InstaShow™

User Manual

VS25

V 1.00

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Table of Contents

Copyright 2
Disclaimer 2
Statement regarding hyperlinks and third-party websites 2
Introduction 5
- Package contents 6
- Product specifications 7
- Overview 10
  - Host Button 10
  - Button 10
  - Receiver 11
  - Multimedia Hub 12
  - LED indicators 13

Installation 15
- Environment check 15
- Assembling the Receiver 16
- Setting up the Receiver 17
  - Placing the Receiver on a table 17
  - Attaching the Receiver to a pole mount 19
  - Attaching the Receiver to the ceiling 20
- Positioning the Receiver antennas 21
  - For ceiling installation 21
  - For pole mount installation 21
  - For table placement 22
- Assembling the Multimedia Hub 23
- Assembling the adapters 24
- Connecting the Receiver 25
- Network connections 27
  - LAN connection 27
  - Wi-Fi connection 28
- Connecting the Multimedia Hub 29
- Switching to the Button/Host Button HDMI cable 30
- Setting up and powering a Button/Host Button 31
- Storing Buttons and USB cable in the cradle 32

Wireless presentations (WPS) 33
- Presenting Wirelessly 33
- Split screen presentations 34
  - Starting a split screen presentation 34
  - Switching from a split screen to a full screen presentation 36
- Playing videos with InstaShow™ 37

Presenting with mobile devices (BYOD) 38
- Presenting with an Apple device 38
- Presenting with a Windows device 38
- Presenting with an Android mobile device 39
- Presenting with a PC via Chrome browser 39

Wireless conferencing (BYOM) 40
- Setting up a wireless video conference 40

Web management 43
- Accessing the web management interface 43
  - Logging into the web management interface via LAN 43
  - Logging into the web management interface via a wireless network 45

Getting started....47
Top command buttons....47
Function bar....47
Main column....47
Information....48
WAN....52
Wireless Network....53
Pairing....55
Display....58
Advance Setting....59
System Time....61
Tools....62
Legal Announcement....71
Additional instructions....72
Pairing a Receiver and a separately purchased Button....72
Pairing when the Receiver is placed on a table....72
Pairing via direct connection to the Receiver....74
Resetting a Receiver....76
Resetting a Button/Host Button....77
Enabling network standby mode....78
Troubleshooting....79
Appendix A: Pairing a Host Button....82
Pairing a Host Button and a Receiver....82
Pairing a Host Button and a Multimedia Hub....82
Appendix B: Resetting a Multimedia Hub....83
Appendix C: Upgrading a Multimedia Hub's firmware....84
Upgrading the Multimedia Hub's firmware via USB flash drive....84
Appendix D: Security....85

Introduction

InstaShow™ is a wireless device for corporate meeting rooms. Users expect devices to respond instantly, apps to launch and be controlled at their fingertips, and information to be available on demand. InstaShow™ bypasses the complicated steps of IP addresses, driver installation, app execution, setting selection, etc., to quickly deliver professional, stable visual quality for teams to collaborate freely and confidently. InstaShow™ is a unique all-hardware solution without any software issues for universal compatibility and display flexibility.

A standard product set consists of an InstaShow™ VS25 Receiver (or “Receiver” in this document), one InstaShow™ VS25 Button (or “Button(s)” in this document), one InstaShow™ VS25 Host Button, and one InstaShow™ VS25 Multimedia Hub.

Depending on the location where you buy the product, the software of the base unit can be different. You can buy additional InstaShow™ VS25 Button kits if needed.

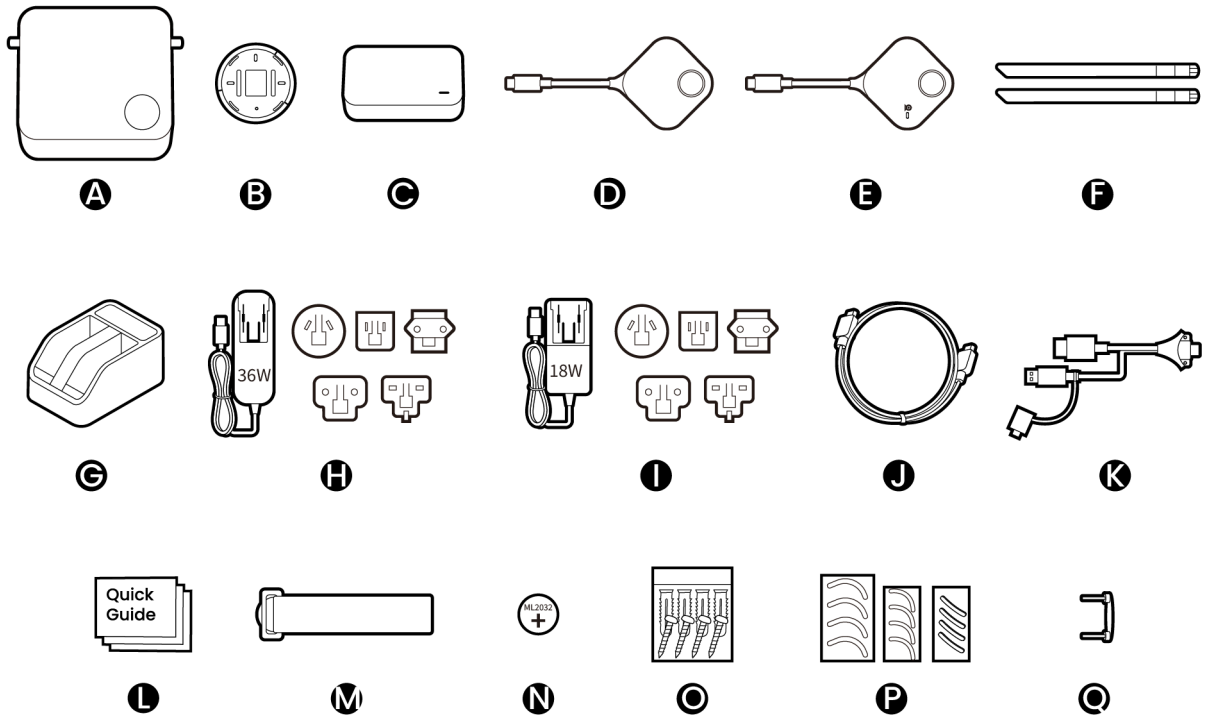
- "InstaShow™" will hereinafter be referred to as "the product" in this document.
- "InstaShow™ Receiver" will hereinafter be referred to as "Receiver" in this document.
- "InstaShow™ Button/Buttons" will hereinafter be referred to as "Button"/"Buttons" in this document.
- "InstaShow™ Host Button" will hereinafter be referred to as "Host Button" in this document.
- "InstaShow™ Multimedia Hub" will hereinafter be referred to as "Multimedia Hub" in this document.

Your product complies with the local wireless regulations and the warranties are valid in the country/region where the product is purchased. Using the product outside the purchased country/region does not guarantee the wireless functionalities. And modification of any part of the product will void the warranties.

InstaShow™ is considered networked equipment with high network availability (HiNA equipment with HiNA functionality) as it provides wireless network access for wireless InstaShow™ Buttons. For detailed operations of standby mode please refer to Enabling network standby mode on page 78 for more information.

For certain sections in this document, the instructions described may be identical for both Buttons and Host Buttons. The beginning of these sections will feature a note indicating such while only including images featuring a normal Button.

Package contents



No.	Items	No.	Items
A.	InstaShow™ Receiver	J.	Cable: HDMI A(M) to A(M)
B.	Lid	K.	Button HDMI cable
C.	InstaShow™ Multimedia Hub	L.	User documents
D.	InstaShow™ Button	M.	Velcro strap
E.	InstaShow™ Host Button	N.	Coin-cell Battery
F.	Antenna x 2	O.	Screws and screw anchors
G.	Cradle	P.	Rubber feet
H.	Adapter & plugs for Receiver	Q.	Spare U-magnet bolt for Button/Host Button
I.	Adapter & plugs for Multimedia Hub		

- The plugs provided with the adapter will vary by region.
- Available accessories and the pictures shown here may differ from the actual contents and the product supplied for your region.
- Use original accessories to ensure compatibility.
- Always keep the product and accessories out of reach of children.

Product specifications

General Features	
Model name	VS25
Color	Black
Interface	1 x HDMI Out + 1 x USB-C (DP Alt-mode, PD-in, Touch back) + 1 x RJ45 (Ethernet) + 1 x USB 2.0 (Type-A)
Button input resolution	Up to 4K 30 FPS
Receiver HDMI-output resolution	HDMI 2.X (Complies with HDCP 2.3 & HDCP 1.4): 3840x2160P60, 3840x2160P30, 3840x2160P24, 1920x1080P60, 1920x1080P50, 1920x1080P24, 720x480P60, 720x576P50
Receiver USB-C-output resolution	DP 1.2 (Complies with HDCP 1.3): 1920x1080P60, 1920x1080P50, 1920x1080P24, 720x480P60, 720x576P50
Mode	Video/Present mode and Split-screen mode
Simultaneous connections	64 pcs
Wi-Fi standard	IEEE 802.11ax, 2.4GHz / 5GHz, 2T2R
Maximum data rate	Up to 3,000 Mbps
Frequency band	2.4GHz / 5GHz
Wi-Fi authentication	WPA2/WPA3 Personal Mixed, WPA2
WAN/LAN	1Gbps
Support platform	Windows, Linux, MAC, Chrome
Temperature range	Operating: 0°C to +40°C (+32°F to +104°F)
	Storage: -10°C to +60°C (+14°F to +140°F)
Humidity	Storage: 5% to 90% relative humidity, non-condensing
	Operation: 10% to 80% relative humidity, non-condensing
Environmental	
Reach distance	Up to 40m**
Power consumption	15W / 30W (Typical/Max)
Standby power consumption	6.9W
Temperature range	Operating: 0°C to +40°C (+32°F to +104°F) Storage: -10°C to +60°C (+14°F to +140°F)
Humidity	Operation: 10% to 80% relative humidity, non-condensing Storage: 5% to 90% relative humidity, non-condensing

InstaShow™ Button			
Cable	USB Type C	Power supply	DC 5V±10%, 0.9A
Reset button	x1	LED	Red/Green/Blue*
Present key	x1	Split screen key	x1 (Video/Present, Split-screen, and Pairing Key)
Weight	110g		
Power consumption	4.2W / 4.5W (Typical/Max)		
Standby power consumption	3W		
Wireless transmission protocol	IEEE 802.11 ax, 5GHz, 2T2R		
Data rate wireless	Up to 1,200 Mbps (at 5GHz)		
Frequency Band	5GHz		
InstaShow™ Host Button			
Cable	USB Type C	Power supply	DC 5V±10%, 0.9A
Reset button	x1	LED	Red/Green/Blue*
Present key	x1	Multimedia LED	Red/Green/Blue*
		Split screen key	x1 (Video/Present, Split-screen, and Pairing Key)
Weight	110g		
Power consumption	4.2W / 4.5W (Typical/Max)		
Standby power consumption	3W		
Wireless transmission protocol	IEEE 802.11 ax, 5GHz, 2T2R		
Data rate wireless	Up to 1,200 Mbps (at 5GHz)		
Frequency Band	5GHz		
InstaShow™ Multimedia Hub			
Reset button	x1	USB-C	Device data: x1
DC Power Jack	x1	USB-A	Device data: x1
Pairing Button	x1	LED	Red/Green/Blue*
Power Supply	12V/1.5A	Dimension (WxDxH)	98 x 78 x 25.1 mm (w/o feet)
Power Consumption	3.9W / 15W (Typical/Max)	Weight	90g
Standby power consumption	2W		
InstaShow™ Receiver			
Standby button	x1	RJ45	x1
Pairing Button	x1	Kensington lock	x1
DC Power Jack	x1	USB-C	PD-in, DP Alt-mode, and Touch back: x1

Video	HDMI output: x1	USB-A	Touch back and Pairing: x1
LED	Red/Green/Blue*	Noise Level	Normal: 25dBA
Power supply	12V/3A	Dimension (WxDxH)	123 x 123 x 49.9 mm (w/o feet)
Power consumption	15W / 30W (Typical/Max)	Weight	300g
Standby power consumption	6.9W		
Cradle			
Dimensioin (WxDxH)	84.5 x 128 x 62 mm (w/o feet)	Weight	555g
Package Contents			
InstaShow Receiver	x1	Velcro Strap	x1
InstaShow Button	x1	Rubber Feet	x3
InstaShow Host Button	x1	Battery	x1
InstaShow Multimedia Hub	x1	Quick Start Guide	x1
Spare U-Magnet Bolt	x1	Safety Statement	x1
Cradle	x1	Screws and Screw Anchors	x1
Lid	x1	Power Adapter	x2
Antenna	x2 (Black)	HDMI Cable	x1
Spare Button HDMI Cable	x1		

* See LED indicators on page 13 for more information on LED behavior.
** Wireless connection speed and available maximum range depends on wireless environment.

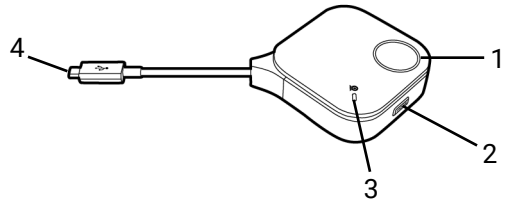
* ⎓: Direct Current /DC

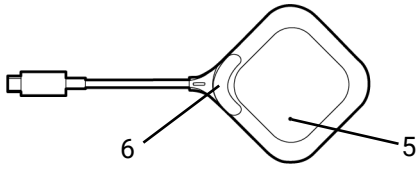
USB-C input (Receiver)
- 9V ⎓ 4A
- 12V ⎓ 3A
- 15V ⎓ 2.4A
- 20V ⎓ 1.8A

USB-A / USB-C Output (Multimedia Hub)
- USB-A port = 5V ⎓ 1A
- USB-C port = 5V ⎓ 1A
- USB-A port + USB-C port = total 5V ⎓ 1.7A

Overview

Host Button





Bottom of the Host Button

1. **Present key with LED indicator**

   Press to start or stop presenting.

2. **Split screen key**

   Press to switch to Video/Present mode, switch to split-screen mode, or pair with an InstaShow Receiver.

3. **Multimedia LED indicator**

   Indicates the connection status between the Host Button and the Multimedia Hub. Refer to Host Button LED indicator on page 13.

4. **USB-C connector**

   Connect to a computer or laptop.

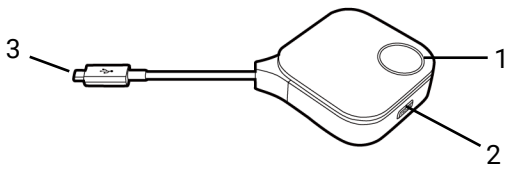
5. **Reset**

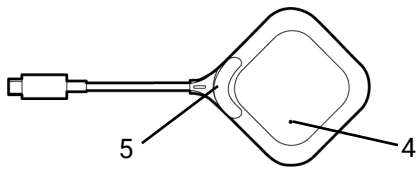
   Poke the reset hole to reset the device if the device stops responding. Refer to Resetting a Button/Host Button on page 77 for more information.

6. **U-magnet bolt**

   Secures the USB-C or HDMI cable to the Host Button. Refer to Switching to the Button/Host Button HDMI cable on page 30.

Button





Bottom of the Button

1. **Present key with LED indicator**

   Press to start or stop presenting.

2. **Split screen key**

   Press to switch to Video/Present mode, switch to split-screen mode, or pair with an InstaShow Receiver.

3. **USB-C connector**

   Connect to a computer or laptop.

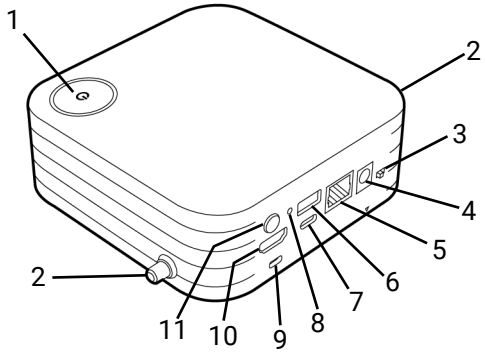
4. **Reset**

   Poke the reset hole to reset the device if the device stops responding. Refer to Resetting a Button/Host Button on page 77 for more information.

5. **U-magnet bolt**

   Secures the USB-C or HDMI cable to the Host Button. Refer to Switching to the Button/Host Button HDMI cable on page 30.

Receiver



1. **Standby button with LED indicator**

   Press to put the Receiver in Standby mode or wake up the Receiver from Standby mode.

2. **Fixture parts for the Antennas**

   Refer to Assembling the Receiver on page 16 for more information.

3. **Power switch**

   Slide to power on or off the Receiver.

4. **Power port**

   Connect to the supplied adapter to power the Receiver.

5. **WAN/LAN port**

   Connect the Receiver to a router for Internet access or to access the Web Management interface.

6. **TOUCH SCREEN port**

   Connect a touchscreen display to control the screen of the presenter's device via touch gestures.

7. **TOUCH SCREEN / DP / Power USB-C port**

   - Connect a touchscreen display to control the screen of the presenter's device via touch gestures.
   - Connect a display/projector with DisplayPort capabilities to output the Receiver's video signal.
   - Connect to a display/projector with Power Delivery (PD) capabilities (with a minimum output of 35W) to power the Receiver.

8. **RESET**

   Poke the **RESET** hole to reset the device if the device stops responding. Refer to Resetting a Receiver on page 76 for more information.

9. **Kensington anti-theft lock slot**

   Allows a security cable lock to secure the Receiver in place.

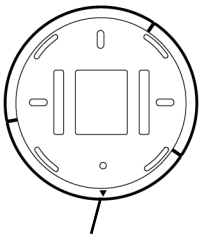
10. **HDMI port**

    Connect to a display using an HDMI A(M) to A(M) cable.

11. **PAIRING key**

    Press to pair with a Button.

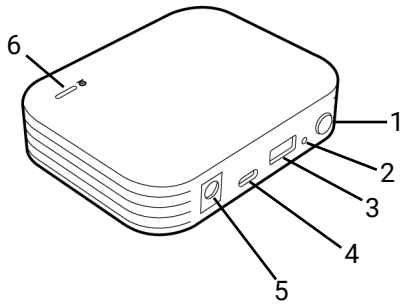
12 Lid of the Receiver



12. Lid

Refer to Placing the Receiver on a table on page 17 for more information.

Multimedia Hub



1. PAIRING key

Press to pair with a Host Button.

2. RESET

Poke the **RESET** hole to reset the device if the device stops responding. Refer to Appendix B: Resetting a Multimedia Hub on page 83 for more information.

3. USB A port

Connect to an external video conferencing device (e.g., webcam, microphone/speaker, and/or all-in-one).

4. USB C port

Connect to an external video conferencing device (e.g., webcam, microphone/speaker, and/or all-in-one).

5. Power port

Connect to the supplied adapter to power the Multimedia Hub.

6. Multimedia LED indicator

Indicates the connection status between the Host Button and the Multimedia Hub. Refer to Multimedia Hub LED indicator on page 14.

LED indicators

Please refer to the tables below for detailed indicator and status descriptions for the various devices:

Host Button LED indicator

Present Key LED indicator	Status Description
Static blue	The device is presenting.
Flashing blue	The device is pairing.
Flashing green	• The device is starting up and connecting to the Receiver. • The device is downloading/installing the firmware.
Static green	The device is in standby mode and working normally.
Flashing red	The device is unable to connect to a Receiver.
Off	The device is powered off.
Quick flashing green	The device is upgrading the firmware.
Static white	The device is powering up.

Multimedia LED indicator	Status Description
Static blue	The device is receiving video/audio from the Multimedia Hub.
Flashing blue	The device is pairing.
Flashing green	The device is starting up and connecting to the Multimedia Hub.
Static green	The device is connected to the Multimedia Hub.
Off	The device has been powered on for more than 30 seconds but is unable to pair with the Multimedia Hub.

Button LED indicator

LED indicator on the Button	Status Description
Static blue	The device is presenting.
Flashing blue	The device is pairing.
Flashing green	• The device is starting up and connecting to the Receiver. • The device is downloading the firmware.
Static green	The device is in standby mode and working normally.
Flashing red	The device is unable to connect to a Receiver.
Off	The device is powered off.
Quick flashing green	The device is upgrading the firmware.
Static white	The device is powering up.

Receiver LED indicator

LED indicator on the Receiver	Status Description
Static blue	The connected device is presenting.
Flashing blue	The device is pairing.
Flashing green	The device is starting up.
Static green	The device is ready for presenting.
Off	The device is powered off.
Quick flashing green	The device is upgrading the firmware.
Static white	• The device is powering up. • The device is in network standby mode.

Multimedia Hub LED indicator

LED indicator on the Multimedia Hub	Status Description
Static blue	The device is successfully transmitting video/audio from the video-conferencing device to the Host Button.
Flashing blue	The device is entering pairing mode.
Flashing green	The device is starting up.
Static green	The device is waiting to connect to the Host Button.
Off	The device is not powered.
Quick flashing green	The device is upgrading the firmware.
Static white	The device is powering up.

Installation

This section will guide you on how to prepare the unit before its initial use.

Environment check

Before installing your InstaShow™ kit, check the environmental conditions.

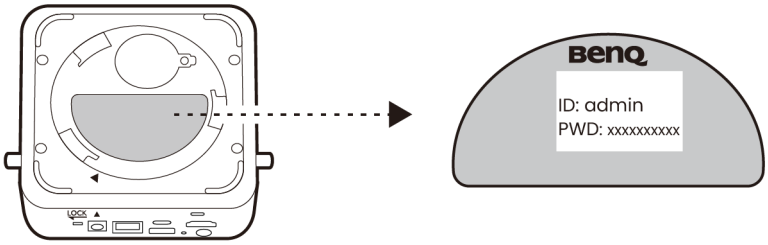
1. Do not install the device near heat sources like radiators or direct sunlight, or in a site with excessive dust or humidity.
2. Ambient temperature conditions are listed as below. Maximum ambient temperature should be +40°C or 104°F. Minimum ambient temperature should be +0°C or 32°F. Storage temperature should be -10°C to +60°C (14°F to 140°F).
3. Humidity conditions are listed as below. For storage, the relative humidity should be 5% to 90% (non-condensing). For operation, the relative humidity should be 10% to 80% (non-condensing).

As the product works with different displays, the steps required to complete the installation may vary according to the actual environment and your display specifications. Follow the procedures below and refer to the specified sections for details.

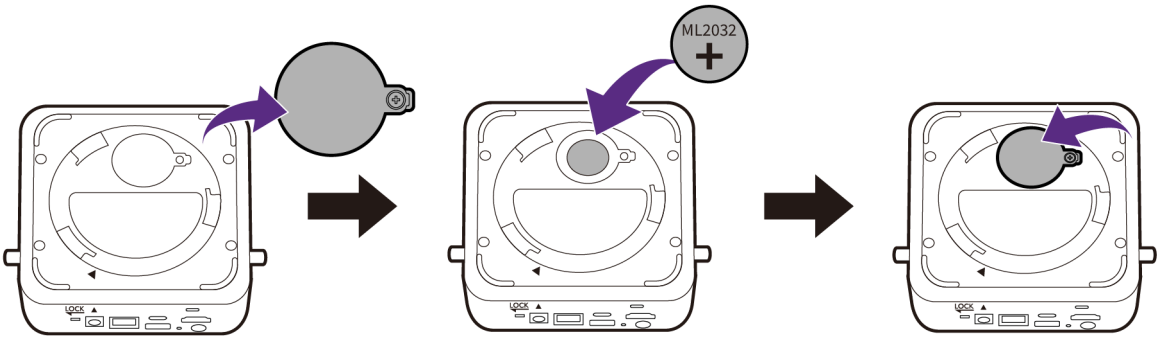
1. Assemble the Receiver with the antennas. See Assembling the Receiver on page 16 for details.
2. Install the Receiver in its designated location. Four installation methods are provided.
   - Placing the Receiver on a table
   - Installing the Receiver on the wall or trolley
   - Attaching the Receiver to a pole mount
   - Attaching the Receiver to the ceiling
3. Assemble the adapters. See Assembling the adapters on page 24 for details.
4. Connect the Receiver to the display and power properly. See Assembling the adapters on page 24 for details.
5. [For videoconferencing only]: Assemble and connect the Multimedia Hub to any external video conferencing devices (e.g., webcam, microphone/speaker, and/or all-in-one) and power properly. See Assembling the Multimedia Hub on page 23 and Connecting the Multimedia Hub on page 29 for details.
6. Connect the Buttons to the desired devices and power properly. See Setting up and powering a Button/Host Button on page 31 for details.
7. Make sure that all the connected devices have been powered on. Press the source button of the display and make sure that the corresponding input source has been selected.

Assembling the Receiver

Prior to assembling the Receiver, record the web management interface password located on the bottom of the Receiver (before installing the lid). The password is required in order to log into the web management interface. Refer to Web management on page 43 for more information.

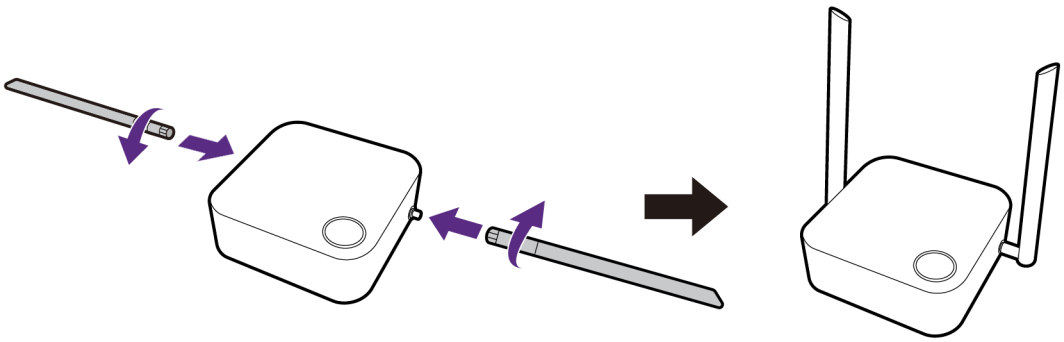


After recording the password, use a screwdriver to remove the screw securing the battery cover from the bottom of the Receiver and then remove the cover. Install the provided coin-cell battery into the battery compartment and then re-install the battery cover.



Once the battery is installed it is recommended that you either connect the Receiver to a network with Internet access to automatically update the Receiver's internal clock, or manually update the date and time via the Web Management menu. See Network connections on page 27 or System Time on page 61 for details.

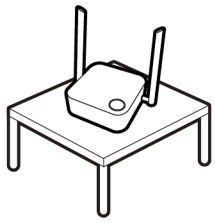
Assemble the Receiver with two antennas by turning the antennas clockwise to fasten them tightly.



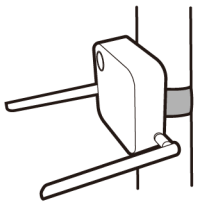
Setting up the Receiver

You are provided with three different ways to position the Receiver. The total weight of the Receiver Unit varies by model. See the specifications for the weight of your product.

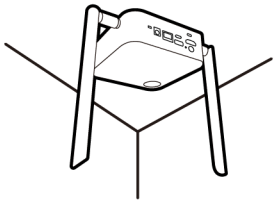
A. Tabletop



B. Pole mount



C. Wall/ceiling mount

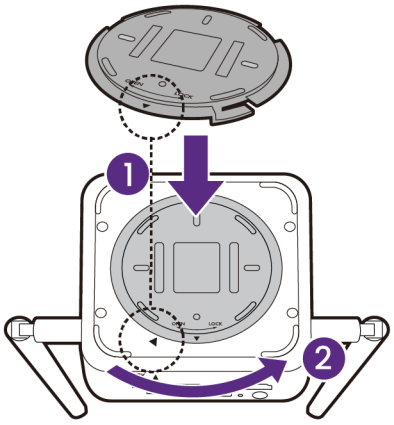


Placing the Receiver on a table

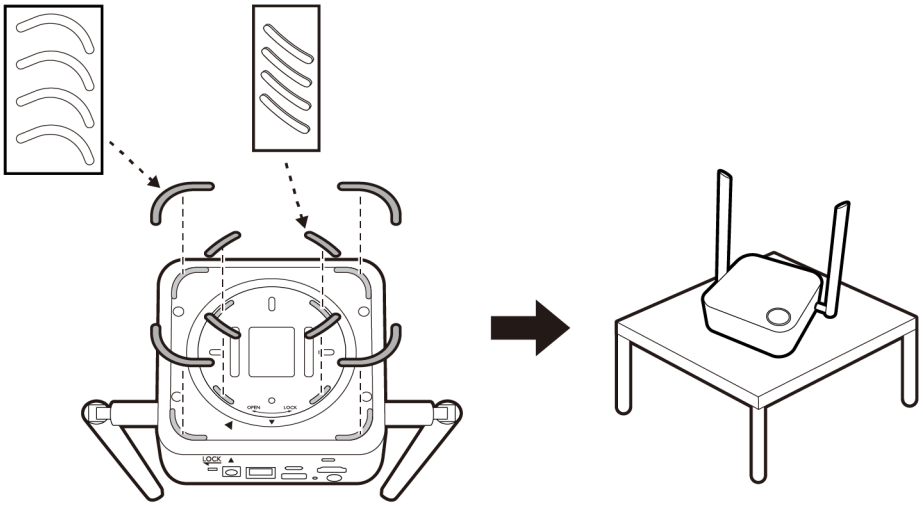
If your display is placed on a table, first attach the lid to the Receiver by following the process described below:

1. Align the top of the lid over the bottom of the Receiver so that the alignment arrow on the lid is pointed towards the alignment arrow on the bottom side of the Receiver, then push the lid into Receiver.
2. Follow the **LOCK** arrow displayed on the lid and turn the lid counter-clockwise until it clicks into place.

When the lid is correctly installed on the Receiver the alignment arrow should be pointed directly towards the rear of the Receiver.

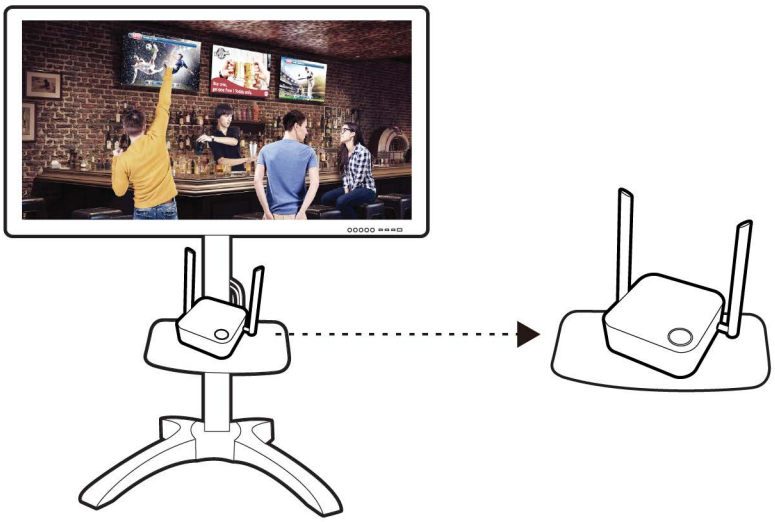


3. Attach the rubber feet to the recesses on the base of the lid and put the Receiver right next to the display.



- Please only use the rubber feet provided with the kit to attach to the Receiver.
- Please see Positioning the Receiver antennas on page 21 for guidelines on positioning the antenna to maximize signal reception.

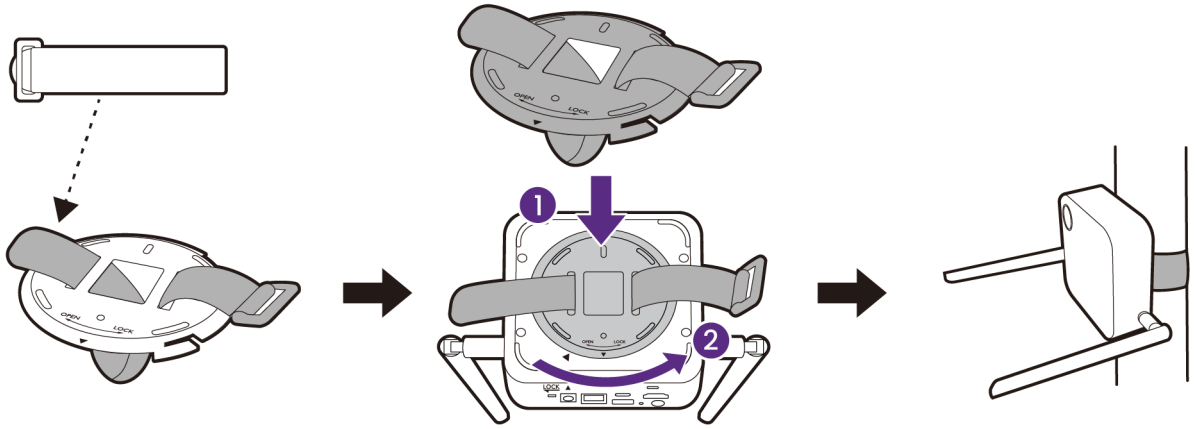
You can also place the Receiver on a mobile display trolley. See the illustration.



Attaching the Receiver to a pole mount

If the display is mounted on a pole:

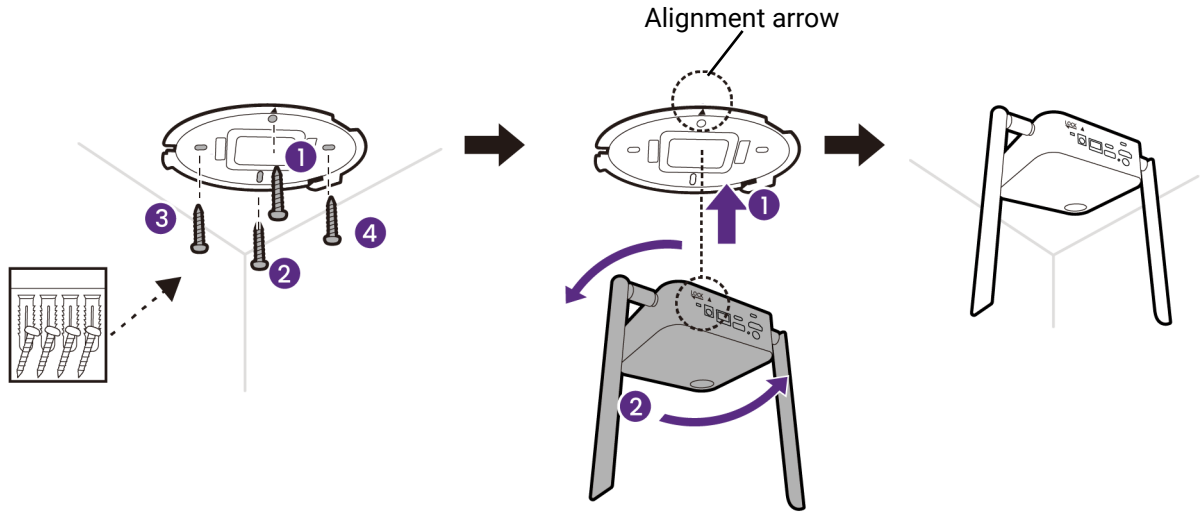
1. Install the provided velcro strap onto the lid.
2. Install the lid onto the Receiver. See Placing the Receiver on a table on page 17 for instructions on how to install the lid onto the Receiver.
3. Use the velcro strap to fix the Receiver to the pole mount as shown in the illustration.



- Please only use the velcro strap (250(L)mm*25.5(W)mm) provided with the kit to mount the Receiver to a pole mount.
- Please see Positioning the Receiver antennas on page 21 for guidelines on positioning the antenna to maximize signal reception.

Attaching the Receiver to the ceiling

1. Place the lid on the ceiling so that the alignment arrow on the bottom of the lid is oriented to where you want the rear of the Receiver to point after installation.
2. Use the screw anchors and screws provided to lock the lid to the ceiling.
3. Lock the first hole (1).
4. Follow the instruction in the illustration below to lock the other holes (2-4).
5. Align the Receiver so that the alignment arrow on the rear side of the Receiver points to the alignment arrow on lid and then mount the Receiver onto the lid.
6. Rotate the Receiver counterclockwise to affix the Receiver to the lid.



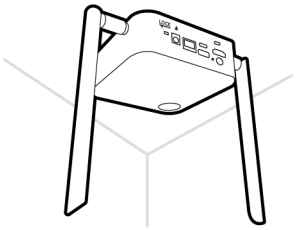
- Please only use the screws (M3*20 tapping screw) and screw anchors provided with the kit to mount the Receiver to the ceiling.
- Please see Positioning the Receiver antennas on page 21 for guidelines on positioning the antenna to maximize signal reception.

Positioning the Receiver antennas

Once you have properly installed the Receiver, follow the guidelines below to position the antennas to maximize signal reception:

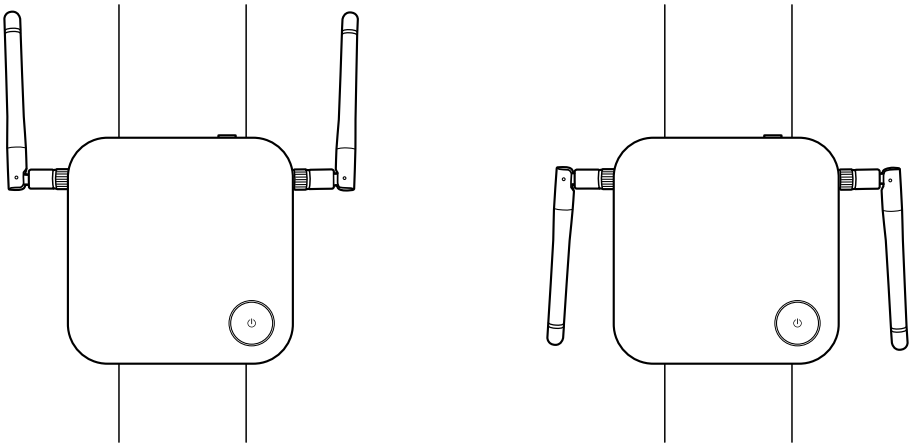
For ceiling installation

Position the antennas so that they are both pointed downwards at an angle roughly perpendicular to the ceiling:

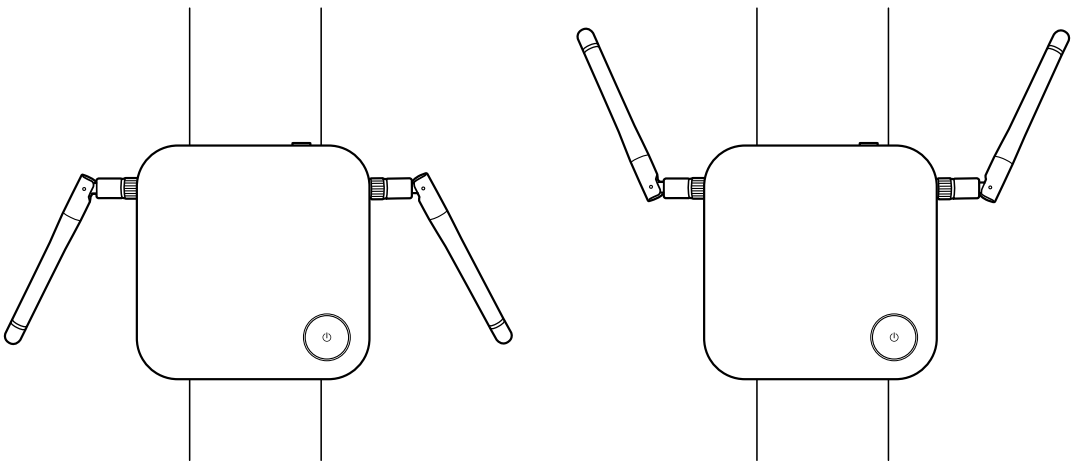


For pole mount installation

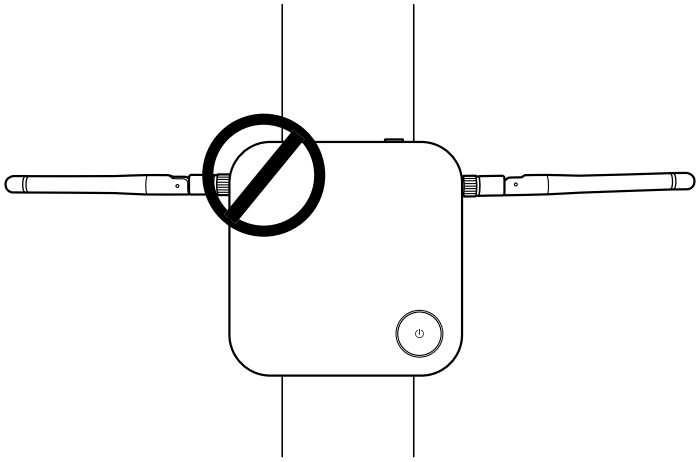
- Position the antennas so that they are both pointing either upwards or downwards roughly parallel to the pole mount:



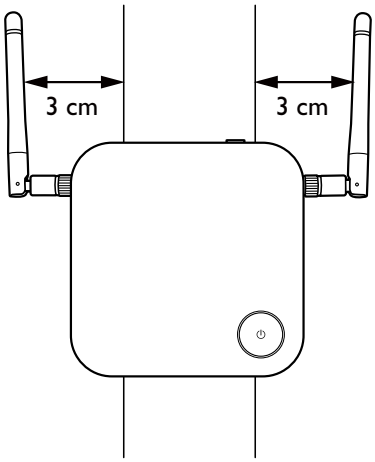
- If you encounter bad signal reception after initial use of the Receiver you can manually adjust the antennas so that they tilt at a slight angle to maximize signal reception. When doing so, avoid tilting the antennas toward the pole mount:



- Avoid positioning the antennas in a horizontal manner, this may result in a weak signal reception:

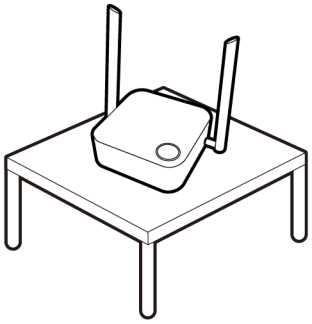


- If the Receiver is attached to a metallic pole mount ensure that the antennas are at least 3 cm away from the metal portion of the ceiling mount:



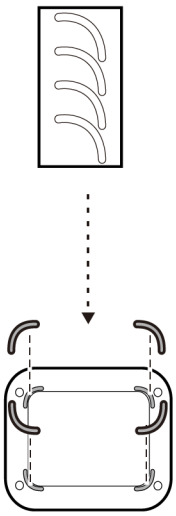
For table placement

Position the antennas so that they are both pointed upwards roughly perpendicular to the table:



Assembling the Multimedia Hub

Attach the rubber feet to the recesses on the base of the Multimedia Hub and put the Multimedia Hub next to the where the external video conferencing devices are.



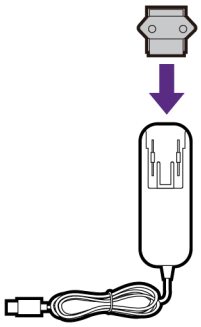
Please only use the rubber feet provided with the kit to attach to the Multimedia Hub.

Assembling the adapters

Every adapter provided in the box includes a plug socket and plugs based on the region in which you purchased the product.

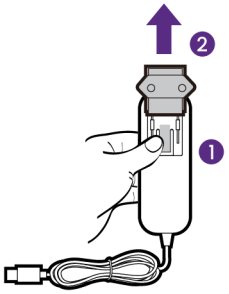
To connect the plug, follow the steps below.

1. Align and insert the plug into the adapter.
2. Push the plug outward until it clicks into place.



To disconnect the plug, follow the steps below.

1. Push the latch in the middle of the plug.
2. Detach the plug by pushing it inward and remove the plug.



Connecting the Receiver

Once the Receiver has been positioned properly near the display, connect the display and power cables to ensure signal transmission.

1. Connect the Receiver to the projector/display via HDMI or USB-C.

   A. Video input via HDMI

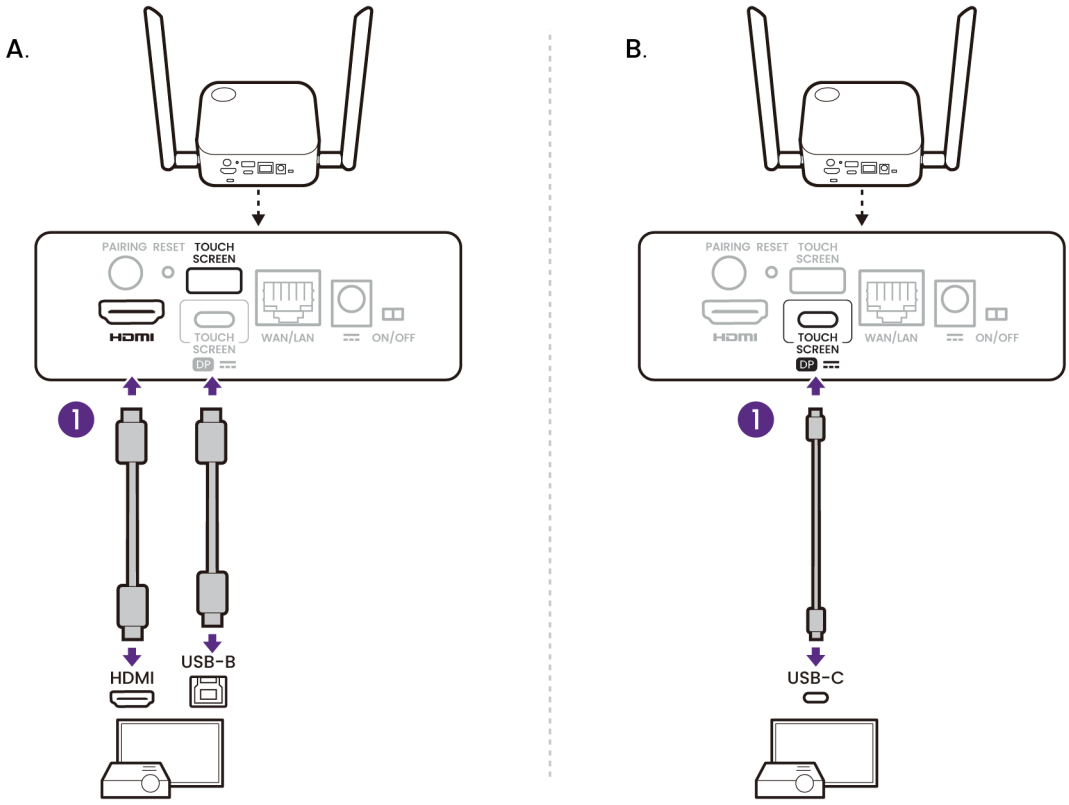
   Connect the HDMI cable to the HDMI out port on the Receiver and the HDMI input port of the projector/display.

   (Optional) To allow a touch screen display to remotely control the interface of a presenter's PC via touch gestures (i.e., touchback), connect the **TOUCH SCREEN** USB-A port on the Receiver to the USB-B port on the touch screen display.

   B. Video input via USB-C

   Connect the **DP** USB-C port on the Receiver to the USB-C port with DisplayPort capabilities on the projector/display using a USB-C cable (purchased separately) that supports DisplayPort Alt Mode functionality. This port also supports touch screen functionality, which allows a touch screen display to remotely control the interface of a presenter's PC via touch gestures (i.e., touchback).

- The Receiver's HDMI out port and **DP** USB-C port can be connected to separate displays/projectors simultaneously. If they are connected so, both displays/projectors will show the same presentation screen once the Receiver is powered on.
- The product only supports touchback functionality for Windows-based PCs and Macs compatibility. It does not support touchback for smartphones connected via their respective screen casting technologies. Additionally, it does not support USB hot-plugging for touchback. Please ensure the USB touch connection is properly established before powering on the device.

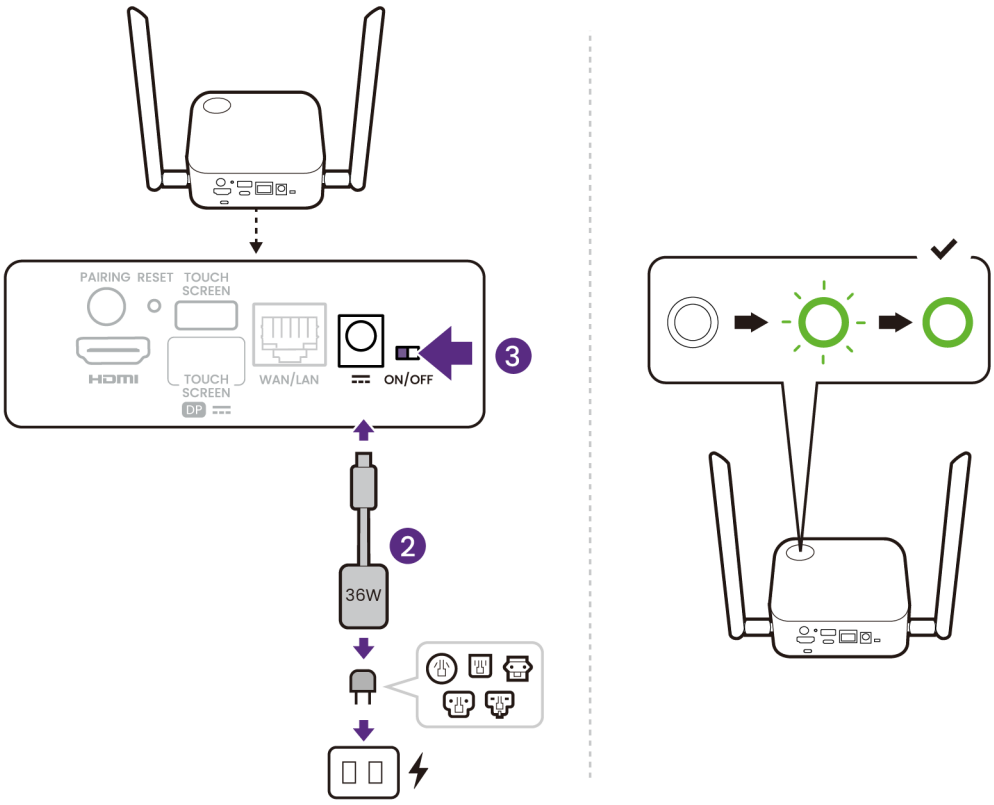


2. Connect the supplied power adapter to the power port on the Receiver, and then plug the other end of the power adapter into a wall socket.

For displays or projectors with a DisplayPort/USB-C port with Power Delivery capabilities, the Receiver can also be powered via the USB-C connection in step 1 using a cable that supports 35W of Power Delivery.The USB-C cable must be purchased separately.

3. Slide the power switch on the Receiver to the on position.

4. The LED indicator on the power button of the Receiver lights up static green when the power is supplied.



For BenQ IFP (Interactive Flat Panel) products, please have power supplied via a power adapter.

Do not keep the device powered on all the time. For better performance, power off the device for 30 minutes every 24 hours then restart it.

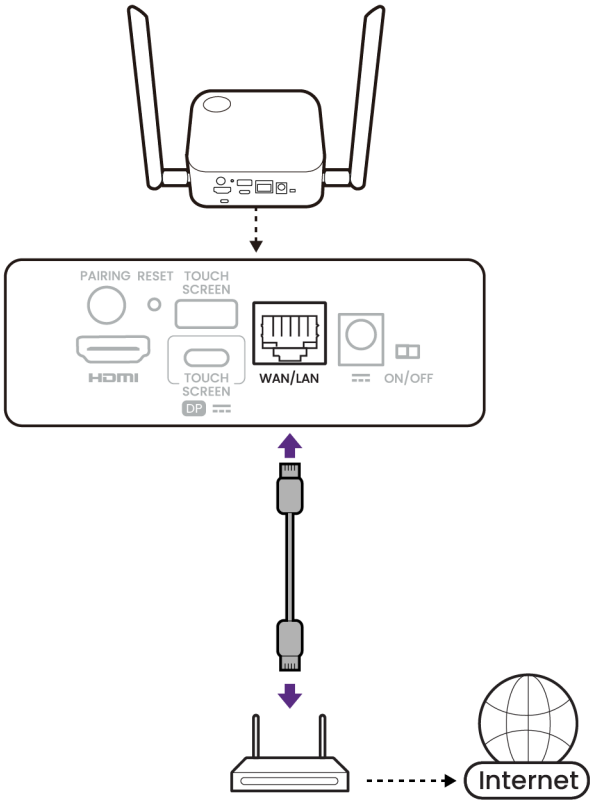
Network connections

LAN connection

The Receiver can be connected to a local network via its **WAN/LAN** port. The LAN connection can be used to:

- Provide Internet access to the devices connected to the Receiver.
- Configure your product, see Web management on page 43 for more information.
- Update the firmware, see Firmware Upgrade on page 43 for more information.

Insert a network cable with RJ-45 connectors into the **WAN/LAN** port and connect the other side to a LAN.



Wi-Fi connection

The Host can also be connected to a network via a Wi-Fi connection. To connect to a Wi-Fi network:

1. Log into the web management menu using the steps described in Accessing the web management interface on page 43.
2. Click the **WAN** menu in the web management menu.
3. In the **WAN Connection Type** field, select **Repeater**.
4. In the **SSID** field, enter the SSID of the Wi-Fi access point you want the Host to connect to.
5. In the **Security Mode** field select either **WPA2** or **WPA/WPA2 Mixed** for the type of security you want for the Wi-Fi connection.
6. In the **Password Setting** field enter the password for the Wi-Fi access point you want the Host to connect to.
7. In the **Frequency** field select the frequency of the Wi-Fi access point you want the Host to connect to.
8. Select **Apply** at the bottom of the menu.

Connecting the Multimedia Hub

1. Connect the Multimedia Hub to the video conferencing device(s) (e.g., webcam, microphone/speaker, and/or all-in-one) using any of the following methods:

> If the multimedia capabilities needed for video conferencing are split between two devices (e.g., a webcam and a speakerphone or a 2-in-1 webcam and a soundbar), you can connect both devices to the Multimedia Hub using the methods described below, and the Multimedia Hub will automatically detect and utilize the function that corresponds to the respective device.

- Connect the **USB C** of the Multimedia Hub to the USB-C port on the video conferencing device using a USB-C cable.

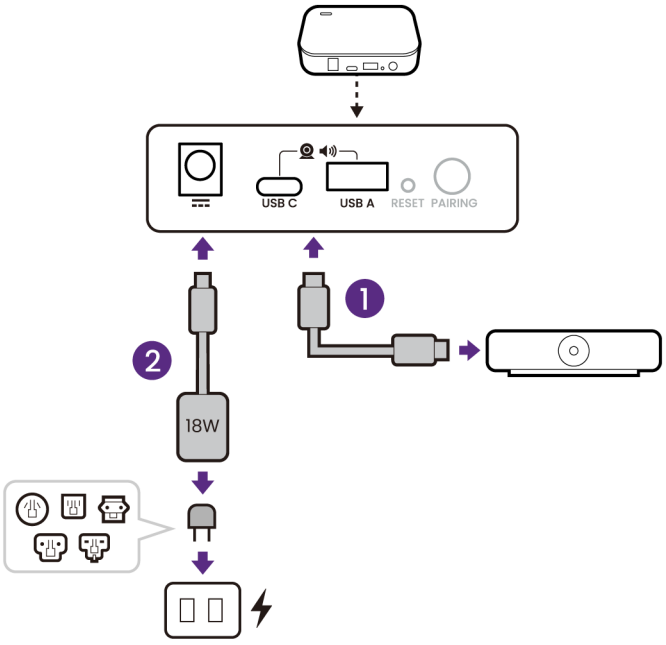
> The USB-C cable must be purchased separately.

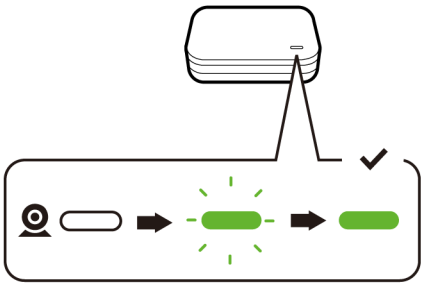
- Connect the **USB A** of the Multimedia Hub to the USB-A port on the video conferencing device using a USB-A cable.

> The USB-A cable must be purchased separately.

2. Connect the supplied power adapter to the power port on the Multimedia Hub, and then plug the other end of the power adapter into a wall socket.

The LED indicator on the Multimedia Hub lights up static green when it is properly connected.



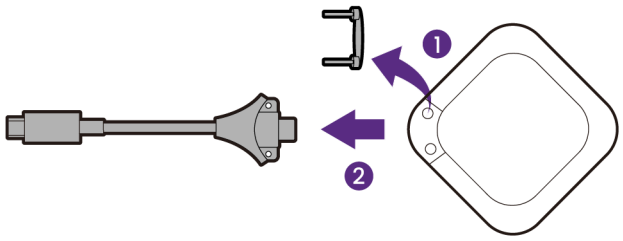


Switching to the Button/Host Button HDMI cable

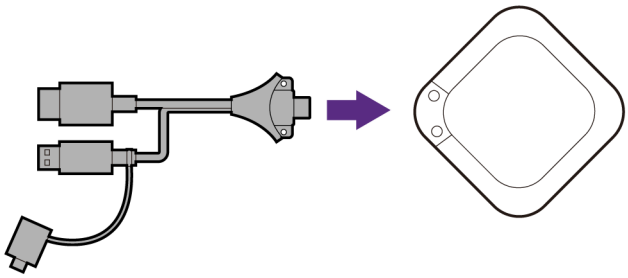
The following instructions can be applied to both Buttons and Host Buttons.

A product set includes an additional Button HDMI cable which can be installed onto a Button or Host Button to allow it to work with laptops without a USB-C port with DisplayPort functionality. To switch the cable on the Button/Host Button to the HDMI cable, follow the steps below:

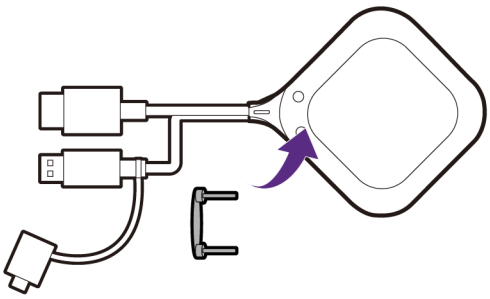
1. Use your fingers to pry out the U-magnet bolt from the bottom side of the Button/Host Button.
2. Pull the plastic end of the USB-C cable to remove it from the Button/Host Button.



3. Push the HDMI cable into the compartment on the Button/Host Button so that the connectors on the cable are inserted into the corresponding connectors on the Button.



4. Re-install the U-magnet bolt to the bottom side of the Button/Host Button.

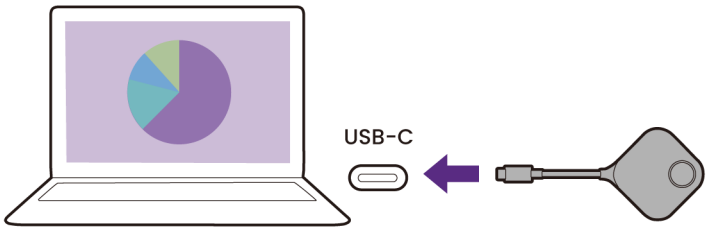


The package contains a spare U-magnet bolt in case any of the Button/Host Button's U-magnet bolt become lost.

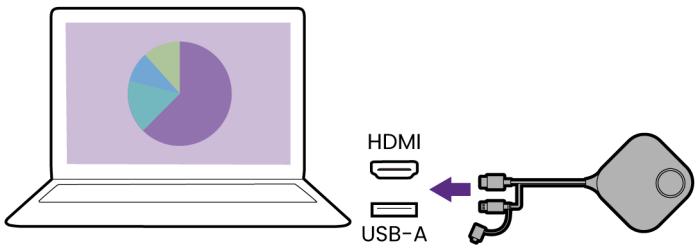
Setting up and powering a Button/Host Button

The following instructions can be applied to both Buttons and Host Buttons.

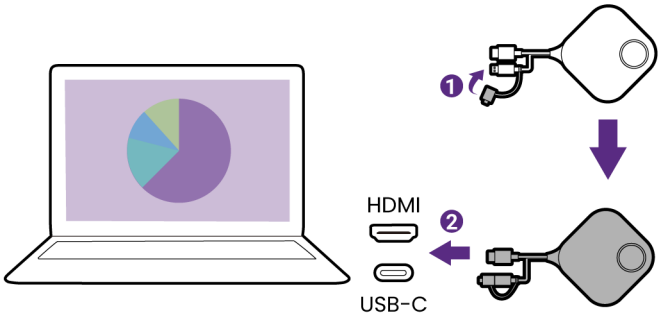
1. Connect the Button to a laptop using one of the following methods:
   - For laptops with a USB-C port that supports DisplayPort functionality, connect the Button's USB-C connector to the corresponding input of the laptop.



   - For laptops with only HDMI and USB-A ports, switch the Button's connector to the HDMI cable, and connect the Button's HDMI and USB-A connectors to the corresponding inputs of the laptop.



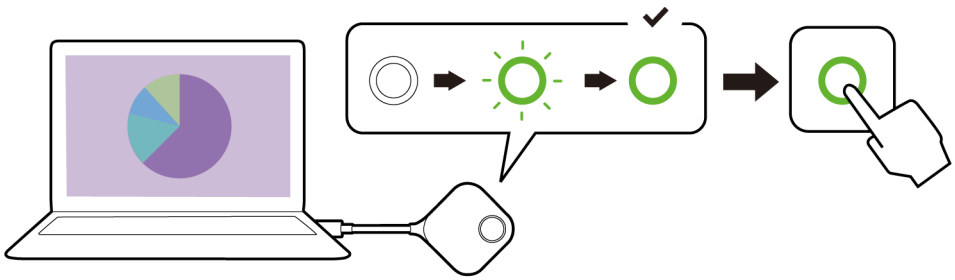
   - For laptops with only HDMI and USB-C ports without DisplayPort functionality, switch the Button's connector to the HDMI cable, install the USB-C adapter at the end of the HDMI cable, and then connect the Button's HDMI and USB-C connectors to the corresponding inputs of the laptop.



- For instructions on how to switch to the HDMI and USB-A cable for the Button, see Switching to the Button/Host Button HDMI cable on page 30.
- From hereinafter the images and text will only feature a Button using the default USB-C cable.

2. The LED indicator of the Button will flash green while the Button is starting up.

3. When the Button is ready to present, the LED indicator will turn solid green. Press the Present key when the LED indicator turns green.

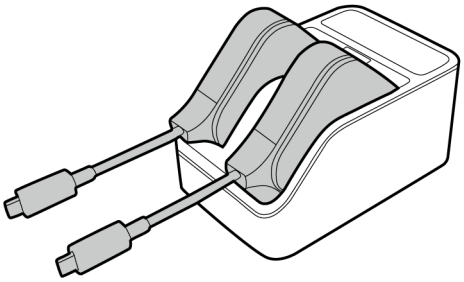


- If the Button encounters problems while pairing with the Receiver during startup, the LED indicator will flash red. Repeat the previous process again until the LED turns solid green. See Button LED indicator on page 13 for more information on LED behavior.
- Handle the Button cable with care. Rough handling might cause defects.
- Pull/Push the connectors instead of the cable when inserting or removing Buttons.

If you purchase an additional Button (via a Button Kit), you need to pair the Button with a Receiver first. See Pairing a Receiver and a separately purchased Button on page 72 for details. The Button will be ready for use after pairing.

Storing Buttons and USB cable in the cradle

Place the Buttons in the cradle horizontally and then use the slot in the rear of the cradle for any suitable accessories/cables. See the illustration below.



Wireless presentations (WPS)

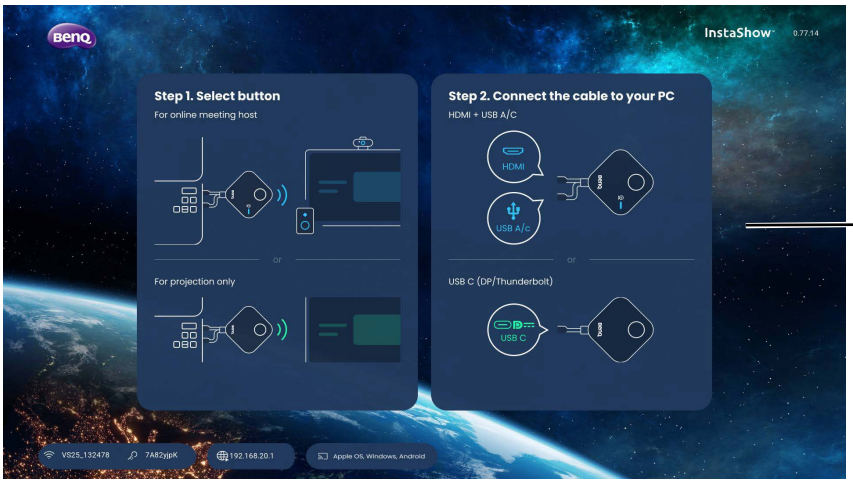
This section will guide you on how to start a presentation using the product.

Presenting Wirelessly

1. Make sure the Receiver is properly connected to the display/projector and a power source. See Connecting the Receiver on page 25 for more information.

   If the Receiver's HDMI out port and **DP** USB-C port are connected to separate displays/projectors simultaneously, both displays/projectors will show the same presentation screen.

2. Choose the video input source corresponding to the Receiver on the display. You will see the Guide screen.



3. Follow the instruction on the Guide screen to supply power to the Button. You can also see Setting up and powering a Button/Host Button on page 31 for more information. The LED indicator on the Button is static green when the Button is connected and working properly.

4. To start a presentation, press the Present key.

5. The device starts presenting, and the LED indicator of the Button turns static blue.

- Make sure the transmission distance between the Button and Receiver is within 40 meters and with no obstacles.
- The product supports MacBooks and Windows laptops to mirror an extended desktop.

To stop a presentation, press the Present key. The device will stop presenting and the LED indicator of the Button will turn green.

Split screen presentations

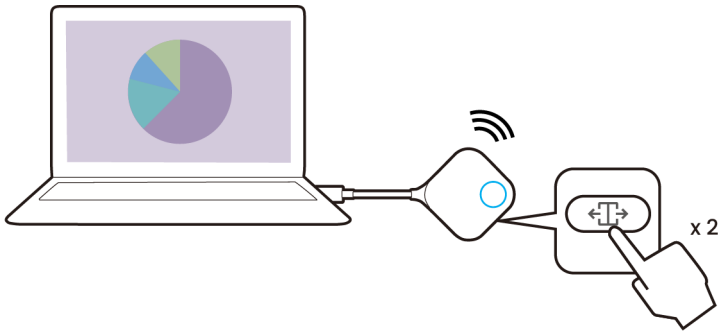
The product allows up to 4 users to present simultaneously in a split screen orientation.

Starting a split screen presentation

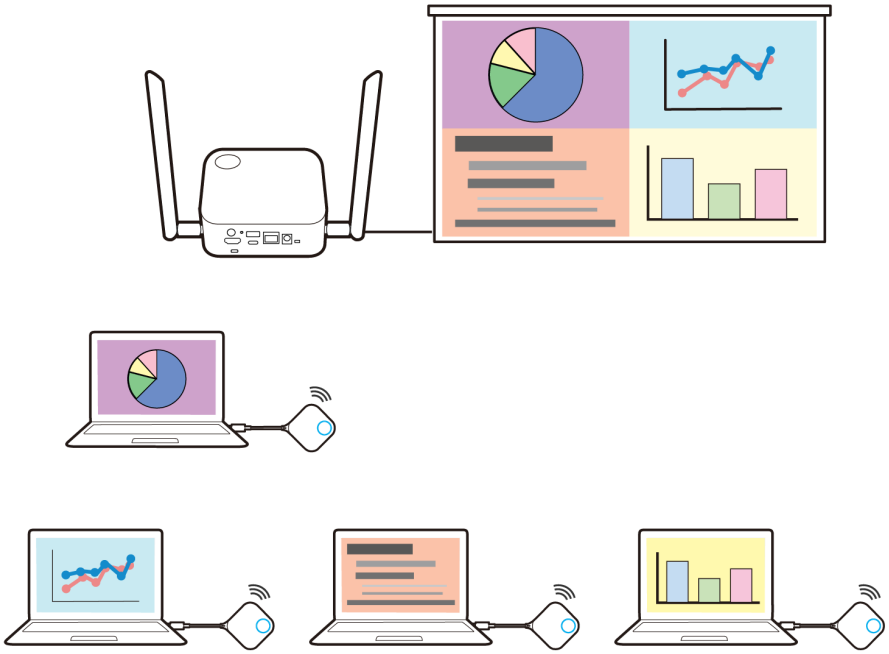
1. Connect a Button to each computer that will be presenting in the split screen presentation. See Setting up and powering a Button/Host Button on page 31 for more information.

Make sure that all Buttons have already been paired to the Receiver projecting the presentation. See Pairing a Receiver and a separately purchased Button on page 72 for more information.

2. Start a normal presentation using the button on one of the paired Buttons. See Presenting Wirelessly on page 33 for more information.
3. Quickly press the split screen button on the Button that started the presentation twice to enable split screen presentations.



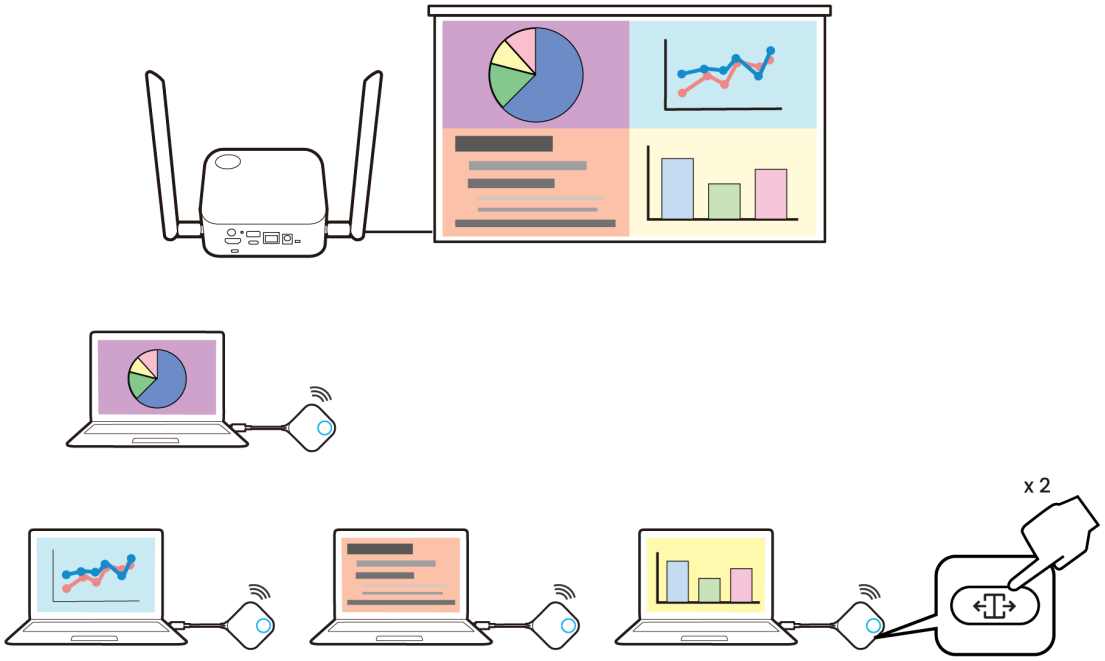
4. Once a notification appears on-screen indicating that the split screen function has been enabled, press the Present key on the Button of the second computer that wants to join the split screen presentation.
5. Repeat step 4 for all other users that want to join the split screen presentation.



- Only up to 4 users are simultaneously supported in a split screen presentation.
- The layout of the split screen presentation will be dictated by the amount of users in the presentation.
- If split screen is not enabled by the initial Button, all subsequent connections by other Buttons will be full screen presentations.

Switching from a split screen to a full screen presentation

Once in a split screen presentation you can switch to a full screen presentation of any of the participant's screen by pressing the split screen button twice on the Button of the computer that wants to present in a full screen.



To return to a split screen presentation, repeat the steps in Starting a split screen presentation on page 34.

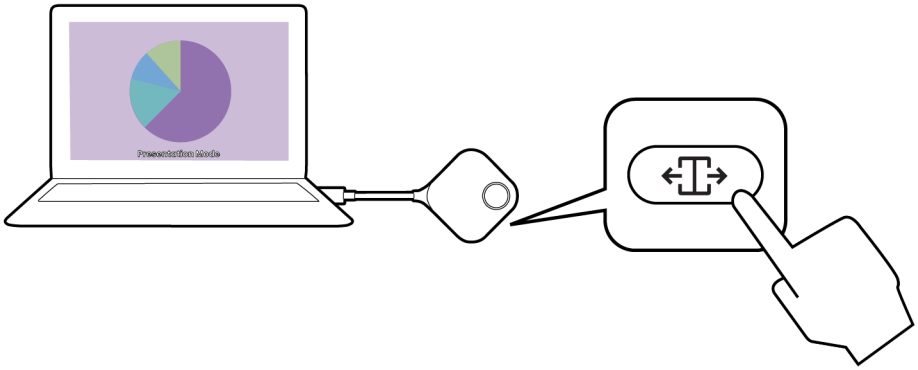
Playing videos with InstaShow™

InstaShow™ is primarily for the use of business presentation with documents such as PowerPoint, Word, Excel, PDF, and video clips.

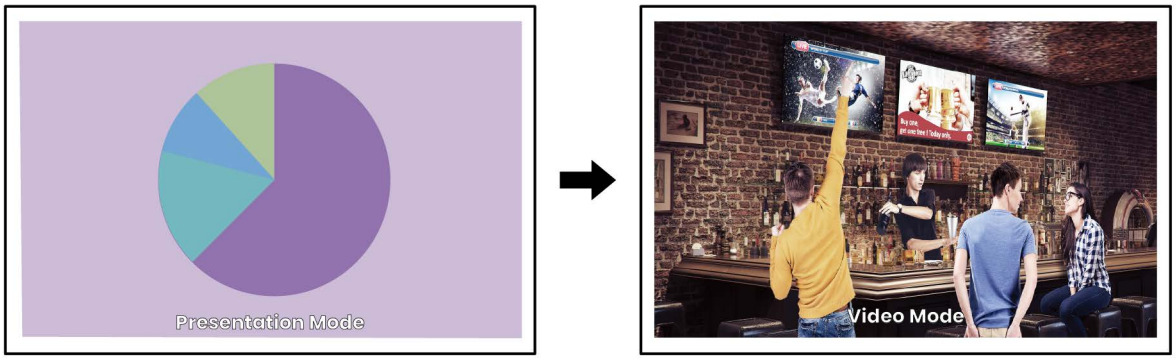
Our exclusive InstaVideo function optimizes InstaShow's audiovisual settings to instantly switch from clear **Presentation Mode** to smooth **Video Mode** with stereo sound at the click of a button without requiring IT support, cable clutter or complex software settings. By enabling presenters to quickly customize the projection for precise productivity or smooth wireless video, users can confidently blend text, graphs and charts, pictures, and multimedia audio and video without hesitation for the most effective meetings.

InstaVideo introduces two modes: **Presentation Mode** and **Video Mode**.

1. The default mode is **Presentation Mode**. It presents clear document files. If you want to view your video projected smoothly, switch to **Video Mode** by pressing the split screen key once to proceed.



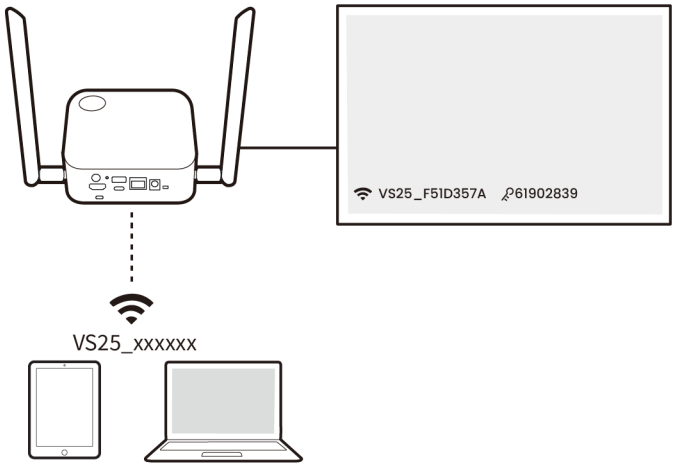
2. You can see the **Video Mode** message on the bottom of the screen. Now you can play videos smoothly.



Presenting with mobile devices (BYOD)

InstaShow also allows Apple, Windows, and Android mobile devices to directly connect to the Receiver to mirror their screen via the device's screen mirroring technology.

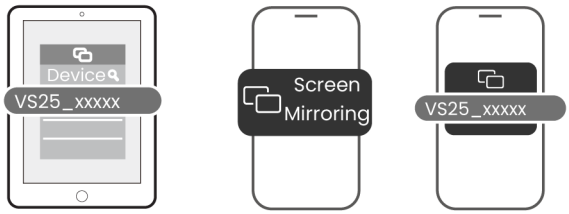
Before you can mirror your screen you must first connect to the SSID of the Receiver that is shown at the bottom-left corner of the Guide/Idle screen in the Wi-Fi menu of the device.



Then follow the instructions below based on the type of device you are using.

Presenting with an Apple device

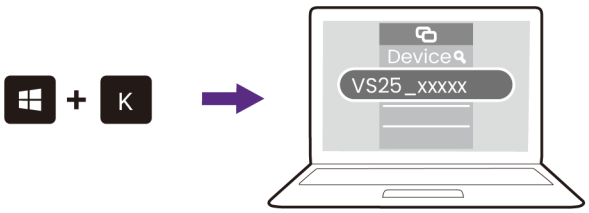
1. Open the screen mirroring menu on the device.
2. In the screen mirroring menu, select the SSID of Receiver.



Presenting with a Windows device

1. Press the Windows (⊞) and **K** keys simultaneously on the device to open the casting menu.

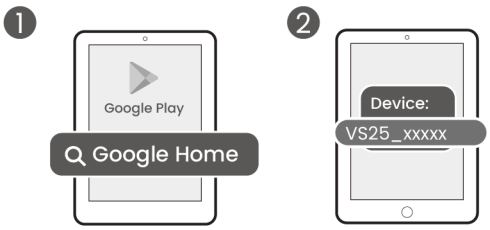
2. In the casting menu, select the SSID of Receiver.



Presenting with an Android mobile device

To be able to mirror your Android device's screen, the date and time on the Receiver must be correct. To ensure that your Receiver's date and time settings are correct, either connect the Receiver to a network with Internet access or manually configure the date and time in the Web Management menu. See System time on page 61 for more information.

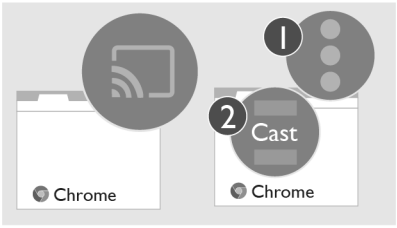
1. Launch the Google Home app on the device.
2. In the screen mirroring menu, select the SSID of Receiver.



Presenting with a PC via Chrome browser

To be able to mirror your PC's screen via its Chrome browser, the date and time on the Receiver must be correct. To ensure that your Receiver's date and time settings are correct, either connect the Receiver to a network with Internet access or manually configure the date and time in the Web Management menu. See System time on page 61 for more information.

1. Launch the Chrome browser on the PC.
2. Click the More (⋮) button at the top-right corner of the Chrome browser.
3. In the More menu, select the **Cast, save, and share** > **Cast** option.
4. In the **Cast** menu, select the SSID of Receiver.



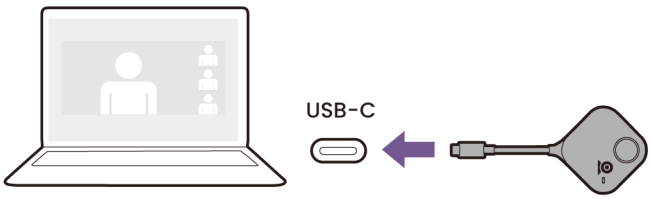
Wireless conferencing (BYOM)

InstaShow is a wireless conferencing system that can be fully integrated into any hybrid meeting that uses video conferencing applications, so that all the participants in a conference room are able to view and interact with the video conference and the content that is shared there.

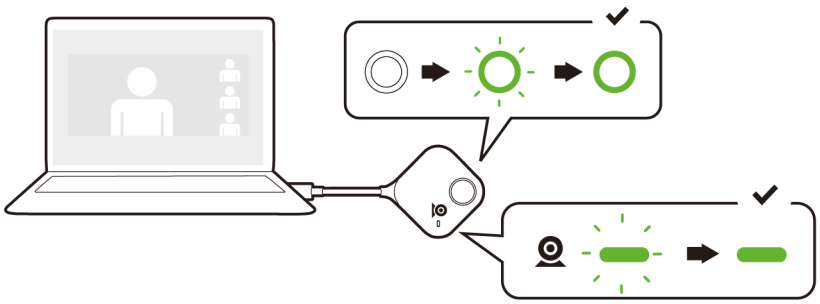
Setting up a wireless video conference

To set up a video conference with InstaShow:

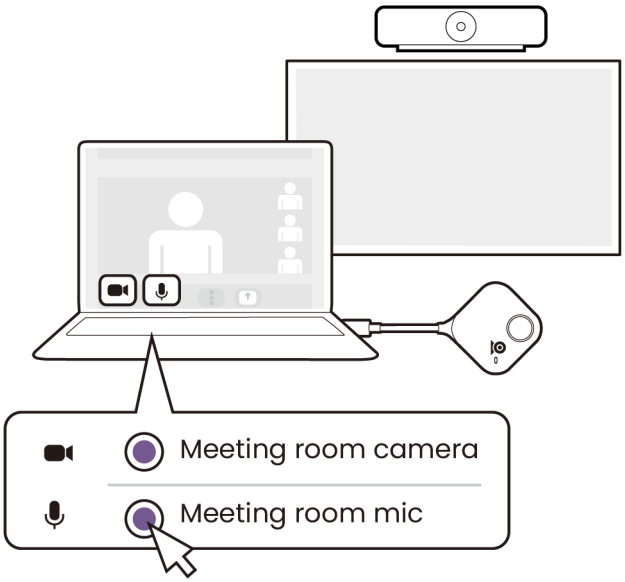
1. Connect the Receiver to the display/projector and power. See Connecting the Receiver on page 25 for more information.
2. Connect your video conferencing devices to the Multimedia Hub. See Connecting the Multimedia Hub on page 29 for more information.
3. Connect a Host Button to the laptop that is running the video conferencing application. See Setting up and powering a Button/Host Button on page 31 for more information.



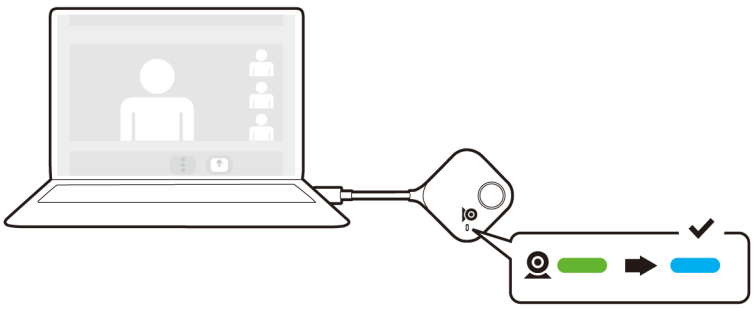
4. Wait until both the Button LED indicator and the Multimedia LED indicator on the Host Button lights up solid green.



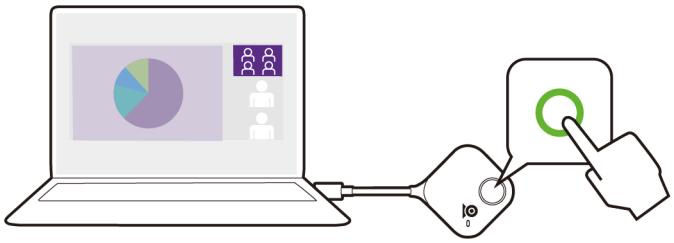
5. In the video conference window on the laptop, configure the following settings:
   - In the camera menu, select the device that is connected to the Multimedia Hub which features a camera (e.g., all-in-one video bar or webcam).
   - In the microphone menu, select the device that is connected to the Multimedia Hub which features a microphone (e.g., all-in-one video bar or speakerphone).
   - In the speaker menu, select the device that is connected to the Multimedia Hub which features a speaker (e.g., all-in-one video bar or speakerphone).



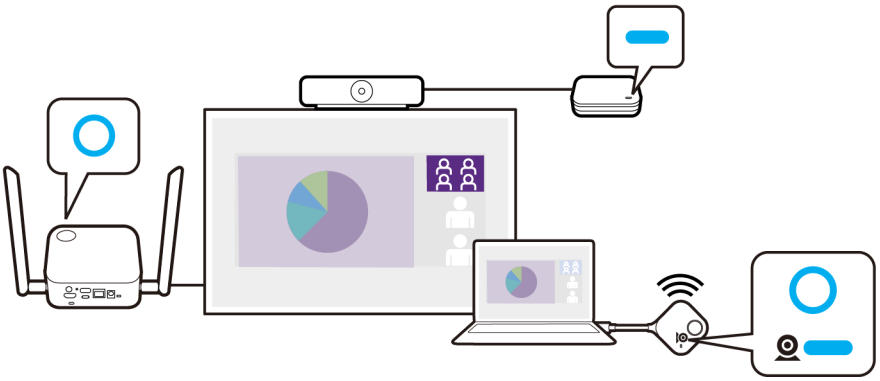
6. The Multimedia LED indicator on the Host Button lights up solid blue once the Multimedia Hub successfully transmits video/audio from its connected devices to the video conference via the Host Button.



7. Press the Present key on the Host Button.



The video conference will be shown on the conference room display/projector, with the video feed from the webcam being broadcast to the participants in the video conference and the sound from the conference room and video conference being broadcast to their respective counterparts (depending on the devices connected to the Multimedia Hub).



Web management

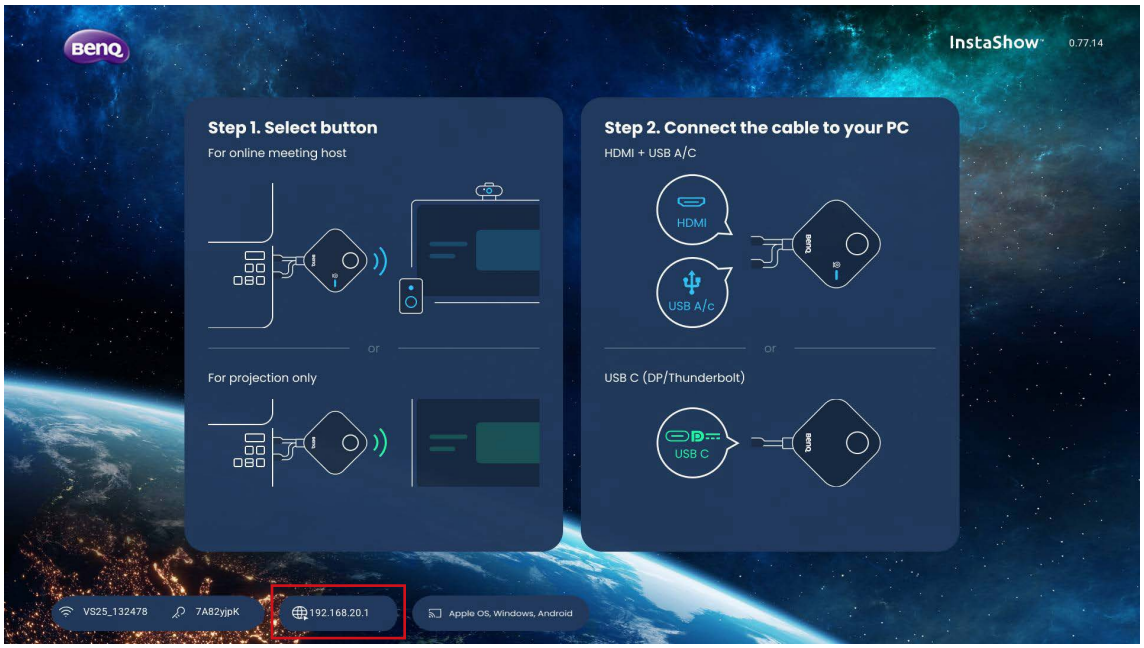
The product is equipped with a web management interface that enables you to configure its features through a browser such as Google Chrome (version 49.0.26), Internet Explorer (version 8.0), or Firefox (version 46.0.1).

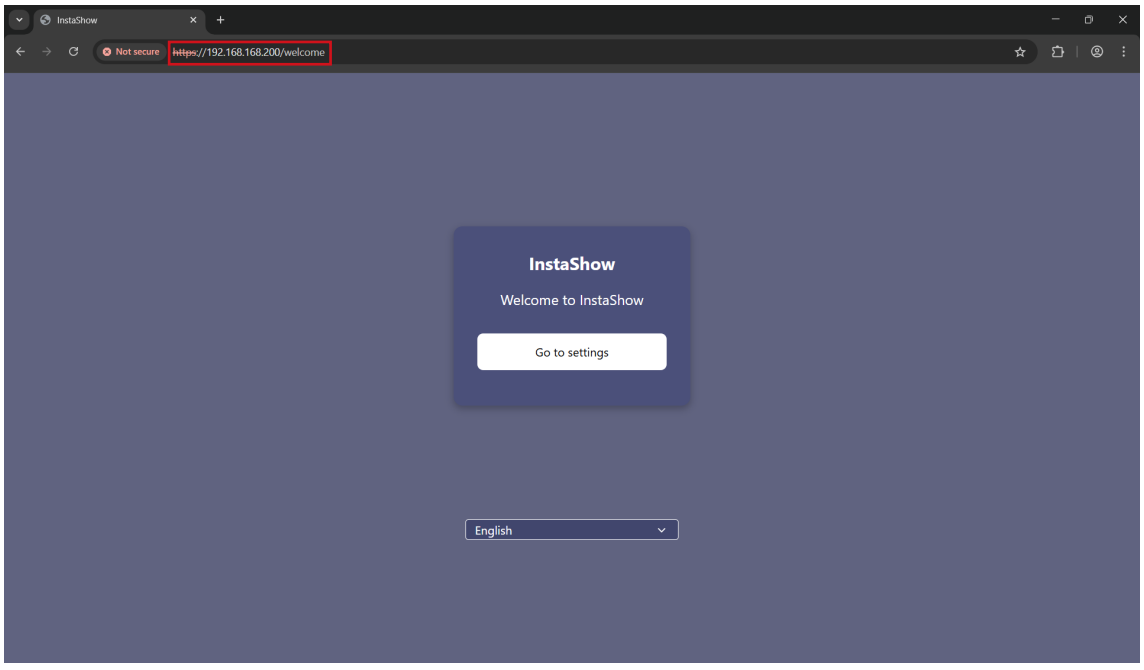
The features may vary according to different firmware versions.

Accessing the web management interface

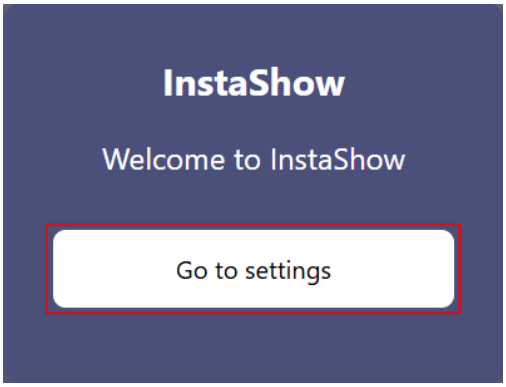
Logging into the web management interface via LAN

1. If your Receiver is connected to your LAN (the same network as your laptop), you can enter the IP Address shown on the screen via a web browser.

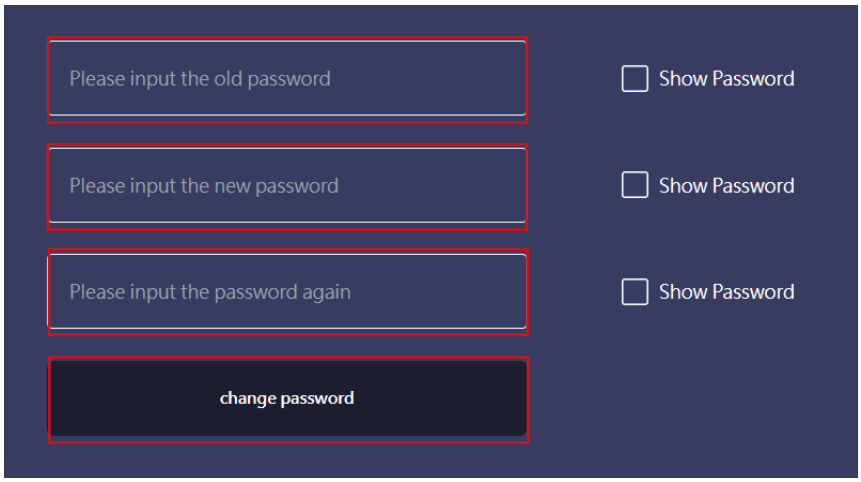




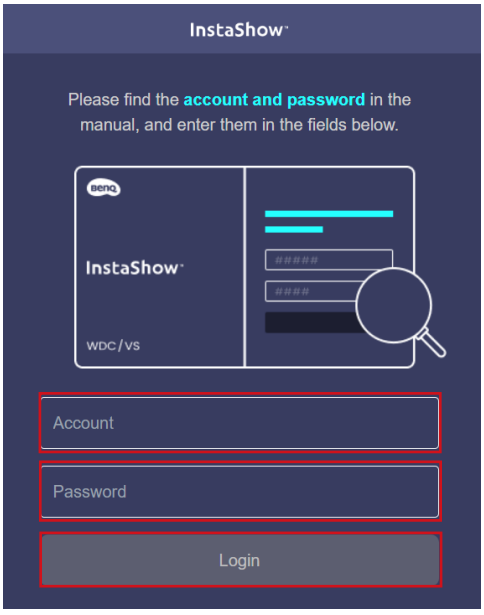
2. Your browser will then display the welcome screen, select **Go to settings**.



3. At the first access to the web management interface or after a firmware upgrade, you may be prompted to change the password to proceed. Enter the default password located on label at the bottom side of the Receiver (without the lid installed) as the old password, and set a new one.



If you are not requested to change the password on the login page, enter the default user name (admin) and your password (as changed earlier).



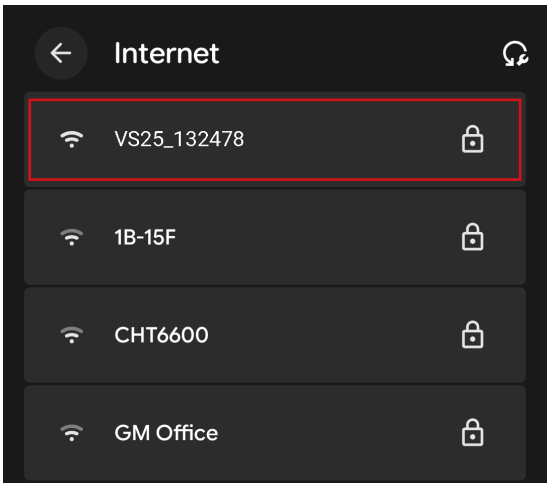
You will successfully log into the web management interface.

Logging into the web management interface via a wireless network

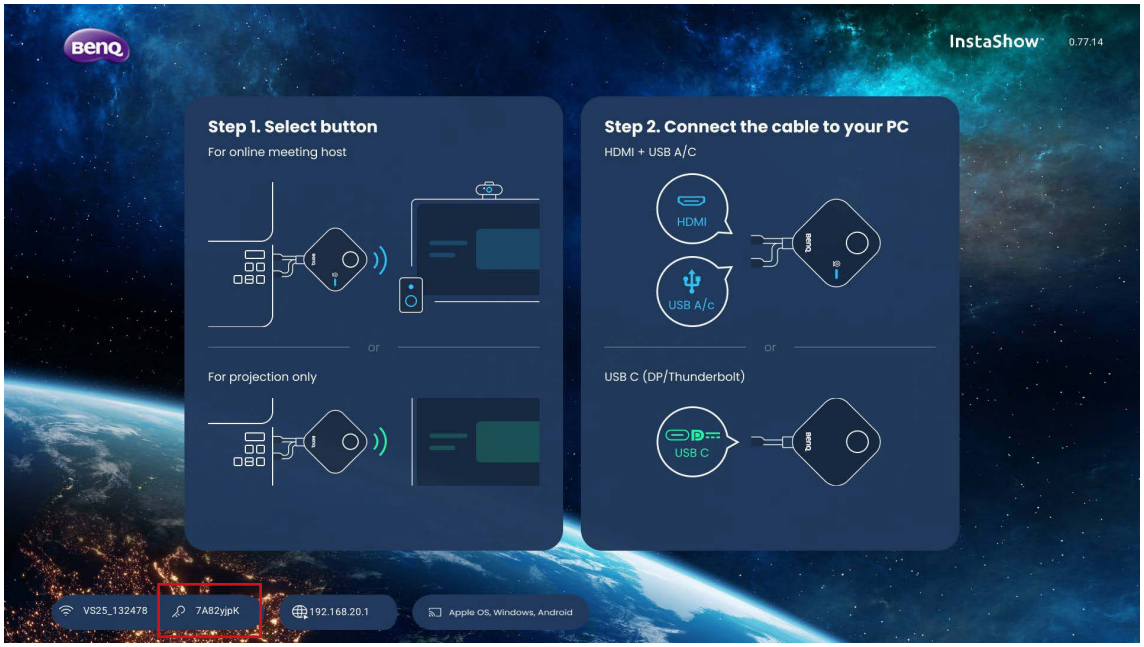
The product supports 802.11 ax/ac/n. It is compatible with most devices with Wi-Fi capability (e.g. laptop or mobile devices), you can locate the Receiver via the VS25_xxxxxx SSID (shown in the Guide/Idle screen) in your laptop or mobile device's wireless network menu and connect to it. The password is the randomized password that is shown on the screen. When the device is connected to the Receiver, enter the IP Address shown in the Guide/Idle screen in a web browser, then enter the user name and password as shown in steps 2 - 4 of Logging into the web management interface via LAN on page 43.

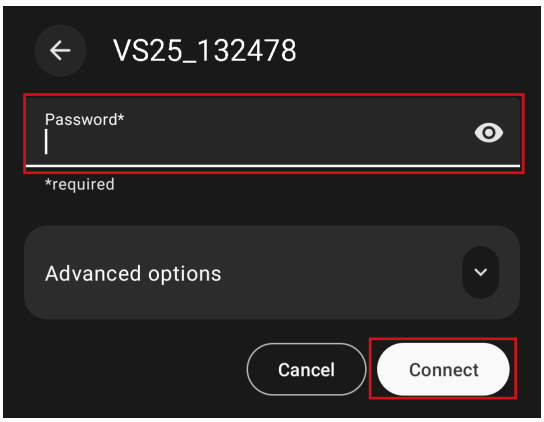
The following is an example of how you can log into the web management interface via a mobile device with a wireless connection.

1. Go to Wi-Fi menu of the mobile device, and you can find the SSID of your Receiver: VS25_132394.



2. Enter the password located at the bottom-left corner of the Guide/Idle screen (next to the SSID) and press **Connect**.

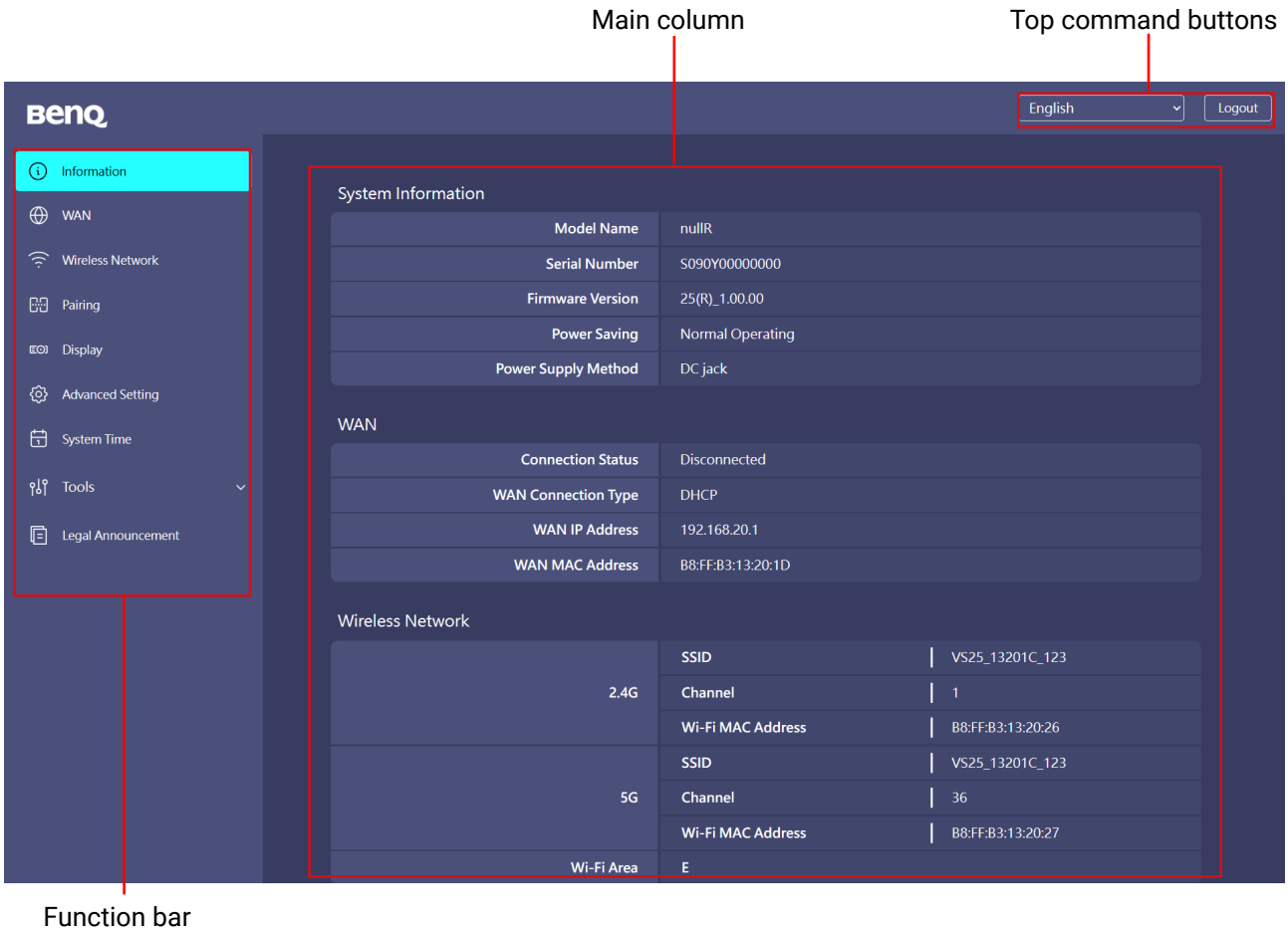




3. Access the web management interface following step 2 - 4 of Logging into the web management interface via LAN on page 43.

Getting started

You can now use the web management interface to configure various settings of your Receiver.



Top command buttons

Language

The default language for the web management interface is English.

Logging out

Click **Logout** on the upper right corner.

Function bar

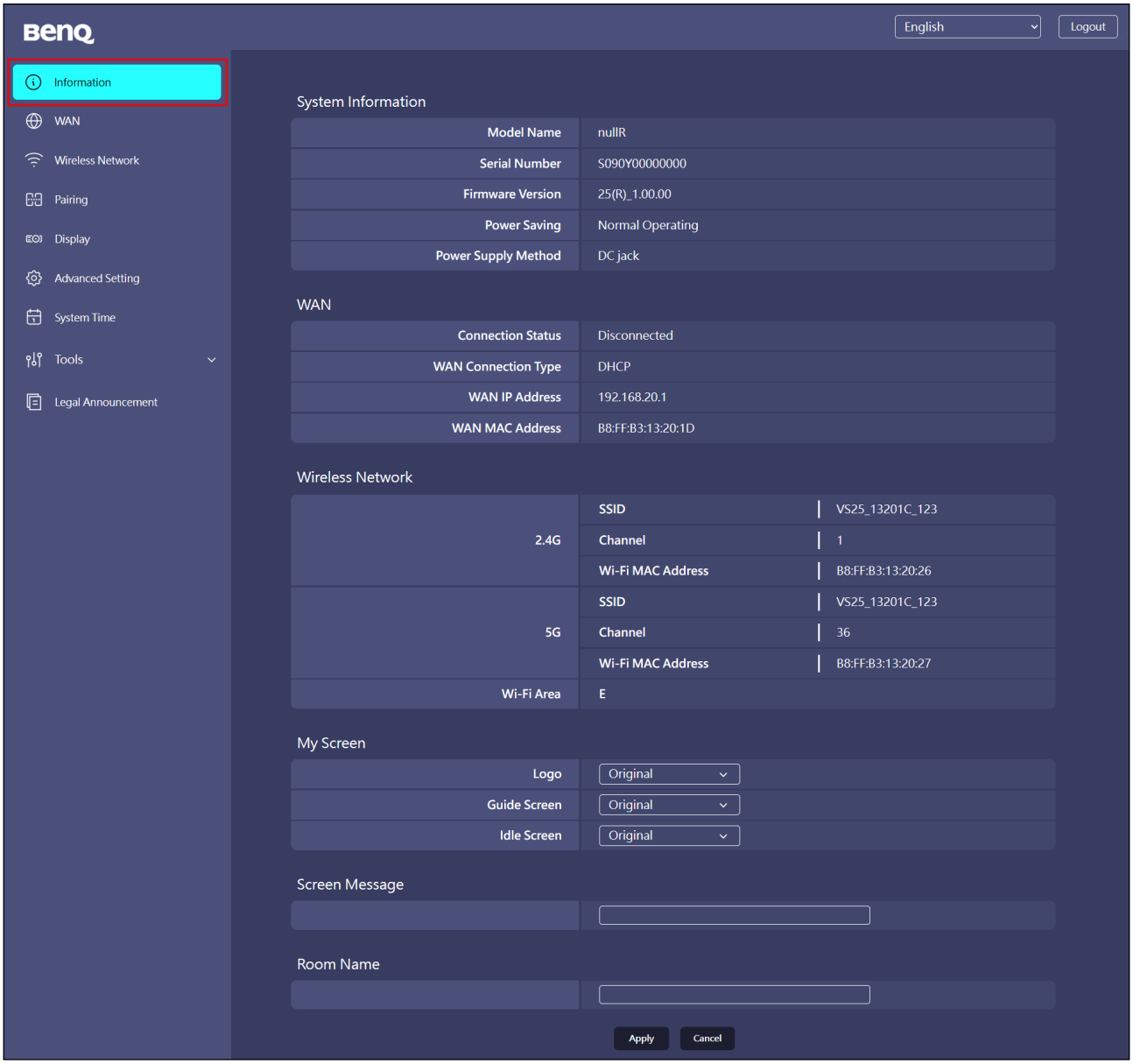
The function bar shows the settings menus available in the web management interface.

Main column

The main column shows the detailed content from the function bar.

Information

Click **Information** and you will see detailed information for **System Information**, **WAN**, **Wireless Network**, **My Screen**, **Screen Message,** and **Room Name**.



System Information

The **System Information** sub-menu lists the following basic system information for the Receiver:

- **Model Name**
- **Serial Number**
- **Firmware Version** - To update the firmware, see Firmware Upgrade on page 63.
- **Power Saving -** Lists if the Receiver is currently in normal or standby mode.
- **Power Supply Method** - Indicates which port the Receiver is currently powered by.

WAN

The **WAN** sub-menu lists the following information for the Receiver's WAN connections:

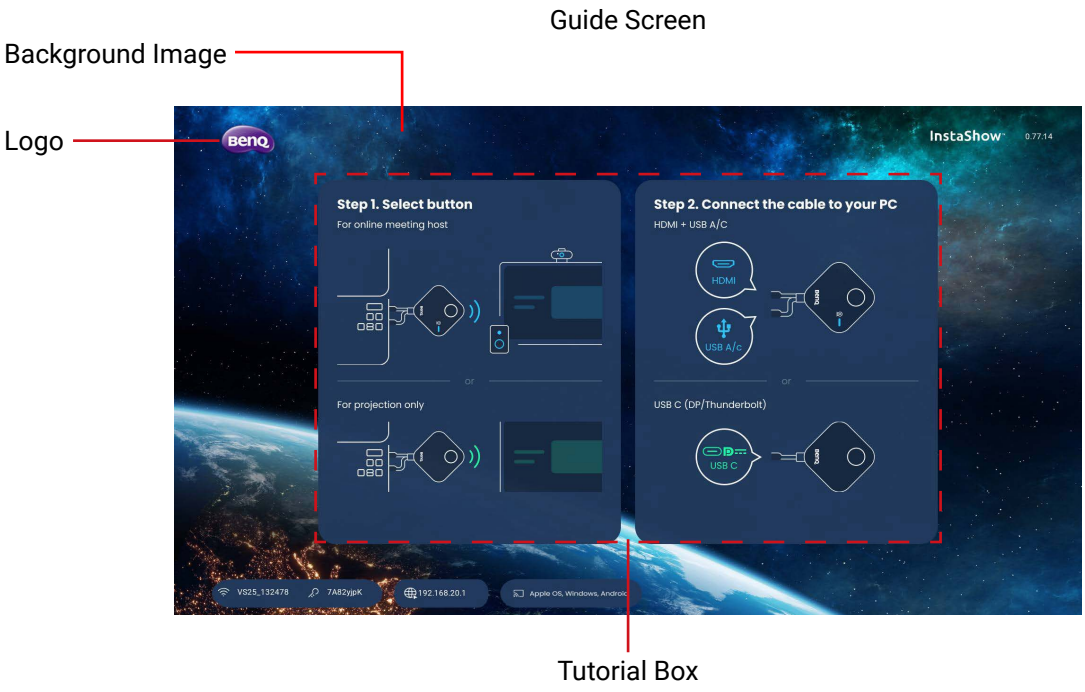
- **Connection Status**
- **WAN Connection Type** - Lists the way in which the Receiver obtains its IP address, sub-net mask and default gateway information. For more information on configuring the **WAN Connection Type**, see General on page 52.
- **WAN IP Address**
- **WAN MAC Address**

Wireless Network

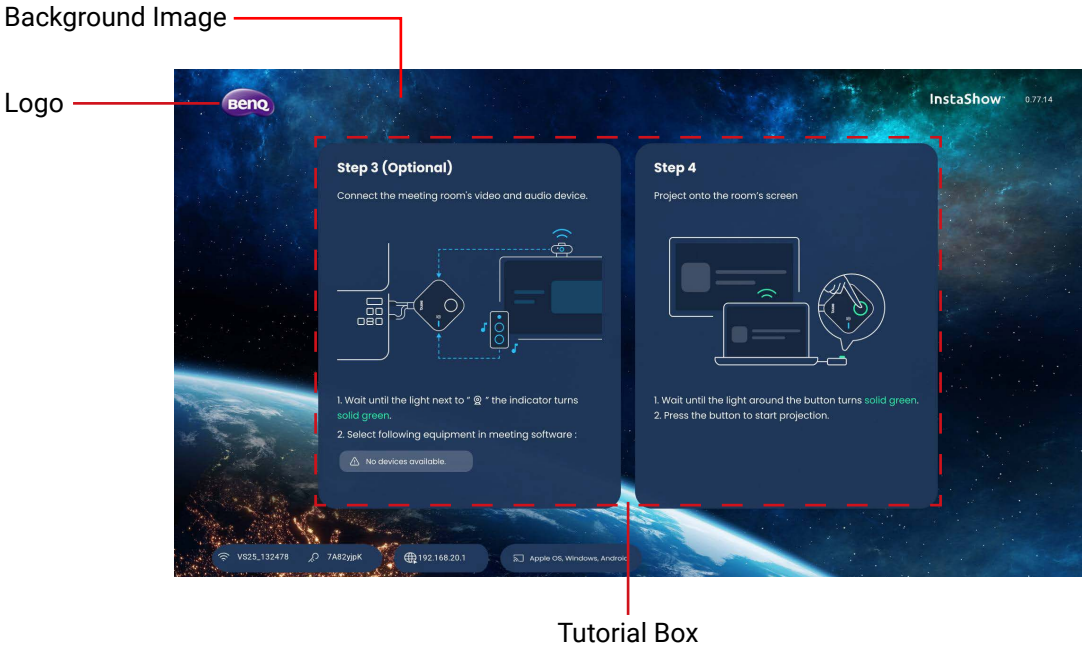
The **Wireless Network** sub-menu lists detailed information for the **2.4G** or **5G** Wi-Fi frequency of the Receiver including the SSIDs, Channels, and MAC addresses along with the Receiver's **Wi-Fi Area**. For more information on configuring these items, see Setting on page 53.

My Screen

The **My Screen** sub-menu allows you to customize the **Logo** (at the top-left corner) and background image for the **Guide Screen** and **Idle Screen** that is shown when the Receiver is connected to a projector or display.



Idle Screen



To customize the **Logo**, **Guide Screen** and/or **Idle Screen** background images**:**

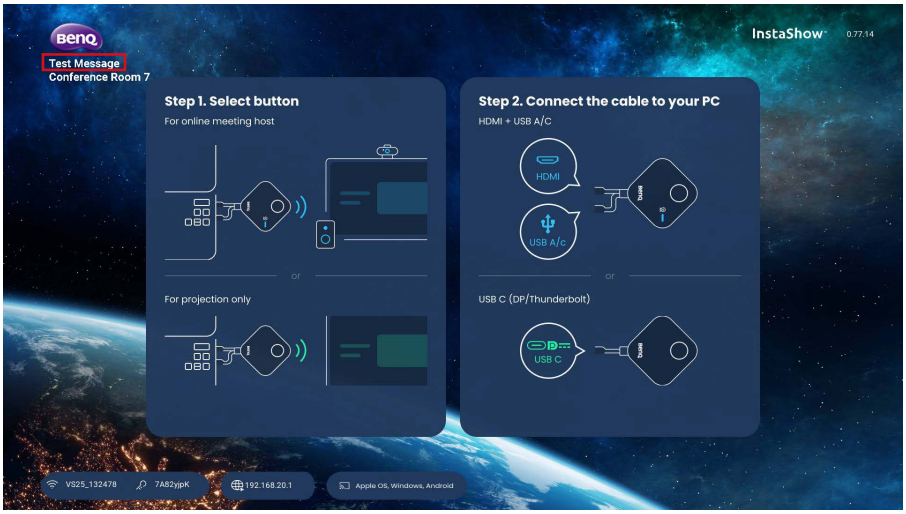
1. Click the drop-down menu for an item and then select **Customized**.
2. Click the **Select Image** button that appears.
3. Navigate to and select the image file on your local folder you want as either the Receivers **Logo**, **Guide Screen** or **Idle Screen**.
4. Click **Apply** to switch the image to the you selected.

- To revert to the default **Logo**, **Guide Screen** or **Idle Screen**, select **Original** in the respective screen's field.
- Use JPG or PNG image formats for the **Logo**, **Guide Screen** and/or **Idle Screen** images.
- To hide the tutorial boxes on either the **Guide Screen** and/or **Idle Screen**, check the **Tutorial Hide** box.

To completely remove the **Logo**, click the drop-down menu for an item and then select **Disable**.

Screen Message

The **Screen Message** sub-menu allows you to add a message at the top of the Guide/Idle screens directly beneath the logo.

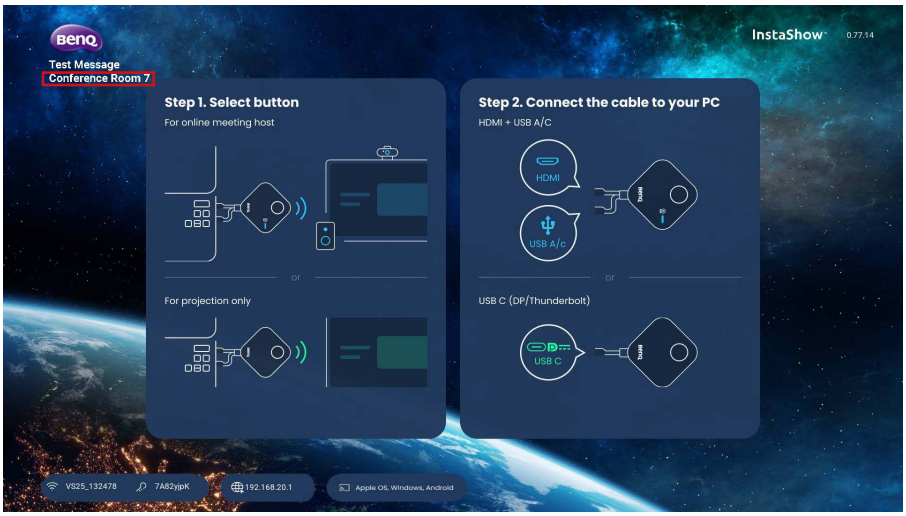


The character limit for the **Screen Message** is 50 alphanumeric or Chinese characters.

To add a screen message enter the text you want shown on the screens in the empty field and then press **Apply** to save your message.

Room Name

The **Room Name** sub-menu allows you to add a name for the room/Receiver at the top of the Guide/Idle screens beneath the screen message field.

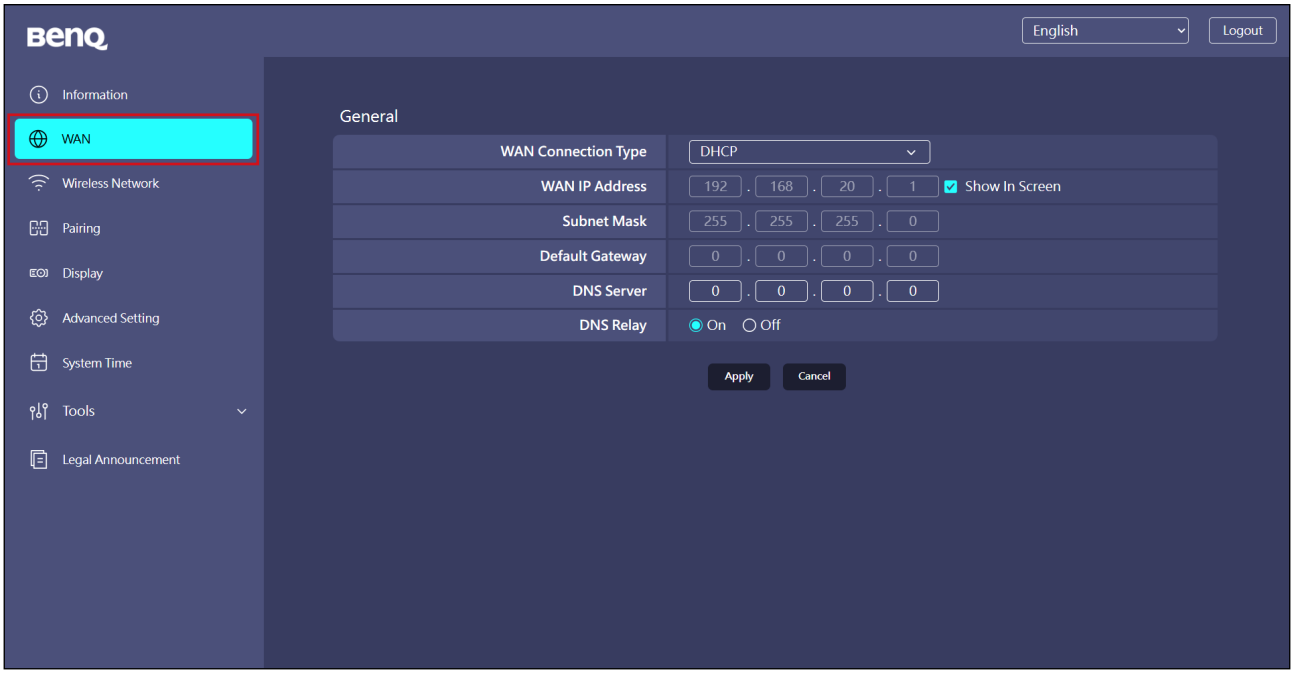


The character limit for the **Room Name** is 50 alphanumeric or Chinese characters.

To add a room name enter the text you want shown on the screens in the empty field and then press **Apply** to save the name.

WAN

Click **WAN** and you can configure the settings for the Receiver's wired connection in the **General** sub-menu.



General

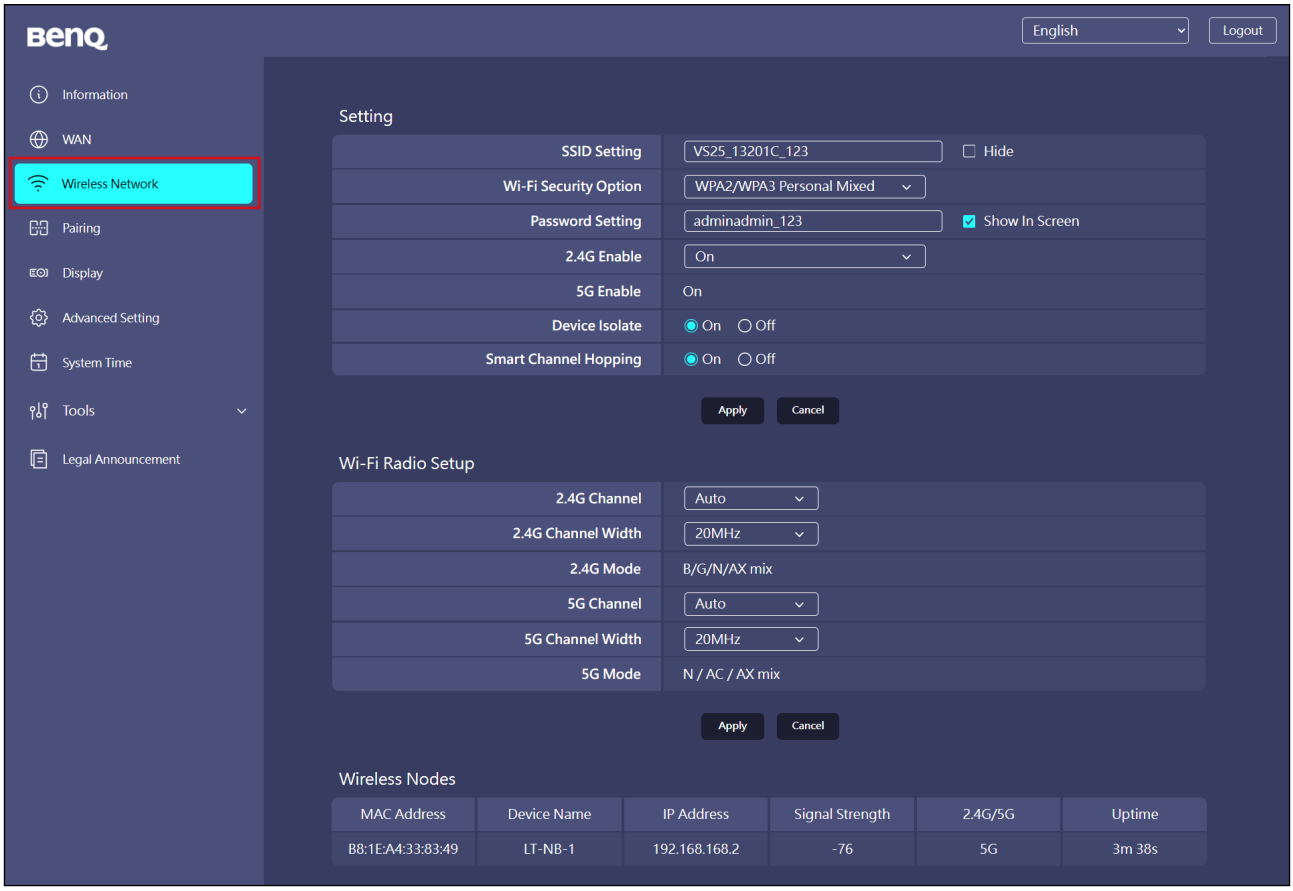
The **General** sub-menu includes the following configurable settings for the Receiver's connection to a network access point via the **WAN** port:

- **WAN Connection Type** - Select one of the following options to configure how the Receiver obtains the connection settings for its **WAN** connection, including IP address, subnet mask, and default gateway:
  - **DHCP** - This option allows the Receiver to automatically acquire its configuration settings from the DHCP server of your network
  - **Static IP** - This option allows you to manually assign an IP address for the server.
  - **Repeater** - This option allows you to connect the Receiver to another Wi-Fi access point. See Wi-Fi connection on page 28 for more information.
- **WAN IP Address** - When **WAN Connection Type** is set to **DHCP** this field will list the Receiver's IP address, when **Static IP** is selected enter the IP address you want to assign to the Receiver.
- **Subnet Mask** - When **WAN Connection Type** is set to **DHCP** this field will list the Receiver's subnet mask, when **Static IP** is selected enter the subnet mask you want to assign to the Receiver.
- **Default Gateway** - When **WAN Connection Type** is set to **DHCP** this field will list the Receiver's default gateway, when **Static IP** is selected enter the default gateway you want to assign to the Receiver.
- **DNS Server** - Enter the Domain Name System (DNS) server for the Receiver in this field.
- **DNS Relay** - Select whether to enable or disable DNS relay in this field.

Press **Apply** to save any changes to the **General** fields.

Wireless Network

Click **Wireless Network** and you will see the **Setting**, **Wi-Fi Radio Setup**, and **Wireless Nodes Status** sub-menus for the Receiver's wireless connection.



Setting

The **Setting** sub-menu includes the following basic settings for the Receiver's Wi-Fi signal:

- **SSID Setting** - This field allows you to customize the SSID for the Receiver. Check **Hide** to make the Receiver's Wi-Fi signal undiscoverable by users.
- **Wi-Fi Security Option** - This field lists the Wi-Fi security for the Receiver's Wi-Fi signal.
- **Password Setting** - This field allows you to customize the password for the Receiver's SSID.

> Check the **Show in screen** box if you want the password shown on the Guide or Idle screen.

- **2.4G Enable** - This option allows you to enable or disable a 2.4G frequency for the Receiver's Wi-Fi signal. A 2.4G Wi-Fi signal is a signal that features a larger coverage range but slower data speeds and is more commonly used by older mobile devices..
- **5G Enable** - This option cannot be disabled as all the connections between the Receiver and Buttons will include a 5G Wi-Fi signal.

> Certain mobile devices are unable to access 5G Wi-Fi signals due to hardware limitations. If your mobile device is unable to connect to the Receiver via Wi-Fi, select **ON** in the **2.4G Enable** field. Both **2.4G Enable** and **5G Enable** can be enabled at the same time.

- **Device Isolate** - This option when enabled allows you to block communication between

the devices connected to the Receiver's network, including Buttons, PCs, and mobile devices as a security precaution.

- **Smart Channel Hopping** - This feature allows the Receiver to detect in real time when the signal between it and the Button is dealing with interference that results in a lower frame rate for the video transmission, and then automatically switch to a different channel until the frame rate improves. This feature is enabled by default, to disable it select **OFF**.

> In settings where there is constant or unavoidable signal interference, it is suggested that you disable **Smart Channel Hopping** in order to prevent latency due to continual channel hopping.

Press **Apply** to save any change to the **Setting** fields.

Wi-Fi Radio Setup

The **Wi-Fi Radio Setup** sub-menu includes the following additional settings for the Receiver's Wi-Fi signal:

- **2.4G Channel** - This field allows you to choose the wireless channel for its 2.4G signal.
- **2.4G Channel Width -** This field allows you to choose either a **20MHz** or **40MHz** width for the 2.4G channel.
- **2.4G Mode -** This field lists the Wi-Fi standard for the 2.4G signal.
- **5G Channel** - This field allows you to choose the wireless channel for its 5G signal.
- **5G Channel Width -** This field allows you to choose either a **20MHz, 40MHz,** or **80MHz**. width for the 5G channel.
- **5G Mode -** This field lists the Wi-Fi standard for the 5G signal.

> - The supported wireless channels listed vary according to wireless regulations of the country/region which is listed in the **Wi-Fi Area** field.
> - The Wi-Fi standard for the Wi-Fi signal is set and cannot be configured.

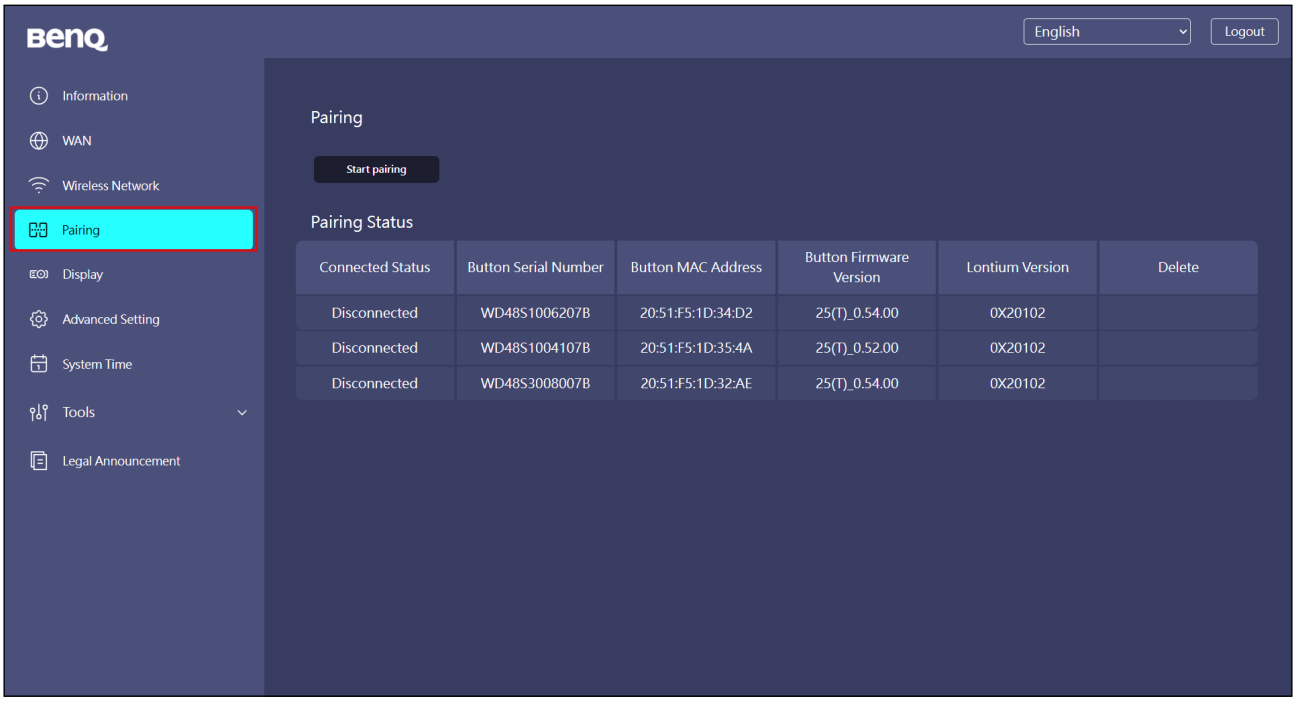
Press **Apply** to save any change to the **Wi-Fi Radio Setup** fields.

Wireless Nodes Status

The **Wireless Nodes Status** sub-menu lists all the devices connected to the Receiver via Wi-Fi and indicates their **MAC Address**, **Device Name**, **IP Address**, **Signal Strength**, Wi-Fi channel used (**2.4G**/**5G**), and connection time (**Uptime**).

Pairing

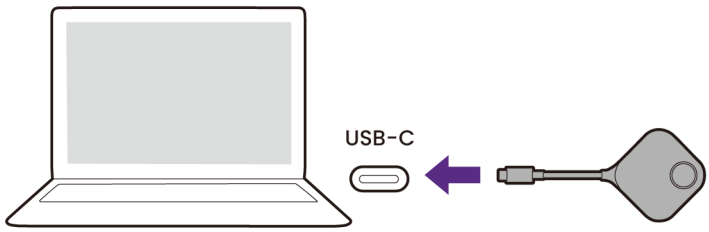
Click **Pairing** and you will see **Pairing** and **Pairing Status** sub-menus.



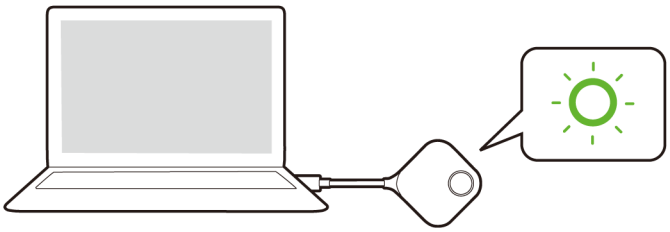
Pairing

The **Pairing** sub-menu can be used when the Receiver is attached to the ceiling as it is not easy to press the **PAIRING** key on the Receiver when the device is too high. To pair a Button and Receiver via the web management interface:

1. Connect the Button's USB connector to the corresponding ports of a laptop.

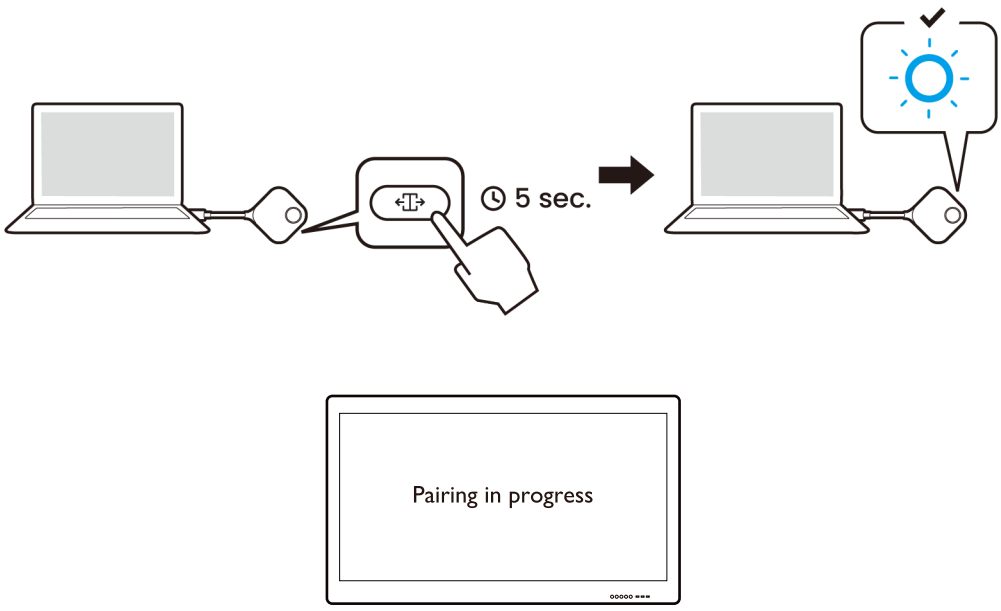


2. When the Button is successfully connected to the laptop, the LED indicator of the Button will blink green.

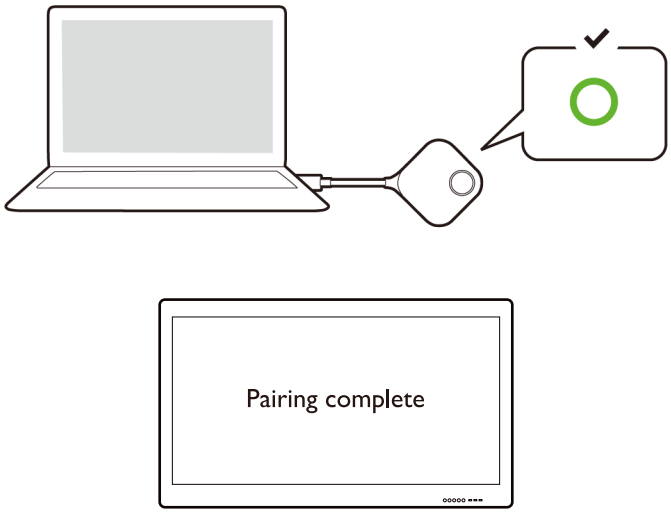


3. Make sure the Receiver is properly connected to a power source.
4. Press **Start pairing** to pair the Receiver to the Button via the web management interface, you will have two minutes to pair with the Button.

5. Press the split screen key on the side of the Button for five seconds. The LED indicator of the Button will blink blue for about 30 seconds. The pairing process is ongoing. A "**Pairing in progress**" message will be shown on the screen.



6. The LED indicator of the Button will turn static green when the Receiver and Button are successfully paired.



- Images are for reference only. Each product features a different serial number.
- The maximum number of Buttons you can pair with one Receiver is 64.

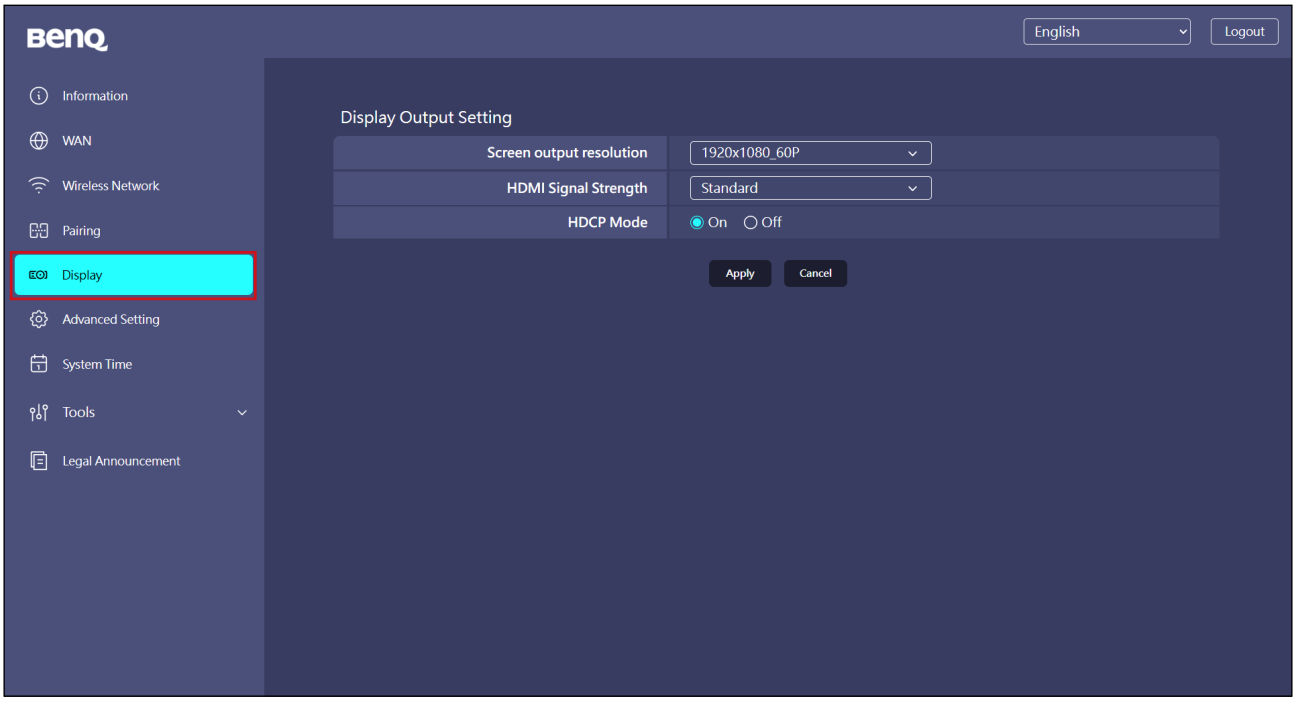
7. You may press **Stop pairing** anytime to stop the pairing process.

Pairing Status

The **Pairing Status** sub-menu lists all the Buttons that are already paired to the Receiver.

Display

Click **Display** and you will see the **Display Output Setting** sub-menu.



Display Output Setting

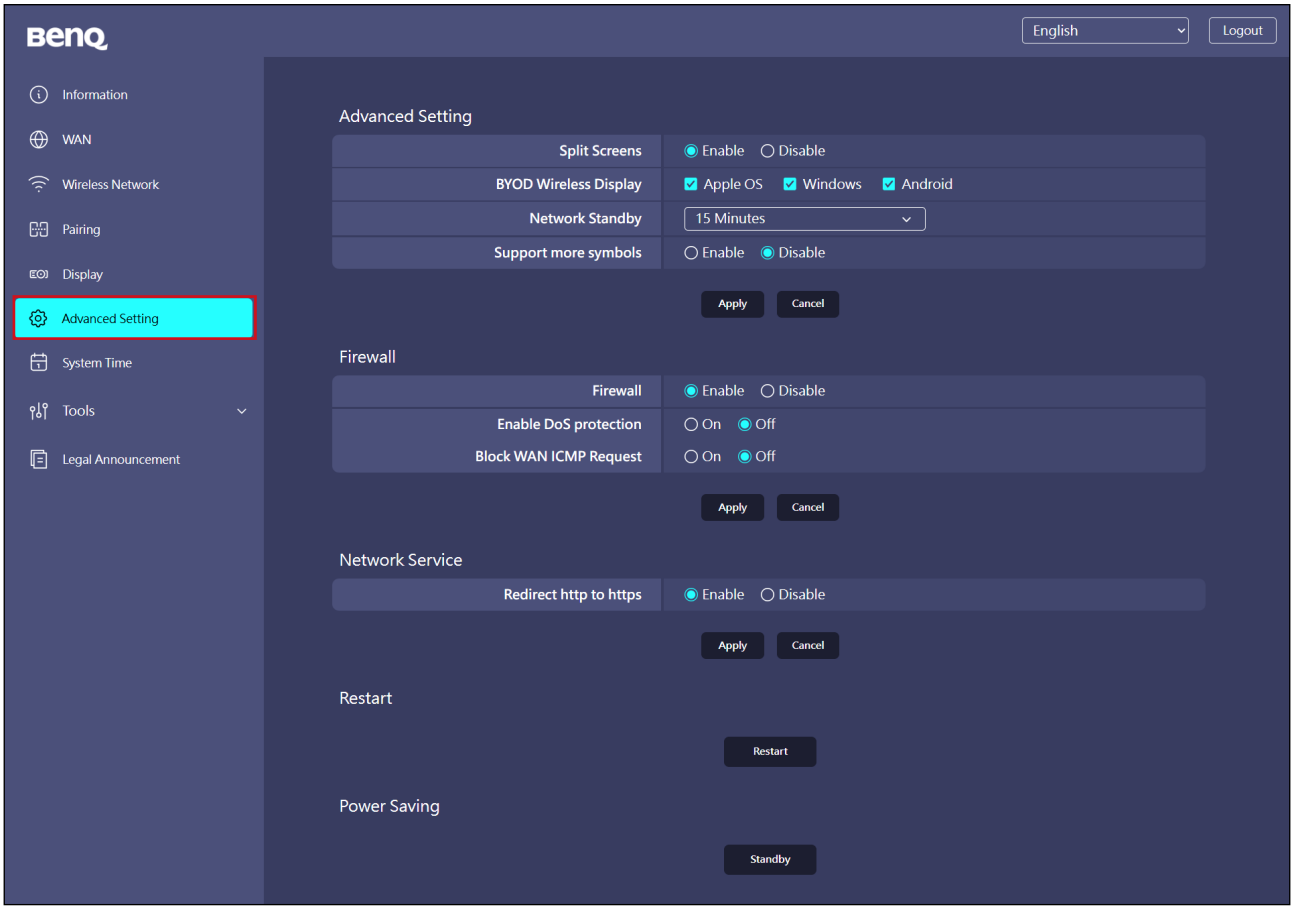
The **Display Output Setting** sub-menu includes the following settings for the video output by the Receiver to the display connected to its **HDMI** port:

- **Screen Output Resolution -** This settings configures the output resolution for the video broadcast by the Receiver. When **Screen Output Resolution** is set to **Auto** the Receiver will select the output resolution based on the connected display's native specifications, or you can select an output resolution manually.
- **HDMI Signal Strength** - This setting allows you to boost the strength of the signal of the HDMI connection for connections between the Receiver and the display/projector that span a longer physical distance. If the HDMI connection is over 10 meters and you encounter issues with the signal strength (i.e., distorted images) select **Strong** to see if the boosted signal strength resolves the issue.
- **HDCP Mode** - This setting allows you to configure whether or not High-bandwidth Digital Content Protection (HDCP) is enabled for the content output by the Receiver. When set to **On** HDCP will always be enabled by the Receiver for the content that it outputs. When set to **Off** HDCP will be disabled by the Receiver for the content that it outputs.

Press **Apply** to save any change to the **Display Output Setting** fields.

Advance Setting

Click **Advance Setting** and you will see the **Advance Setting**, **Firewall**, **Network Service**, **Restart,** and **Power Saving** sub-menus.



Advance Setting

The **Advance Setting** sub-menu includes the following advanced setting for the Receiver:

- **Split Screens** - This setting allows you to **Enable** or **Disable** split screen capabilities during presentations. See Split screen presentations on page 34 for more information.
- **BYOD Wireless Display** - This setting allows you to **Enable** or **Disable** presenting by mobile devices (BYOD) based on the type of mobile device. See Presenting with mobile devices (BYOD) on page 38 for more information.
- **Network Standby -** This setting allows you to set the amount of idle time before the Receiver enters network standby mode. Once in network standby mode the user will have to re-enter the login and password for the web management menu to continue.
- **Support more symbols** - This setting allows you to enable/disable special characters for the Receiver's Wi-Fi password. When disabled the password can only feature uppercase and lowercase alphanumeric characters, periods (.), hyphens (-), at symbols (@), and underscores (_).

Press **Apply** to save any change to the **Advance Setting** fields.

Firewall

The **Firewall** sub-menu includes the following settings for the Receiver's firewall:

- **Firewall** - This setting allows you to enable the Receiver's built-in firewall.
- **Enable DoS protection** - This settings allows you to enable the Receiver's built-in Denial of Service (DoS) protections. DoS attacks are attacks that intend to deny users from using a network by flooding the network with artificial traffic that slows down the network to a degree to which it is unusable.
- **Block WAN ICMP Request** - This setting allows you to block Internet Control Message Protocol (ICMP) requests, which is a type of network communication that is commonly used in DoS-type of attacks.

Press **Apply** to save any change to the **Firewall** fields.

Network Service

The **Network Service** sub-menu allows you to enable **Redirect http to https** which adds SSL security to the connection between the device accessing the web management menu and the Receiver. When enabled the URL used to access the menu requires an "HTTPS://" prefix.

Press **Apply** to save any change to the **Network Service** fields.

Restart

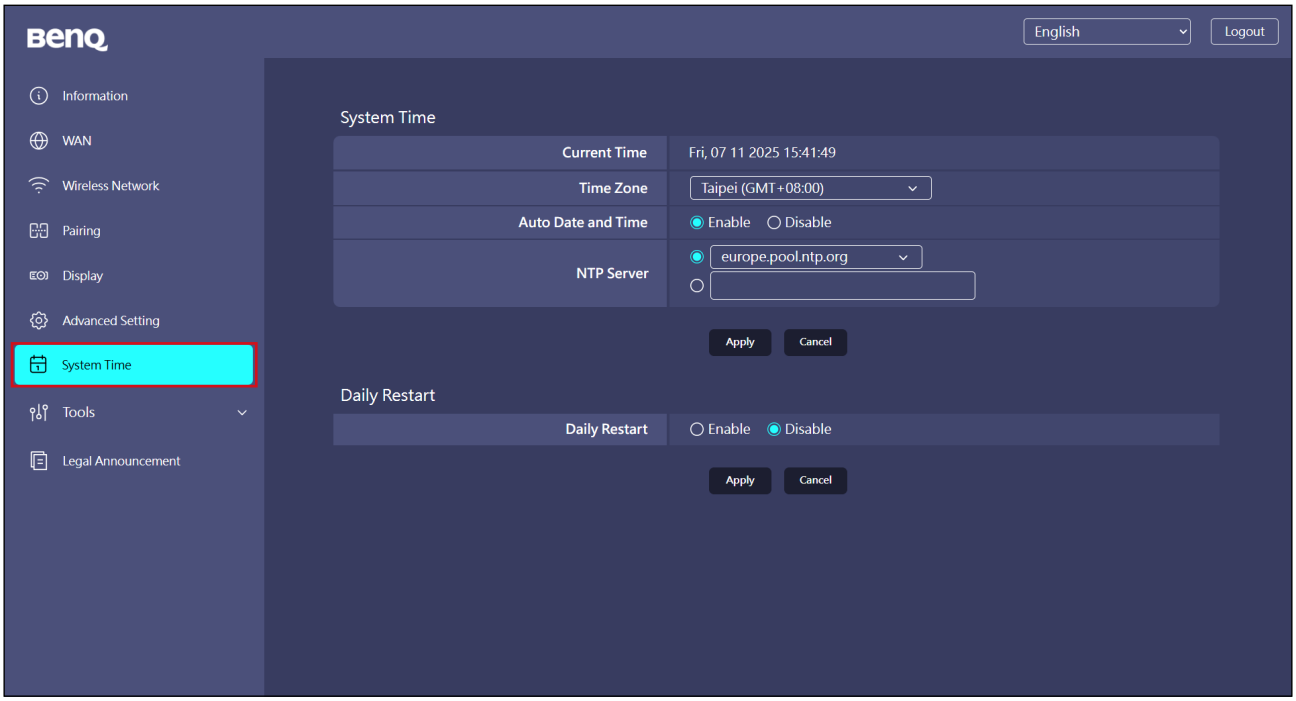
Click the **Restart** button to restart the Receiver.

Power Saving

Click the button to place the Receiver's in either **Standby** mode or to **Wakeup** the Receiver.

System Time

Click **System Time** and you will see the **System Time** and **Daily Restart** sub-menus.



System Time

The **System Time** sub-menu includes the following time settings for the Receiver:

- **Current Time -** This field displays the current date and time.
- **Time Zone** - Select which time zone you are in.
- **Auto Date and Time** - Select whether you want the Receiver to automatically retrieve the date and time from the Internet in this field. When set to **Disable**, you can manually set the date and time in the **Set Date** and **Set Time** fields. The time settings will be saved to the Receiver's internal memory accordingly.

  Before manually setting the Date and Time ensure that the coin-cell battery provided with your InstaShow is installed in the Receiver.

- **NTP Server** - When **Auto Date and Time** is set to **Enable** this field allows you to select which server to retrieve the date and time from or enter a server manually.

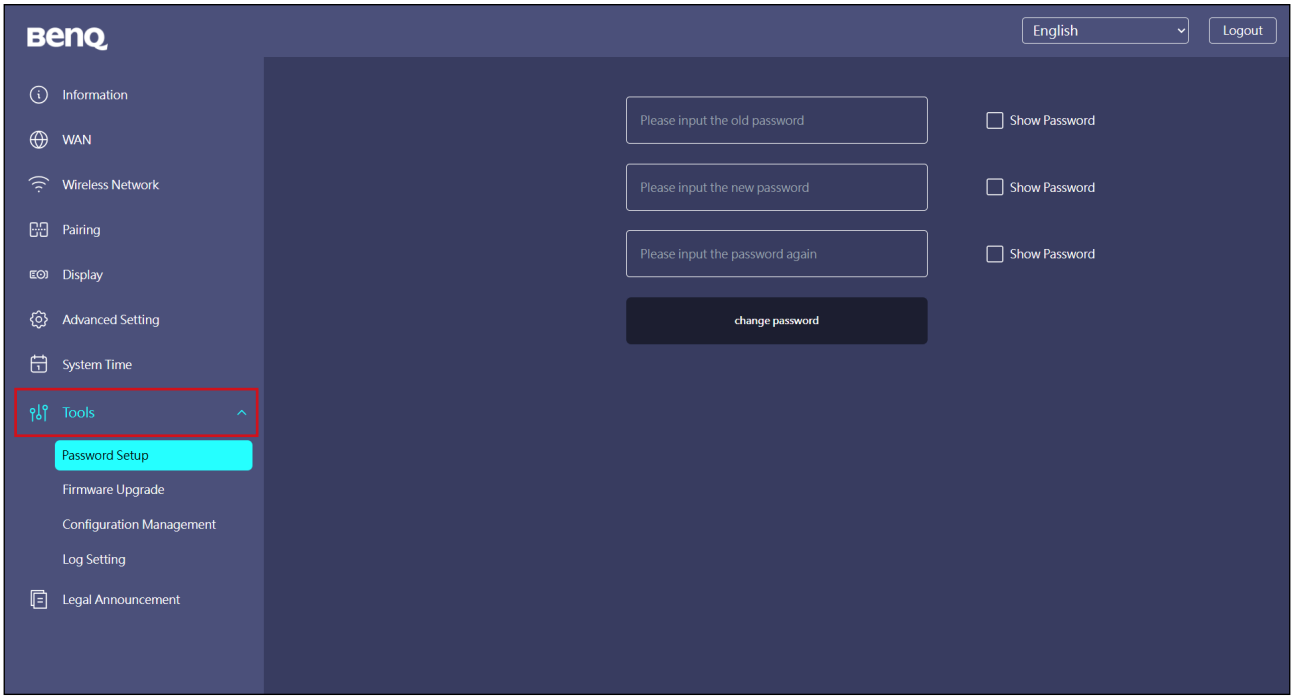
Press **Apply** to save any change to the **System Time** fields.

Daily Restart

The **Daily Restart** sub-menu allows you to set a time of the day in which the Receiver automatically restarts. To set the restart time, select **Enable** and then enter the time in the **Restart Timer** field.

Tools

Click **Tools** to see the **Password Setup**, **Firmware Upgrade**, **Configuration Management**, and **Log Setting** sub-menus.

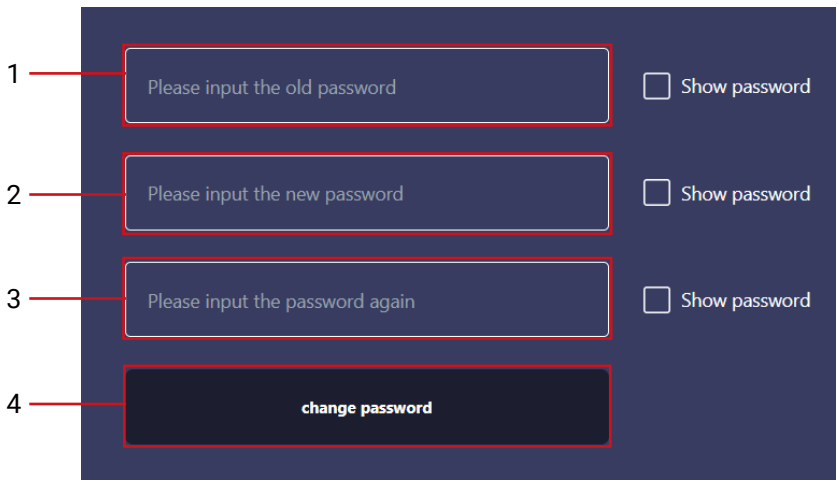


Password Setup

The **Password Setup** allows you to change the **Password** for the web management menu. To change the password:

1. Enter your old password.
2. Enter the new password.
3. Enter the new password again to confirm your new password.
4. Press **change password** to save the password.

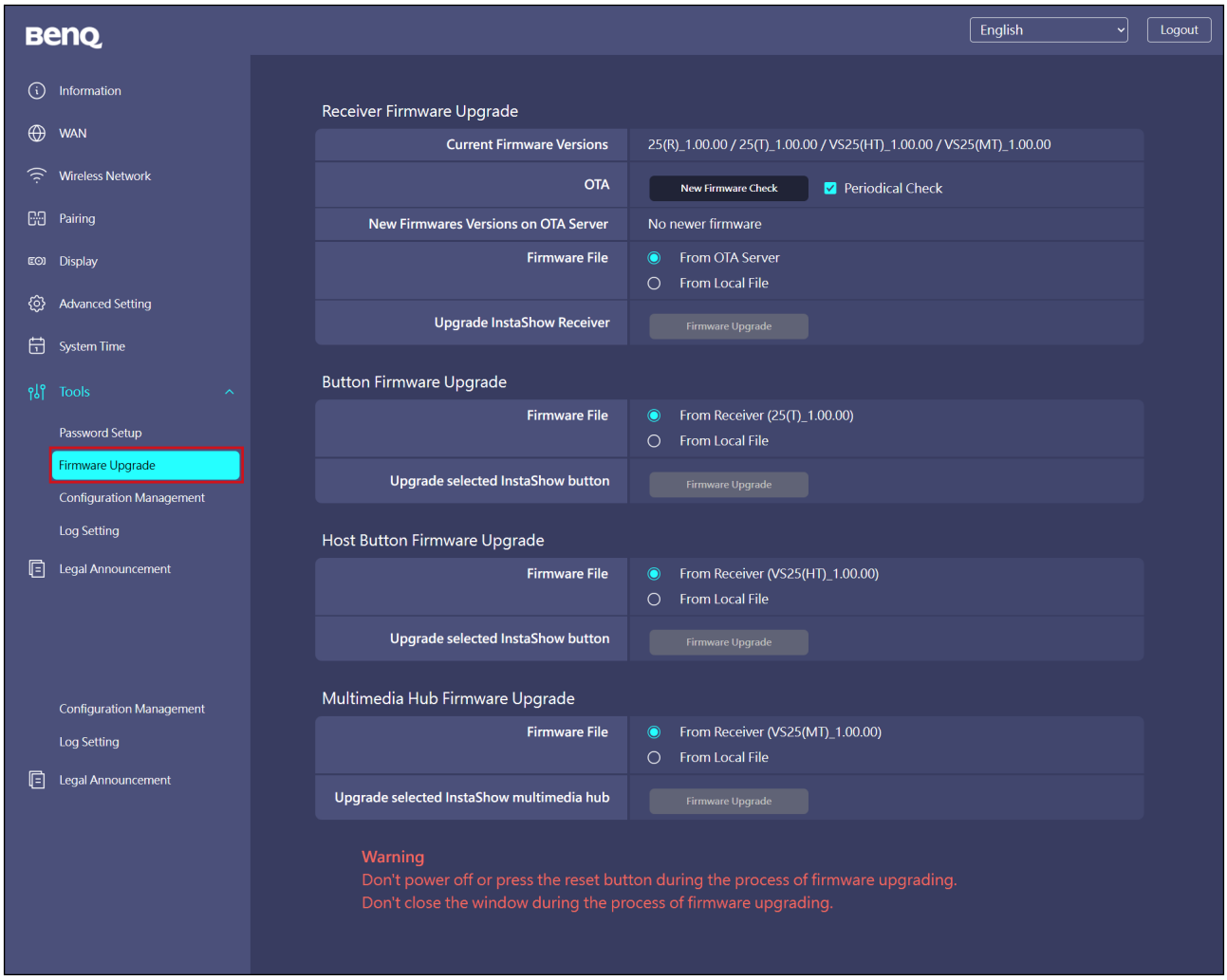
Check the **Show password** next to any field to make the typed characters in that field visible.



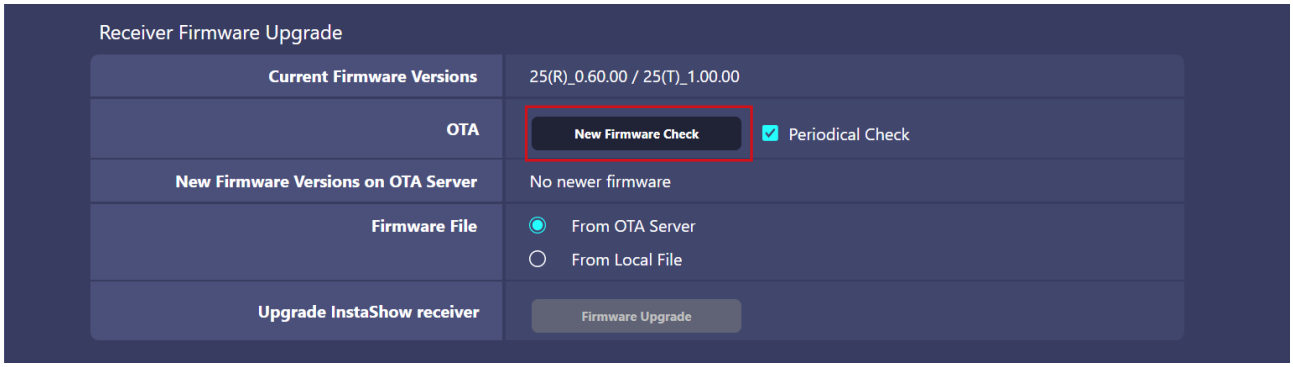
Firmware Upgrade

The **Firmware Upgrade** sub-menu allows you to check for and execute firmware upgrades for the Receiver (via the **Receiver Firmware Upgrade** sub-menu), Button (via the **Button Firmware Upgrade** sub-menu), Host Button (via the **Host Button Firmware Upgrade** sub-menu), and Multimedia Hub (via the **Multimedia Hub Firmware Upgrade** sub-menu)..

Before checking for a new firmware upgrade for your Receiver or Button, first ensure that the Receiver is connected to a router with access to the Internet. For upgrades to the Button's firmware also ensure that the Button is paired and connected to the Receiver.



To check if firmware upgrades are available for the Receiver and/or Button click the **New Firmware Check** button in the **Receiver Firmware Upgrade** sub-menu for the device.



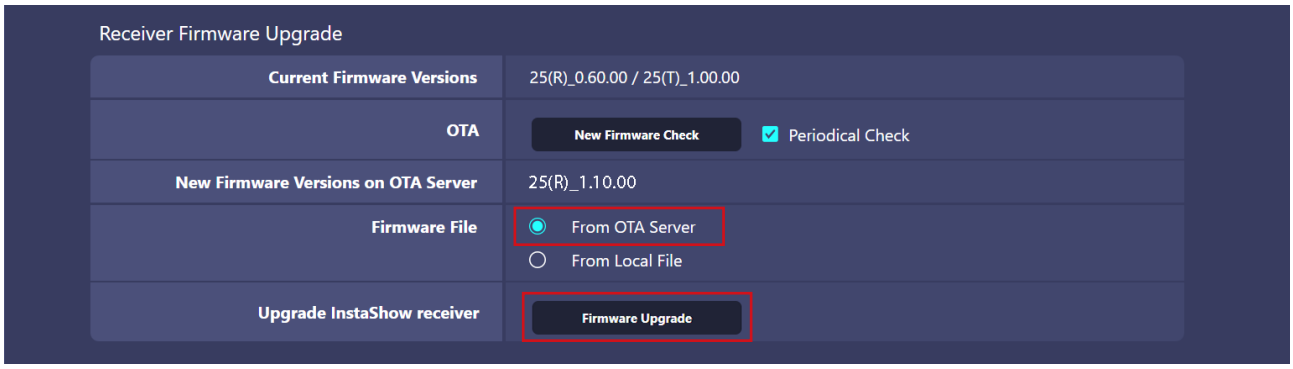
- To have the Receiver or Button periodically check for firmware upgrades check the **Periodical Check** box in the **Receiver Firmware Upgrade** sub-menu for the device.
- Periodic checks for upgrades can only occur when the Receiver is connected via the WAN port to a router with access to the Internet.

Receiver Firmware Upgrade

If a new firmware upgrade is available the new firmware version will be listed in the **New Firmwares Versions on OTA Server** field.

To perform an OTA upgrade of the Receiver's firmware:

1. Select **From OTA Server** in the **Firmware File** field.
2. Click the **Firmware Upgrade** button in the **Upgrade InstaShow Receiver** field.



To perform an OTA upgrade ensure that the Receiver is connected to a router with access to the Internet.

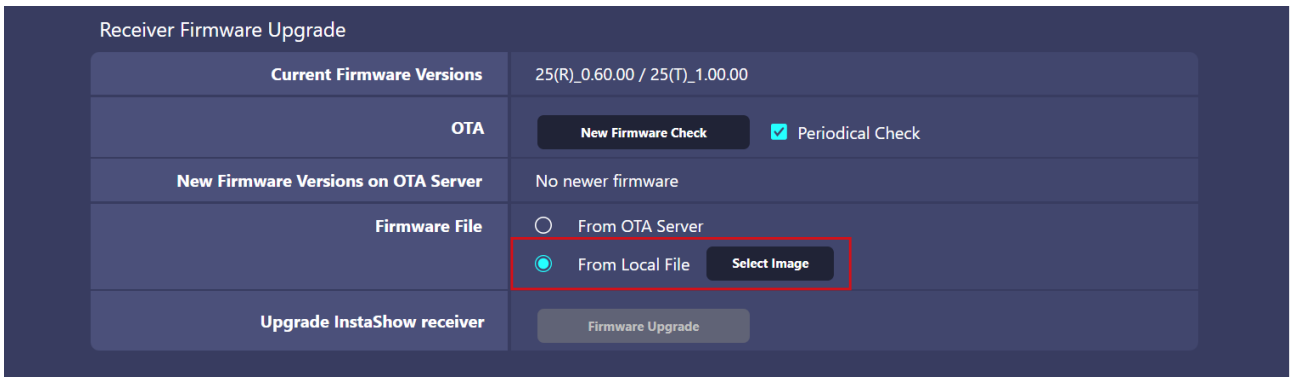
When performing any type of upgrade, DO NOT do any of the following:
- Power off or press the reset button on the Receiver or Button.
- Close the browser window of the web management interface.

Failure to follow these warnings will result in firmware upgrade failure and subsequent product failure.

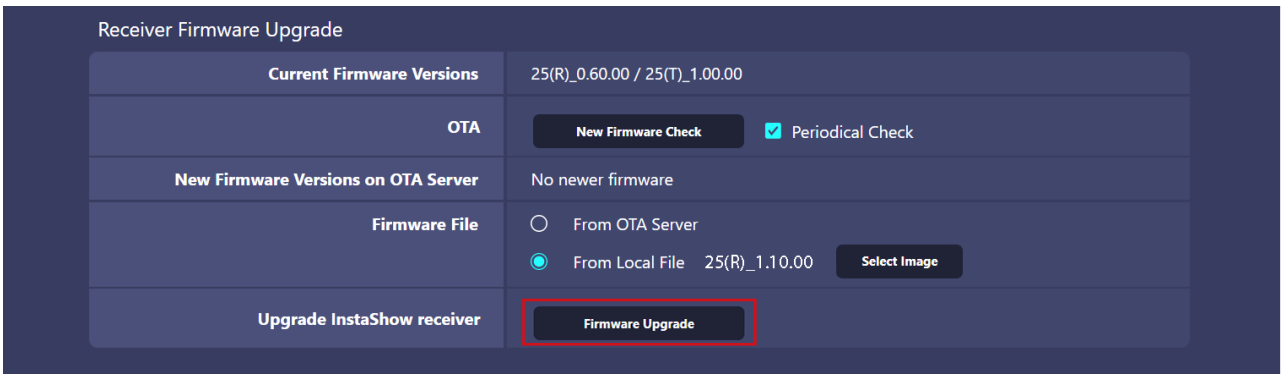
To perform a direct upgrade from an upgrade file located on your local computer follow the steps below:

Before executing a direct firmware upgrade, please contact your BenQ regional office for access to the upgrade files.

1. Select **From Local File** and then click the **Select File** button in the **Firmware File** field.



2. Navigate to and select the firmware upgrade file.
3. Click the **Firmware Upgrade** button in the **Upgrade InstaShow Receiver** field.



When performing any type of upgrade DO NOT do any of the following:
- Power off or press the reset button on the Receiver or Button.
- Close the browser window of the web management interface.

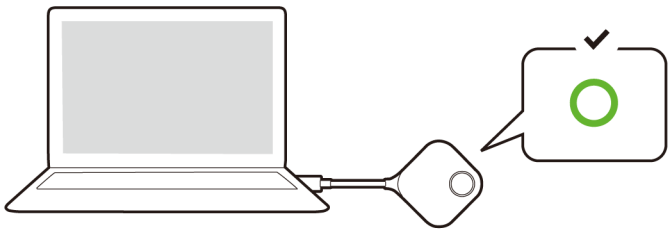
Failure to follow these warnings will result in firmware upgrade failure and subsequent product failure.

Button Firmware Upgrade / Host Button Firmware Upgrade

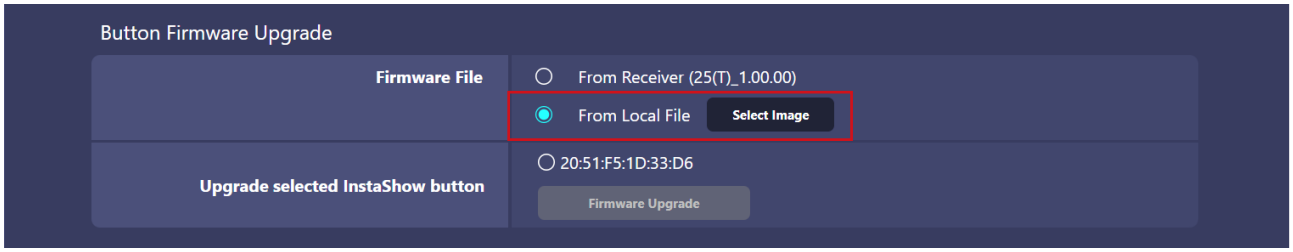
The following instructions can be applied to both Buttons and Host Buttons.

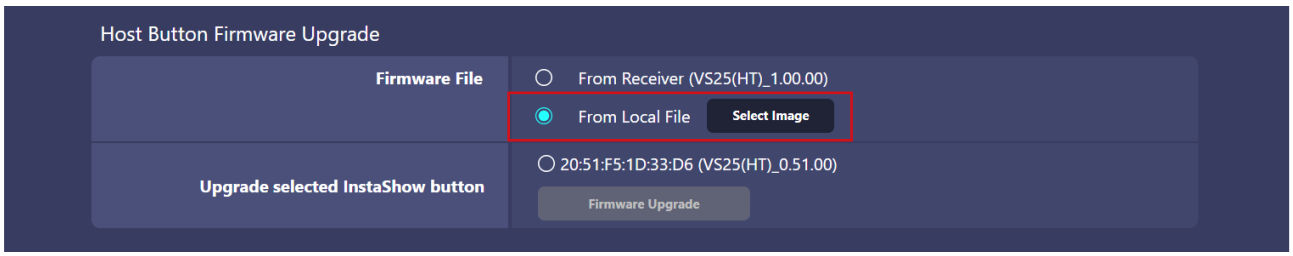
To upgrade the Button/Host Button's firmware using an upgrade file located on your local computer follow the steps below:

1. Connect the Button/Host Button you want to upgrade to the laptop running the web management interface and then wait for the Button's LED indicator to light up green.



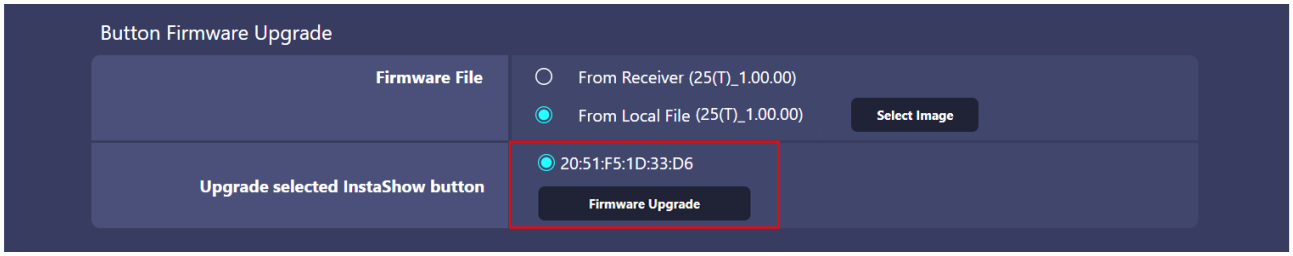
2. Select **From Local File** in the **Firmware File** field and then click the **Select Image** button.

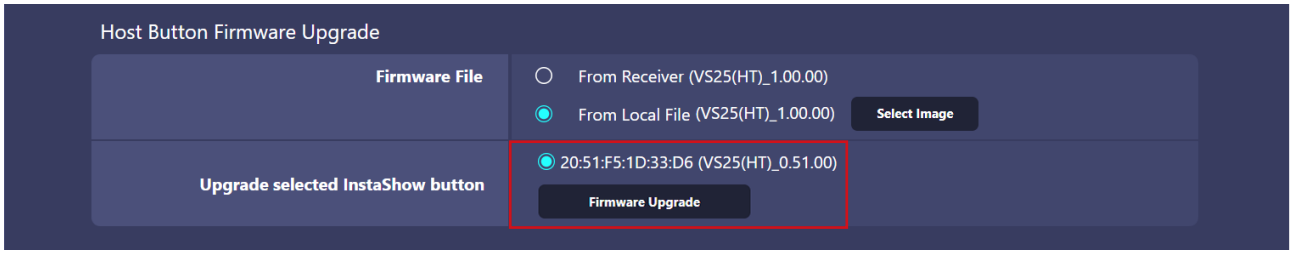




3. Navigate to and select the firmware upgrade file.

4. Select the Button you want to upgrade and then click the **Firmware Upgrade** button in the **Upgrade Selected InstaShow Button** field.



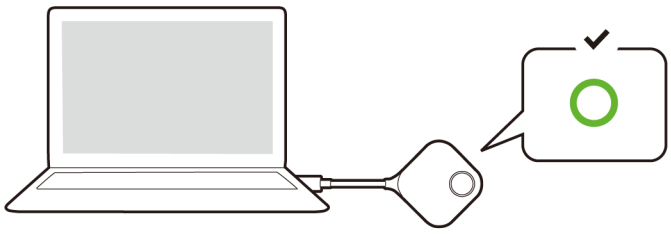


When performing any type of upgrade DO NOT do any of the following:
- Power off or press the reset button on the Receiver or Button.
- Close the browser window of the web management interface.

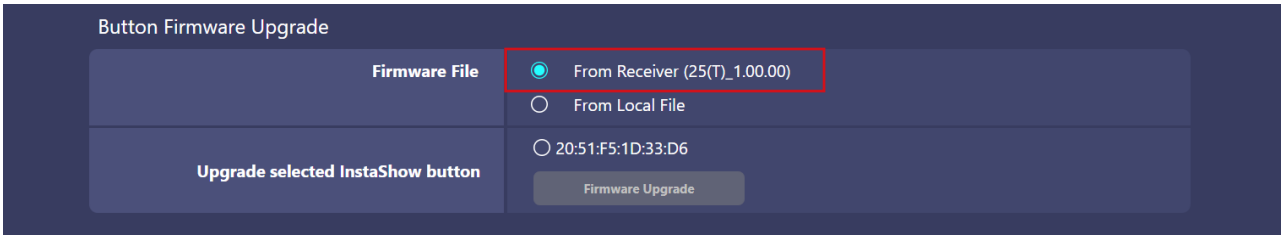
Failure to follow these warnings will result in firmware upgrade failure and subsequent product failure.

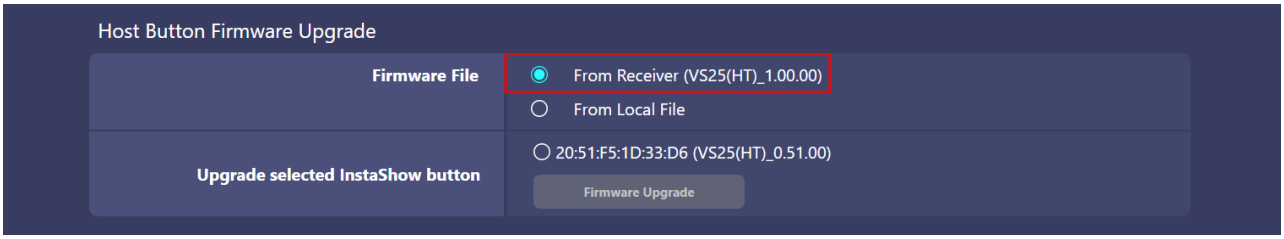
To upgrade the Button/Host Button's firmware directly from your Receiver via the connection between the Button and Receiver.

1. Connect the Button you want to upgrade to a laptop and then wait for the Button to link up with the Receiver and the LED indicator to light up green.

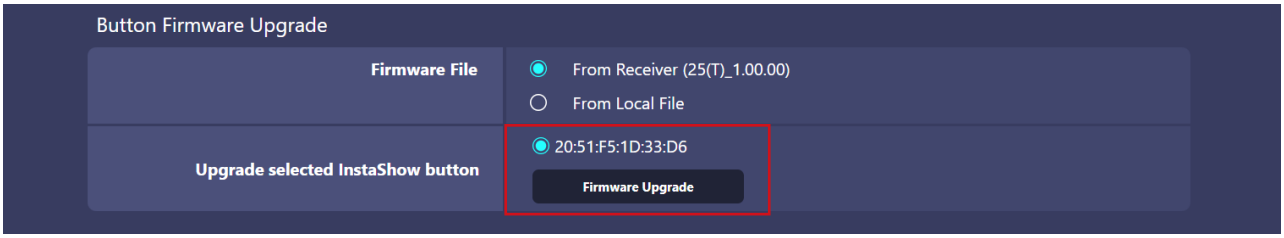


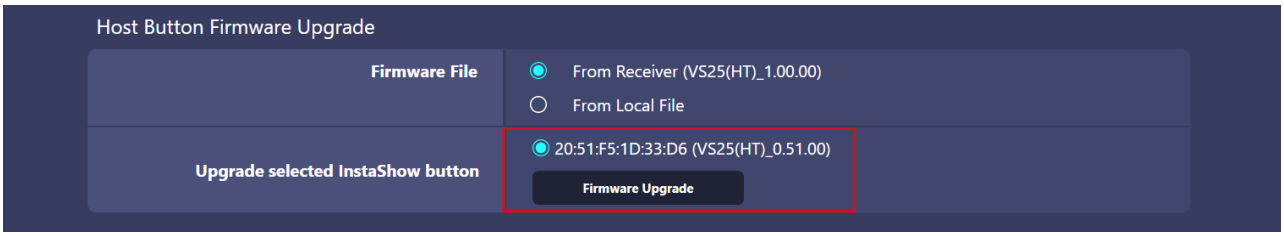
2. Select **From Receiver** in the **Firmware File** field.





3. Select the Button you want to upgrade and then click the **Firmware Upgrade** button in the **Upgrade Selected InstaShow Button** field.





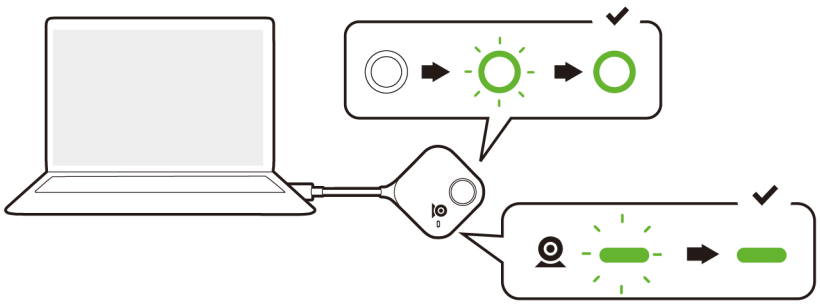
When performing any type of upgrade DO NOT do any of the following:
- Power off or press the reset button on the Receiver or Button.
- Close the browser window of the web management interface.
- The button of Firmware Upgrade becomes gray out when the version in Button is newer than the version in Receiver.

Failure to follow these warnings will result in firmware upgrade failure and subsequent product failure.

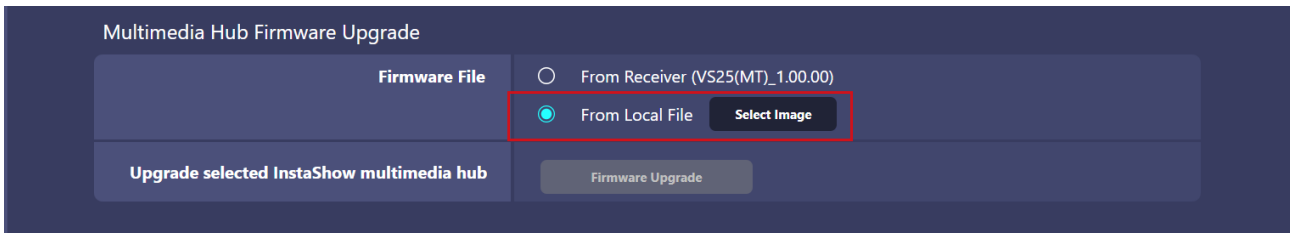
Multimedia Hub Firmware Upgrade

To upgrade the Multimedia Hub's firmware using an upgrade file located on your local computer follow the steps below:

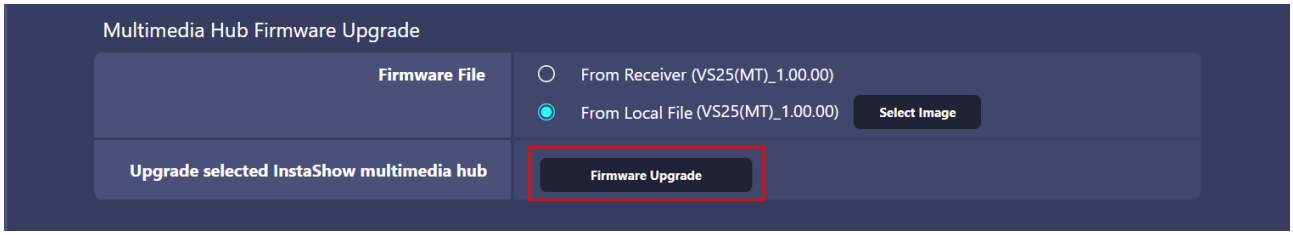
1. Connect the Multimedia Hub to a power source. See Connecting the Multimedia Hub on page 29 for more information.
2. Connect the Host Button to the laptop running the web management interface and then wait for both the Button LED indicator and the Multimedia LED indicator to light up green.



3. Select **From Local File** in the **Firmware File** field and then click the **Select Image** button.



4. Navigate to and select the firmware upgrade file.
5. Click the **Firmware Upgrade** button in the **Upgrade Selected Multimedia Hub** field.

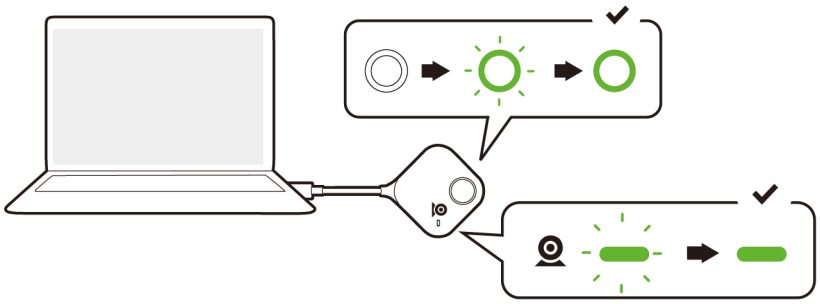


When performing any type of upgrade DO NOT do any of the following:
- Power off or press the reset button on the Receiver, Host Button, or Multimedia Hub.
- Close the browser window of the web management interface.

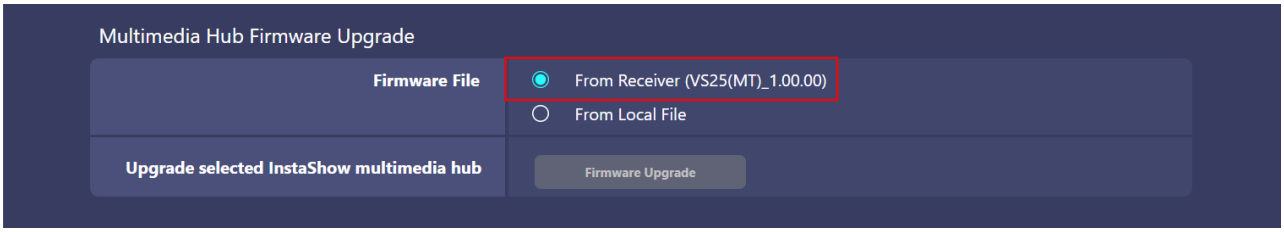
Failure to follow these warnings will result in firmware upgrade failure and subsequent product failure.

To upgrade the Multimedia Hub's firmware directly from your Receiver via the connection between the Multimedia Hub and Receiver.

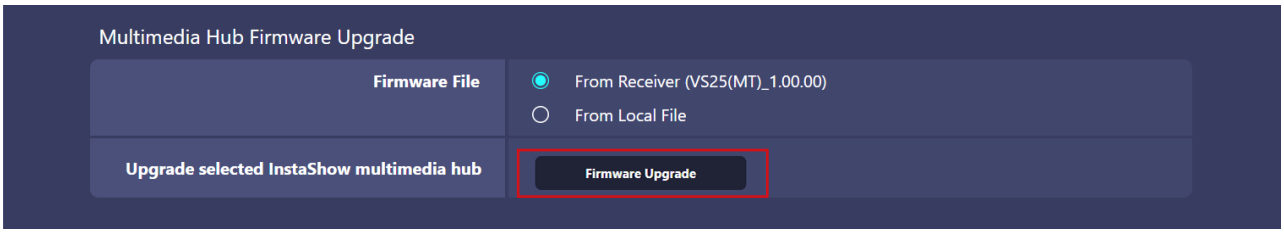
1. Ensure the Receiver has upgraded to the latest firmware.
2. Connect the Multimedia Hub to a power source. See Connecting the Multimedia Hub on page 29 for more information.
3. Connect the Host Button to the laptop running the web management interface and then wait for both the Button LED indicator and the Multimedia LED indicator to light up green.



4. Select **From Receiver** in the **Firmware File** field.



5. Click the **Firmware Upgrade** button in the **Upgrade Selected Multimedia Hub** field.



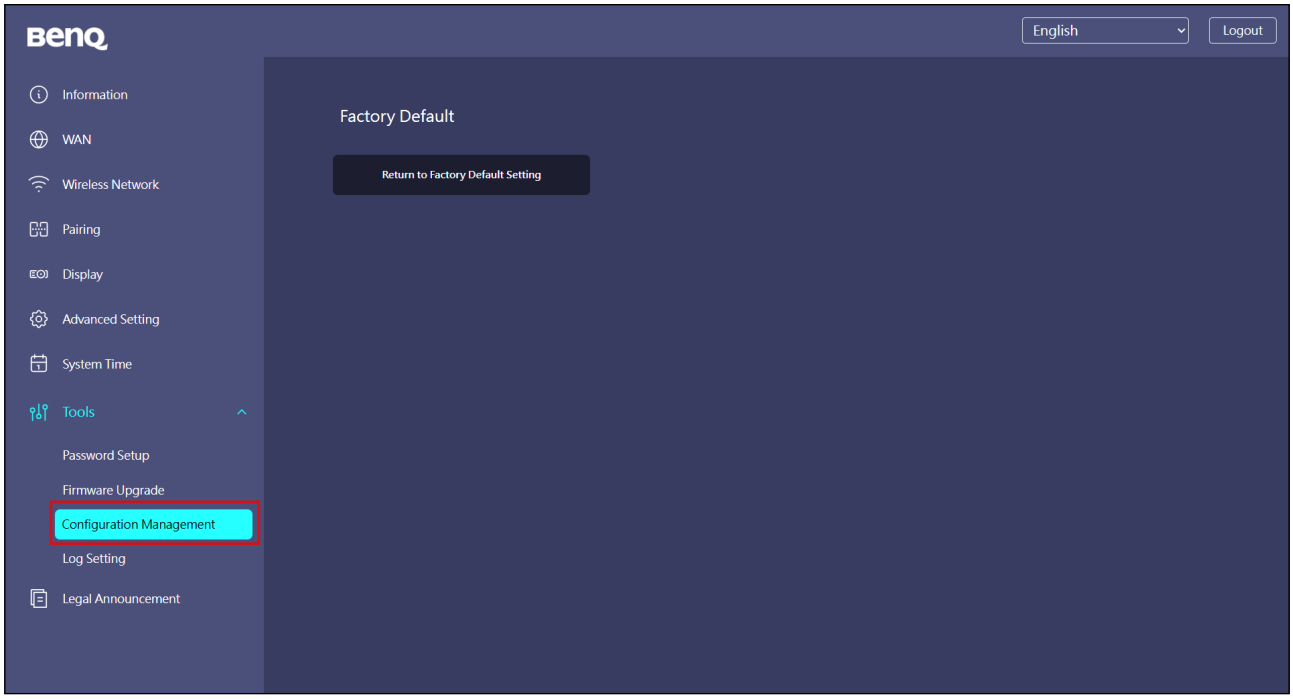
When performing any type of upgrade DO NOT do any of the following:

- Power off or press the reset button on the Receiver, Host Button, or Multimedia Hub.
- Close the browser window of the web management interface.
- The button of Firmware Upgrade becomes grayed out when the version in Button is newer than the version in Receiver.

Failure to follow these warnings will result in firmware upgrade failure and subsequent product failure.

Configuration Management

The **Configuration Management** menu allows you to restore your Receiver's settings to its factory defaults via the **Factory Default** sub-menu.



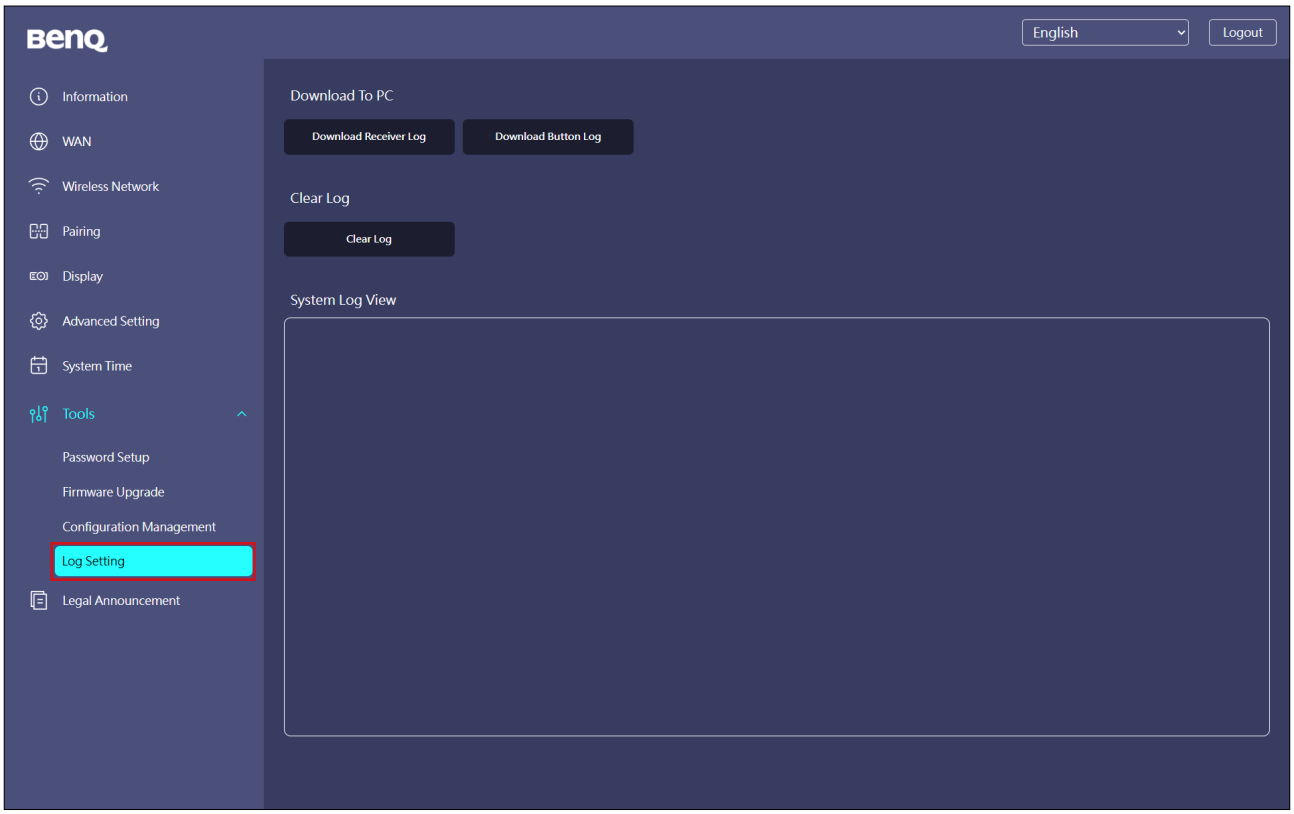
You can have the Receiver restore to **Factory Default** by clicking **Return to Factory Default Setting**.

When the process is confirmed the Receiver will begin restoring to **Factory Default** and the LED will quick flash red then restart. After the Receiver restarts the entire process is complete.

Log Setting

Logs are records of all system activity for your Receiver, which may be used by support technicians to track errors or locate bugs. In the **Log Setting** menu you can:

- Download the Button or Receiver's log to your local computer by clicking **Download Button Log** or **Download Receiver Log.**
- Clear the system log by clicking **Clear Log**.
- View the system log in the **System Log View** window.



Legal Announcement

For information about disclaimer or privacy policy, press **Legal Announcement** to find out more.

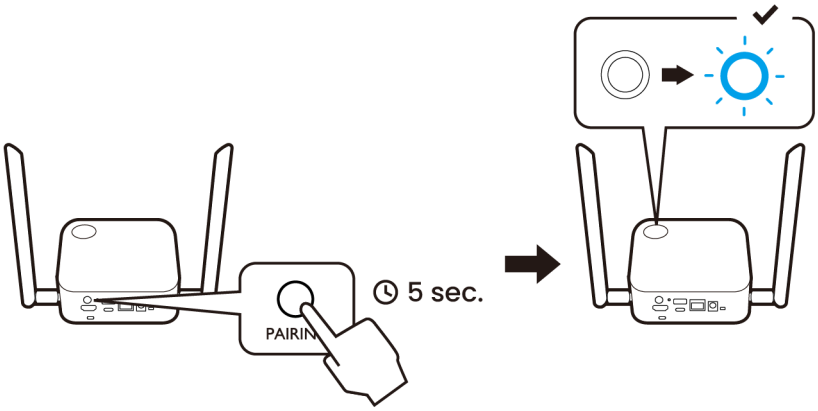
Additional instructions

Pairing a Receiver and a separately purchased Button

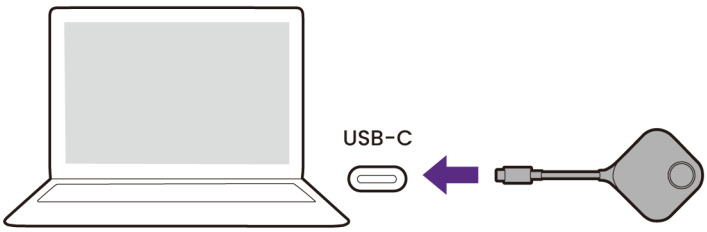
A product set includes a Receiver and a Button, which are paired before shipment. In such a case, you don't need to pair them again. However, if you buy two or more product sets, and you want to pair a Button with a different Receiver, you need to follow the instruction below. If you buy an additional Button kit, and you want to pair the new Buttons with your Receiver, you need to follow one of the methods below as well.

Pairing when the Receiver is placed on a table

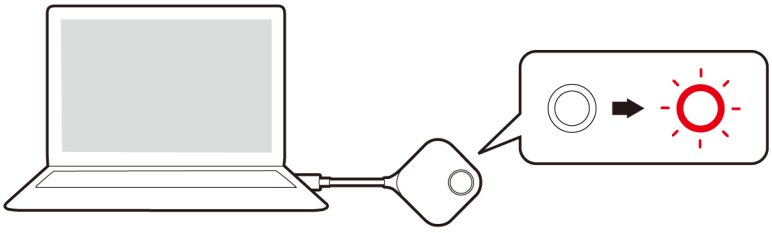
1. Make sure your Receiver is ready with a power supply. Press the **PAIRING** key of the Receiver for five seconds, the LED indicator of the Receiver will blink blue for two minutes, waiting to pair with a Button.



2. Connect the Button to the corresponding input of a laptop.

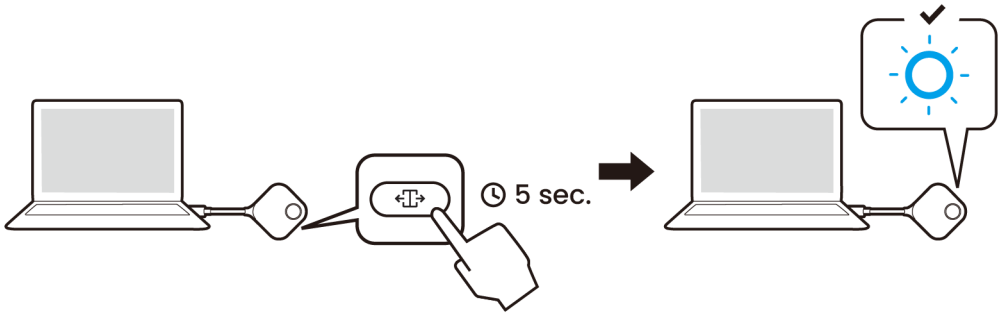


3. When the new Button is connected to the laptop, the LED indicator of the Button will flash red.

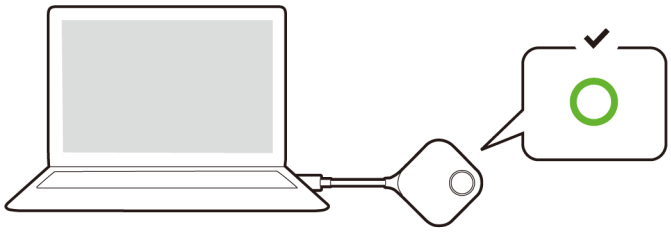


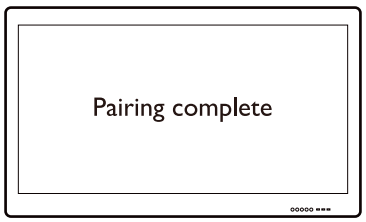
- If a Button nearby has been paired with a Receiver before, it will turn static green.
- If the Receiver is attached to the ceiling so that it is not easy to press the **PAIRING** key, please use the pairing process in the web management interface. Refer to Pairing on page 55 for information.

4. Press the split screen key on the side of the Button for five seconds. The LED indicator of the Button will blink blue for about 30 seconds. The pairing process is ongoing. The "**Pairing in progress**" message will be shown on the screen.



5. The LED indicator of the Button turns static green and a "Pairing complete" message will be shown when the Receiver and Button are successfully paired.





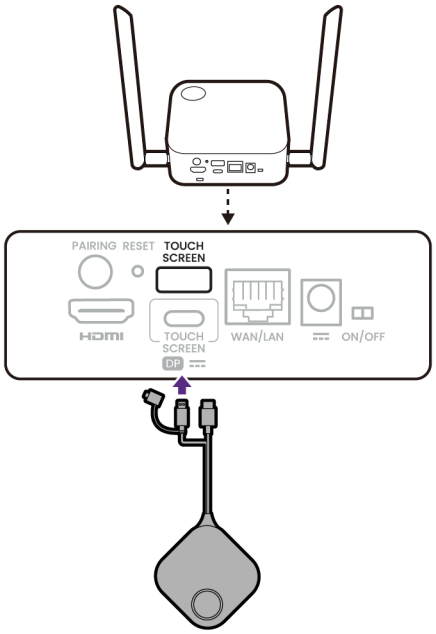
The maximum number of Buttons you can pair with one Receiver is 64.

Pairing via direct connection to the Receiver

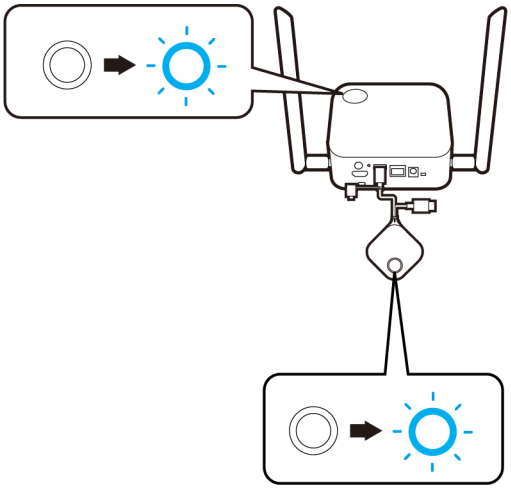
1. Follow the steps in Switching to the Button/Host Button HDMI cable on page 30 to switch the Button's connector to the HDMI cable.

> A regular USB-C-to-USB-A adapter can also be used on the Button to complete the process described in this section.

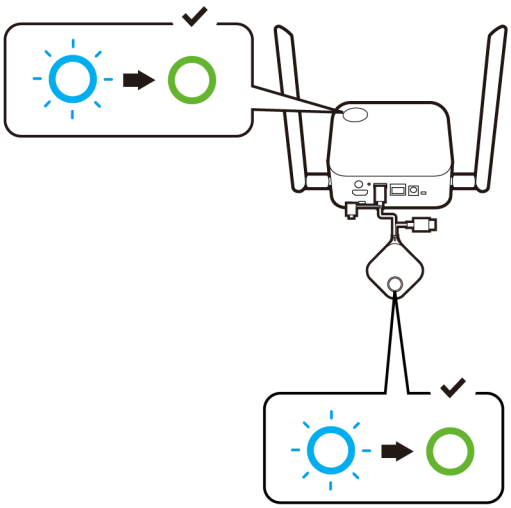
2. Connect the Button's USB-A connector to the **TOUCH SCREEN** port of the Receiver.



3. The LED indicator of the Receiver and Button will blink blue for a few seconds. The pairing process is ongoing. The "**Pairing in progress**" message will be shown on the screen.



4. The LED indicator of the Button turns static green and a “Pairing complete” message will be shown when the Receiver and Button are successfully paired.



Resetting a Receiver

Resetting a Receiver allows you to return the Receiver to its original factory settings. You may want to reset the Receiver because of either one of the following reasons:

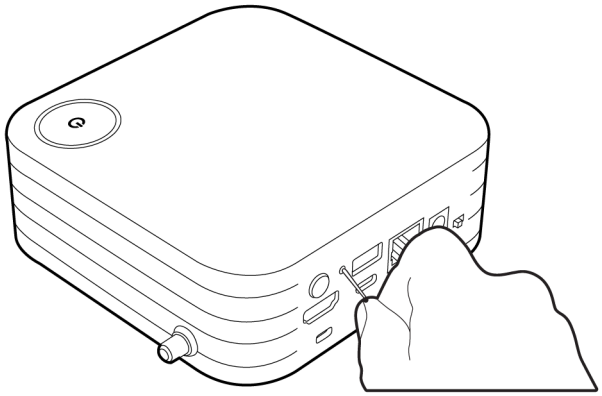
- You want to clear the web management interface of all changes made to its configurations, such as passwords, SSID, etc. and return it back to its default settings. Refer to Web management on page 43 for more information.
- You are unable to access the web management interface (for instance due to an altered or lost password).

Reset the Receiver using the following steps:

1. Connect the power port on the Receiver to a power source and wait for at least 90 seconds.

> After the Receiver has been connected to a power source for at least 90 seconds, the Receiver LED may indicate any one of the statuses described in Receiver LED indicator on page 14. As long as the Receiver has been connected to a power source for at least 90 seconds, you may proceed to the next step of the resetting process regardless of the status of the Receiver LED.

2. Poke the **RESET** hole at the rear of the Receiver with a pin for at least 5 seconds and then stop.



3. The Receiver LED will begin quick flashing red (flash red twice every second) for a few seconds, then light up static white for 3 seconds, indicating that the Receiver is resetting.
4. Once the Receiver LED lights up static green the resetting process is complete.

> Do not disconnect the Receiver from its power source at any time during the resetting process.

Resetting a Button/Host Button

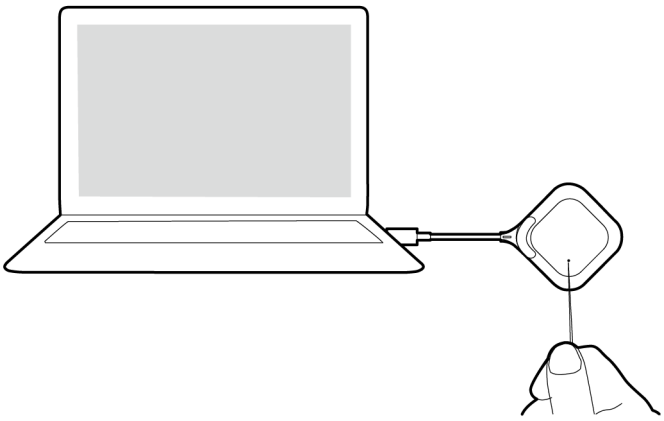
The following instructions can be applied to both Buttons and Host Buttons.

Resetting a Button allows you to return the Button to its original factory settings. You may want to reset a Button when the Button is behaving abnormally. Reset a Button using the following steps:

1. Connect the USB connector on the Button to a powered-on laptop and wait for at least 30 seconds.

After the Button has been connected to a powered on laptop for at least 30 seconds, the Button LED may indicate any one of the statuses described in Button LED indicator on page 13. As long as the Button has been connected to a powered on laptop for at least 30 seconds, you may proceed to the next step of the resetting process regardless of the status of the Button LED.

2. Poke the **RESET** hole at the bottom of the Button with a pin for at least 5 seconds.



3. The Button LED will begin quick flashing red for a few seconds, then light up static white for a few seconds, indicating that the Button is resetting.
4. Once the Button LED lights up static green the resetting process is complete.

Do not disconnect the Button from its power source at any time during the resetting process.

Enabling network standby mode

You can set the Receiver to enter network standby mode after a period of inactivity. To set the time of inactivity, go to **Web Management** > **Advance Setting** > **Network Standby**. See Advance Setting on page 59 for more information.

To enable network standby mode, if there is no wireless devices connected to the Receiver's SSID within the set time, press the standby button on the Receiver to enable network standby mode immediately.

The LED indicator on the Receiver lights up static white when it is in network standby mode.

The network standby mode is disabled when

- a wireless device is connected to the Receiver's SSID; or
- you press the standby button on the Receiver.

- The power consumption of the product in network standby mode is less than 7.0 W.
- The product will be switched to network standby mode automatically after 15 minutes of inactivity.

Troubleshooting

Category	Problem	Cause	Solution
Your screen	Your screen is not appearing on the display when pressing the Button.	The Button is connecting to another Receiver.	The Button should be paired again with the Receiver.
		Pressing time is not enough.	Press the Present key until the LED indicator turns from green to blue.
	The screen turns blank or flickers when the Receiver is presenting.	Insufficient power supply.	Make sure the product's power is properly supplied or connected.
	The screen lags seriously and the audio breaks up sometimes.	Insufficient power supply for the Button. A laptop with USB 2.0 port may be used as the power supply for the Button.	Make sure you use USB 3.0 as the power supply for the Button.
The Button	The Button automatically restarts sometimes.	Insufficient power supply.	Make sure you use USB 3.0 as the power supply for the Button.
	The LED indicator on the Button remains static red even after it has been powered on for 30 seconds.	The Button has not been properly powered off during the resetting process.	Reset the Button.
The Receiver	Nothing is shown on the display at all.	The display is switched off.	Switch on the display.
		The wrong input is selected.	Select the correct input.
		The video cable is not connected properly.	Insert the HDMI cable between the Receiver and the display device again.
		The display fails to show the Receiver's output resolution at 1080p in "Guide Screen" or "Idle Screen".	Replace the display with a new one that supports output resolution at 1080p.
		Insufficient power supply.	Change power supply of Receiver to a power adapter.
The Receiver	The LED indicator on the Receiver remains static red even after it has been powered on for 30 seconds.	The Receiver has not been properly powered off during the resetting process.	Reset the Receiver.

Category	Problem	Cause	Solution
EDID	After connecting the Button to your laptop, the second screen (Insta-Show™) cannot be detected.	The HDMI connection between your laptop and the Button is loose.	Reconnect the HDMI cable of the Button.
		Laptop problem	Reboot your laptop.
		The Button is shut-down.	Reconnect the USB cable of the Button.
Pairing	The message, **Pairing failed**, from the Receiver is shown on the display when the Receiver is pairing with the Button.	The Receiver has reached the maximum number of pairing.	Log into the web management, then select **Pairing** > **Pairing Status** > **Delete**. Delete unnecessary pairings.
		Wi-Fi interference or signal attenuation	Make sure the transmission distance is within 15 meters and with no obstacles.
		The Button has not entered the pairing mode in time.	When the Receiver enters pairing mode, the Button should also enter pairing mode within two minutes.
Windows Software	When presenting a video file via Gom Media Player, the full-screen image is cut into upper and lower halves.	Media player	Use other media players to play video files, such as Windows Media Player.
Web management	Cannot Log in	Forgot the account and password.	1. Reset the Receiver. 2. The default log in account: admin 3. The default log in password is located on the label one the bottom of the Receiver (without the lid installed).
	Laptop cannot connect the SSID with the correct password by Wi-Fi.	Laptop Wi-Fi module cannot support 802.11 AX.	Laptop can connect to the Receiver with an Ethernet cable instead of Wi-Fi connection.
Touch-back	The touch back function is not working.	The Receiver does not support USB hot-plugging for touch back.	Please ensure the USB touch connection is properly established before powering on the device. See “Connecting the Receiver” on page 25 .
		The touch back function is not supported over USB-C on certain devices, such as MacBooks.	Try using devices through an HDMI connection. NOTE: The touch back function currently does not support Mac Books.
	Why is the touch back feature on my device not properly aligned?	The Receiver’s touch back function performs optimally at a 16:9 resolution.	Adjust the video output resolution to a 16:9 aspect ratio.

Category	Problem	Cause	Solution
Display	My presentation screen is not clear or smooth enough.	Inappropriate mode for presentation.	During wireless presentation, you are provided with **Presentation Mode** for documents and **Video Mode** for video clips. Choose the appropriate mode for your presentation by pressing the split screen key on the Button. See “Playing videos with InstaShow™” on page 37 .
Power	The Receiver or Multimedia Hub is unable to be powered.	The adapter/plug is malfunctioning.	Repair or replace the complete set of adapter and plugs for the device.

Appendix A: Pairing a Host Button

In instances where the original Host Button provided with your InstaShow set malfunctions and you receive a replacement Host Button, you will have to pair the replacement Host Button with both the Receiver and Multimedia Hub.

Pairing a Host Button and a Receiver

1. Follow the steps in Multimedia Hub Firmware Upgrade on page 30 to switch the Host Button's connector to the HDMI cable.

   A regular USB-C-to-USB-A adapter can also be used on the Button to complete the process described in this section.

2. Connect the Host Button's USB-A connector to the **TOUCH SCREEN** port of the Receiver.
3. The LED indicator of the Receiver and Host Button will blink blue for about 10 seconds. The pairing process is ongoing. The "**Pairing in progress**" message will be shown on the screen.
4. The LED indicator of the Host Button turns static green and a "**Pairing complete**" message will be shown when the Receiver and Host Button are successfully paired.

Pairing a Host Button and a Multimedia Hub

1. Connect the power port on the Multimedia Hub to a power source and wait for at least 90 seconds.
2. Press the **PAIRING** key on the rear side of the Multimedia Hub.
3. When the Multimedia LED indicator on the Multimedia Hub begins flashing blue, connect the replacement Host Button to either the **USB C** or **USB A** port at the rear of the Multimedia Hub.

   In order to connect the Host Button to the **USB A** port on the Multimedia Hub. The cable on the Host Button must be switched to the HDMI cable provided in the InstaShow set. See Multimedia Hub Firmware Upgrade on page 30 for more information.

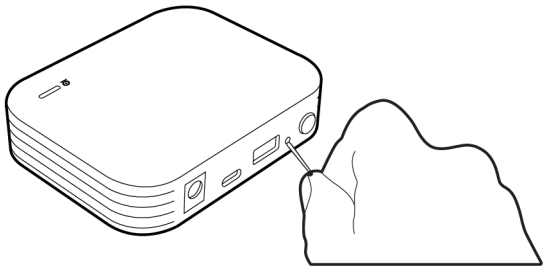
4. When the Multimedia LED indicator on the Multimedia Hub lights up solid green, the pairing process is finished. Disconnect the Host Button from the Multimedia Hub.

Appendix B: Resetting a Multimedia Hub

Resetting a Multimedia Hub clears the Multimedia Hub of its pairing information (with the Host Button).

Reset the Multimedia Hub using the following steps:

1. Connect the power port on the Multimedia Hub to a power source and wait for at least 90 seconds.
2. Poke the **RESET** hole at the rear of the Multimedia Hub with a pin for at least 5 seconds and then stop.



3. The Multimedia LED indicator will begin quick flashing red (flash red twice every second) for a few seconds, then light up static white for 3 seconds, indicating that the Multimedia Hub is resetting.
4. Once the Multimedia LED lights up static green the resetting process is complete.

After the Multimedia Hub is reset, you will have to pair it with the Host Button you want to use it with. See Multimedia Hub Firmware Upgrade on page 82 for more information.

Appendix C: Upgrading a Multimedia Hub's firmware

There are multiple ways to upgrade the Multimedia Hub’s firmware:

- Via the Web Management menu interface. See Multimedia Hub Firmware Upgrade on page 67.
- Via a USB flash drive.

Upgrading the Multimedia Hub's firmware via USB flash drive

Before upgrading the Multimedia Hub’s firmware, you must first:

- Download the firmware upgrade file from BenQ’s support website.
- Prepare a USB-A flash drive with at least 32GB of storage in the FAT32 format.

To upgrade the Multimedia Hub’s firmware:

1. Save the upgrade file into the USB-A flash drive.
2. Insert the flash drive into the **USB A** port at the rear of the Multimedia Hub.
3. Power on the Multimedia Hub. The Multimedia LED on the Multimedia Hub will flash green indicating that the upgrade is in progress.

   When performing any type of upgrade DO NOT power off or press the reset button on the Multimedia Hub.
   Failure to follow this warnings will result in firmware upgrade failure and subsequent product failure.

4. Once the Multimedia LED on the Multimedia Hub lights steady green indicating that the upgrade has finished, remove the flash drive from the Multimedia Hub.

Appendix D: Security

Network Port Requirements

InstaShow communicate via standard TCP/IP network protocols. Since network ports and applications that generate network traffic may be blocked from your organization's network by its firewall policies, certain network ports must be enabled in the devices within the network infrastructure (e.g., network switches, wireless routers, laptops) before you can properly set up InstaShow.

Network Ports Used by the InstaShow Host:

Port	Protocol	Service	Description
22	Tcp	ssh	Remote administration/maintenance on LAN.
53	tcp	DNS	Internal name resolution (TCP for zone transfers/ large responses, UDP for queries).
80	tcp	http	AirPlay, ChromeCast, Web server. FW OTA
443	tcp	https	AirPlay, ChromeCast
2425	tcp	fjitsuappmgr	Button <--> Receiver Proprietary protocol, image transmission
2426	tcp	vcmp	Button <--> Receiver Proprietary protocol, image transmission
3517	tcp	WAPP	MediaTek Wireless service application.
7000	tcp	afs3-fileserver	Airplay
7001	tcp	afs3-callback	Airplay
7100	tcp	font-service	Airplay
8008	tcp	http	ChromeCast
8009	tcp	tcpwrapped	ChromeCast
8010	tcp	tcpwrapped	ChromeCast
63630	tcp	unknown	Button <--> Receiver Proprietary protocol, image transmission
9000	tcp	MTK_DUT	MediaTek Wi-Fi Test Suite application.
123	udp	ntp	ChromeCast

HIGH-DEFINITION MULTIMEDIA INTERFACE

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