitter (TY-WPB2)	WPS USB-C Transmitter (TY-WPBC2)
HDMI input-supported signals	USB-C input-supported signals
3840 x 2160@30Hz	3840 x 2160@30Hz
1920 x 1080@60Hz	1920 x 1080@60Hz
1920 x 1080@50Hz	1920 x 1080@50Hz
1920 x 1080@30Hz	1920 x 1080@30Hz
1280 x 720@60Hz	1280 x 720@60Hz
1280 x 720@50Hz	1280 x 720@50Hz

Note

• The transmitter does not support interlace signals such as 1920×1080i.

Troubleshooting

Symptoms	Checks	Page
Touch information is not sent to the PC although the USB cable of the touch module is connected to the receiver.	● Some devices do not support the touch module.	9
Forgot the user name and/or password for the Web setting screen.	● After activating the receiver, press and hold the reset button for 5 seconds or more. The user name and password are is initialized.	9
The main LED and sub LED of the transmitter do not light up properly.	● Power supplied to the transmitter may be insufficient. Change the power source for the transmitter.	13
HDMI-CEC function does not work.	● When power is supplied from the USB terminal of the display or projector to the receiver, the power may become insufficient when the power is turned off. Change the power source for the receiver.	12
When the transmitter is connected to the PC, images on the PC are distorted.	● This phenomenon occurs when the PC judges the supported signal information of the transmitter and changes the resolution of the images to the most appropriate one. This is not a malfunction.	—
When the resolution of PC images is changed while sending images of PC, etc., the images are distorted or non-signal images are displayed.	● This phenomenon occurs when the signal from PC is changed. This is not a malfunction.	—
When WPS USB TYPE-C transmitter (TY-WPBC2) is connected, images are not displayed.	● When the USB TYPE-C terminal of the image output device is equipped with the following two functions, it is usable. Confirm the specifications of the device before using. • DisplayPort Alt Mode (image output function) • Function to supply power to the connected device (5 V/0.9A)	13
Routerless Multicast setting is grayed out and cannot be set.	● [Wireless Display] is set to [ON].	35
The standby screen is not displayed.	● Check the inputs and cables of the HDMI-connected display and projector.	12
White or green blinking state continues.	● Signals that can be input are not input to the transmitter.	55
Wireless Display setting is grayed out and cannot be set.	● Routerless Multicast is set to ON.	35
[Pairing NG] error occurs during pairing with TY-WPB1/WPBC1.	● The receiver may have been set to 6 GHz.	11
HDCP-protected images are not displayed.	● Press the FUNCTION button, and check if [HDCP status] is set to ON. When it is set to OFF, connect to the browser and change the setting. Note that the HDMI input of the transmitter is HDCP1.4.	31
Images on multiple receivers are unstable such as occurrence of stuttering.	● Wireless communication may be causing radio wave interference. Change the channels of each receiver to individual values from the Wireless channel setting on the Web setting screen.	32
When using in combination with TY-WPB1/WPBC1, images are not displayed or extremely delayed.	● Switch the mode switch of the transmitter to 1.	10
Mode switching is not possible by switching the 5G/6G mode switch of the receiver.	● Switch the mode while the receiver is turned ON.	15

Support

If you have any other questions about usage, access the following URL and confirm the frequently asked questions (FAQ) page.
https://docs.connect.panasonic.com/prodisplays/

Specifications

■ Receiver

Model No.	TY-WPR2
Product name	WPS Receiver
Video output	HDMI × 1 (HDCP2.2)
Output resolution	1920 x 1080/60p, 3840 x 2160/60p (max.)
Number of simultaneous connections	32
Wireless communication standard	IEEE802.11b/g/a/n/ac/ax Bluetooth (GFSK, π/4-DQPSK, 8DPSK)
Data rate wireless	2.4 Gbps (Maximum theoretical value)
Frequency band	2.4 GHz-bands 2,400 MHz to 2,483.5 MHz 1/2/3/4/5/6/7/8/9/10/11/12/13 channel 5 GHz-band 5,150 MHz to 5,250 MHz 36/40/44/48 channels 6 GHz-bands 5,945 MHz to 6,425 MHz 1/5/9/13/17/21/25/29/33/37/41/45/49/53/57/61/65/69/73/77/81/85/89/93 channels
Security	WPA/WPA2/WPA3 (WPA3-Enterprise is not supported)
Reachable distance	5 GHz : Up to 30 m, 6 GHz : Up to 20 m (Locations with good visibility and radio wave conditions)
FUNCTION LED	* The following describes typical colors and conditions.
White blinking	Pairing in progress
White illumination	Pairing complete
Red and white blinking	Updating the receiver firmware
LAN terminal	RJ45 × 1 10BASE-T/100BASE-TX supported
USB terminal	USB receptacle Type-A × 2
Audio out terminal	Stereo mini jack (φ 3.5 mm) × 1 0.25 V [rms]
Power supply	DC 5 V/2 A
Dimensions (W × H × D)	156 mm × 26 mm × 97.5 mm / 6.14” × 1.02” × 3.84” (excluding antennas)
Mass	Approx. 270 g / 0.6 lbs
Operating condition	Temperature: 0 °C to 35 °C (32 °F to 95 °F) Humidity: 20 % to 80 % (no condensation)
Storage condition	Temperature: -20 °C to 60 °C (-4 °F to 140 °F) Humidity: 20 % to 80 % (no condensation)

■ Transmitter

Model No.	TY-WPB2	TY-WPBC2
Product name	WPS Transmitter	WPS USB-C Transmitter
Video input	HDMI × 1 (HDCP1.4)	USB Type-C × 1 (HDCP1.4, DisplayPort Alt Mode)
Input resolution	1920 x 1080/60p, 3840 x 2160/30p (max.) *Interlace signals are not supported.	
Wireless communication standard	IEEE802.11ac/ax Bluetooth (GFSK, π /4-DQPSK, 8DPSK)	
Data rate wireless	1.2 Gbps (max.)	
Frequency band	5 GHz-bands 5,150 MHz to 5,250 MHz 36/40/44/48 channels 6 GHz-bands 5,945 MHz to 6,425 MHz 1/5/9/13/17/21/25/29/33/37/41/45/49/53/57/61/65/69/73/77/81/85/89/93 channels	
Security	WPA2/WPA3 (WPA3-Enterprise is not supported)	
Reachable distance	5 GHz : Up to 30 m, 6 GHz : Up to 20 m (Locations with good visibility and radio wave conditions)	
Main LED	* The following describes typical colors and conditions.	
White blinking	Standby (no signal input), pairing in progress	
White illumination	Standby or pairing complete	
Red blinking	Connecting	
Red illumination	Operation disabled	
Green blinking	Image being displayed (no signal input)	
Green illumination	Image being displayed	
Blue blinking	Fixed mode (no signal input)	
Blue illumination	Fixed mode	
Yellow blinking	Pairing via wireless LAN	
Violet blinking	Updating the transmitter firmware	
Sub LED		
Green illumination	Multi-screen mode	
Power supply	DC 5 V/0.9 A	
Dimensions (W × H × D)	61.3 mm × 19.8 mm × 87.3 mm / 2.41” × 0.78” × 3.44” (excluding cables) 61.3 mm × 19.8 mm × 297.3 mm / 2.41” × 0.78” × 11.71” (including cables)	61.3 mm × 19.8 mm × 87.3 mm / 2.41” ×0.78” × 3.44” (excluding cables) 61.3 mm × 19.8 mm × 192.3 mm / 2.41” × 0.78” × 7.57” (including cables)
Mass	Approx. 130 g / 0.3 lbs	Approx. 100 g / 0.3 lbs
Operating condition	Temperature: 0 °C to 35 °C (32 °F to 95 °F) Humidity: 20 % to 80 % (no condensation)	
Storage condition	Temperature: -20 °C to 60 °C (-4 °F to 140 °F) Humidity: 20 % to 80 % (no condensation)	

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By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.
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Customer's Record

The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number **Serial Number**

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English

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