

Multi-cast receiver

ELMO Cast D15

Instruction Manual



■ Contents

■ Contents.....	2
■ Important safeguards	3
■ Usage precautions.....	7
① Before use.....	8
◆ Package contents	8
◆ Part names.....	9
■ receiver	9
■ Home screen	10
② Basic operations.....	11
◆ Connecting to a projector or display monitor	11
◆ Miracast streaming from the document camera.....	12
◆ Miracasting from other devices.....	12
◆ Switching devices to be mirrored	13
③ Advanced operations.....	14
◆ Configuring settings of the receiver	14
◆ Connecting the receiver to the network	25
④ FAQ (Frequently Asked Questions)	26
⑤ Troubleshooting	28
◆ Symptom, possible cause, and remedy	28
⑥ Specifications	31
◆ Hardware	31
◆ System requirements.....	32
■ Trademarks and licenses.....	33

■ Important safeguards

■ Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

■ Retain Instructions

The safety and operating instructions should be retained for future reference.

■ Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

■ Follow Instructions

All operating and use instructions should be followed.

■ Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

■ Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

■ Water and Moisture

Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

■ Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

■ Grounding or Polarization

This product may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug, a plug having a third (grounding) pin. If the 2-Wire polarized plug will not fit in the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. The 3-wire grounding type plug will fit into a grounding type power outlet.

This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

■ Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

■ Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

■ Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

■ Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

■ Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

■ Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance - this indicates a need for service.

■ Replacement Parts

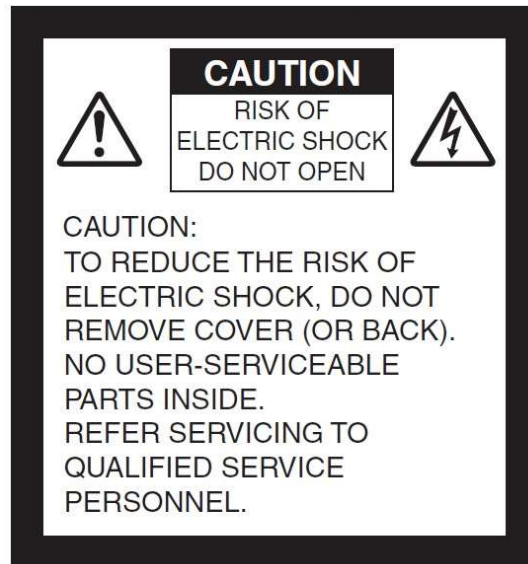
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

■ Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

■ Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



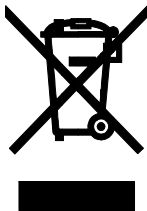
SA 1965

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



SA 1966

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries.

Please do not throw the equipment into the domestic refuse. Please use the return and collection systems available in your country for the disposal of this product.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user’s authority to operate the equipment.

FOR UNITED STATES USERS:**INFORMATION**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

USER-INSTALLER**CAUTION:**

Your authority to operate this FCC verified equipment could be voided if you make changes or modifications not expressly approved by the party responsible for compliance to Part 15 of the FCC rules.

■ Usage precautions

■ About electric waves used by this product

This product uses electric waves in the 5.0GHz band (default setting) and 2.4 GHz band. When using this product, a radio station license is not necessary. However, please note the following precautions.

Do not use this product near the followings:

- In-factory radio stations for mobile unit identification systems (radio stations that require a license) used in production lines of factories
- Microwave ovens and industrial, scientific or medical equipment, such as pacemakers
- Specified low power radio stations (radio stations that do not require a license)
- IEEE802.11a/b/g/n/ac wireless LAN units

When this product is used near any of the equipment mentioned above, electric wave interference may occur, making this product difficult to use.

■ Precautions for using the product in 5.0GHz band or 2.4GHz band

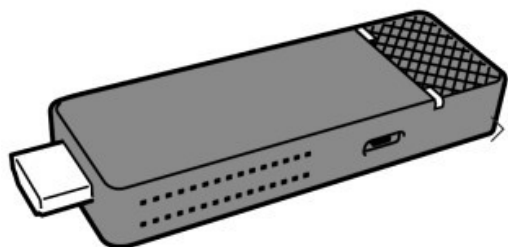
- In addition to industrial, scientific and medical equipment such as microwave ovens, in-plant radio stations for mobile equipment identifier (radio stations requiring licenses) and specified low-power radio stations (radio stations not requiring licenses) used for factory production lines are used in the frequency bands used by this product.
- Before use, confirm that in-plant radio stations for mobile equipment identifier and specified low-power radio stations do not operate in your vicinity.
- In the event that this product causes harmful interference to any in-plant radio stations for mobile equipment identifier, immediately halt radio wave emission and contact the dealer from whom you purchased the product for consultation on interference avoidance measures (e.g., partition installation).
- Please contact the dealer from whom you purchased the product if this product causes harmful interference to any specified low-power radio stations or amateur radio stations, or if other problems arise.

<https://www.elmousa.com> <https://www.elmoeurope.com>

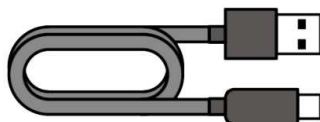
1 Before use

◆Package contents

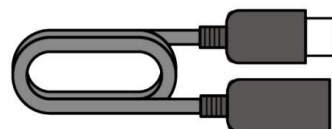
The items below are included in the package. If any item is missing, contact the dealer from whom you purchased this product.



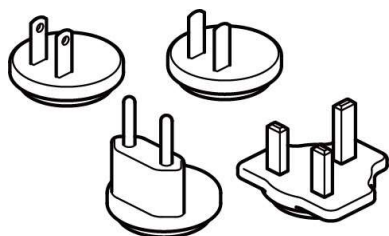
HDMI receiver



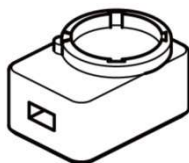
USB cable for power supply
(Type-C to A)



HDMI cable



Power plug



AC adapter



Quick Start Guide

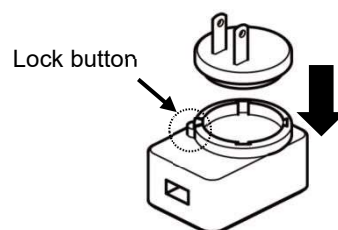
● AC adapter

While pushing the power plug into the groove of the AC adapter, rotate it.

※Push and rotate it until it clicks.

※Choose the correct plug according to the outlet.

To remove the plug, rotate the plug while pressing the lock button and pull.

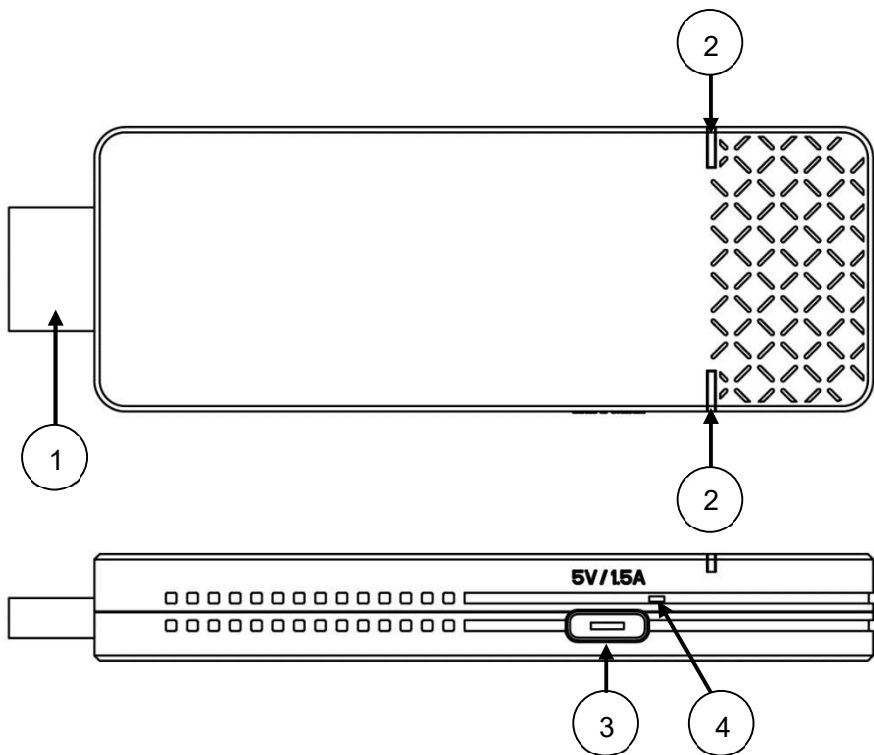


Caution

Do not wrap the USB cable tightly around the AC adapter. The cable could be damaged (disconnected) or the inside of the cable could be exposed and result in an accident. Do not bundle the cables when using this product.

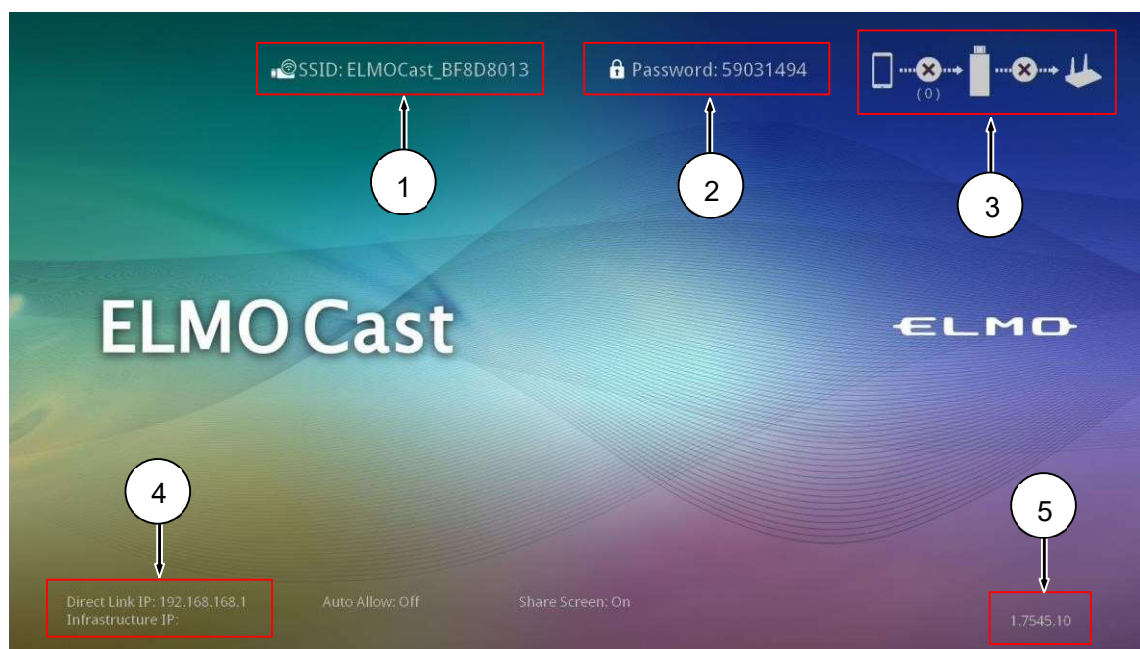
◆Part names

■receiver



Number	Name	Description
①	HDMI port	To connect to the HDMI port of a device such as display monitor or projector.
②	Status LED	Lights up blue when the power is turned on.
③	USB port for power supply	To connect to the AC adapter with the supplied USB cable (Type-C to Type-A) .
④	Reset button	To initialize settings or admin password. Press this button for about 8 seconds after the product is started.

■Home screen



Number	Description	
①	The connection destination of receiver.	
②	Password of the access point of receiver.	
③	Status of receiver.	
	No connection. (2.4GHz)	
	No connection. (5.0GHz)	
	Direct connection (WiFi) only.	
	Connection via router only. (Additional network configuration required.⇒P.25)	
	Direct connection and connection via router.	
	Latest firmware is available for update. (Perform the update as necessary.⇒P.26)	
④	IP address of the receiver.	
	Direct Link IP	IP address for direct connection.
	Infrastructure IP	IP address for connection via router.
⑤	Firmware version.	

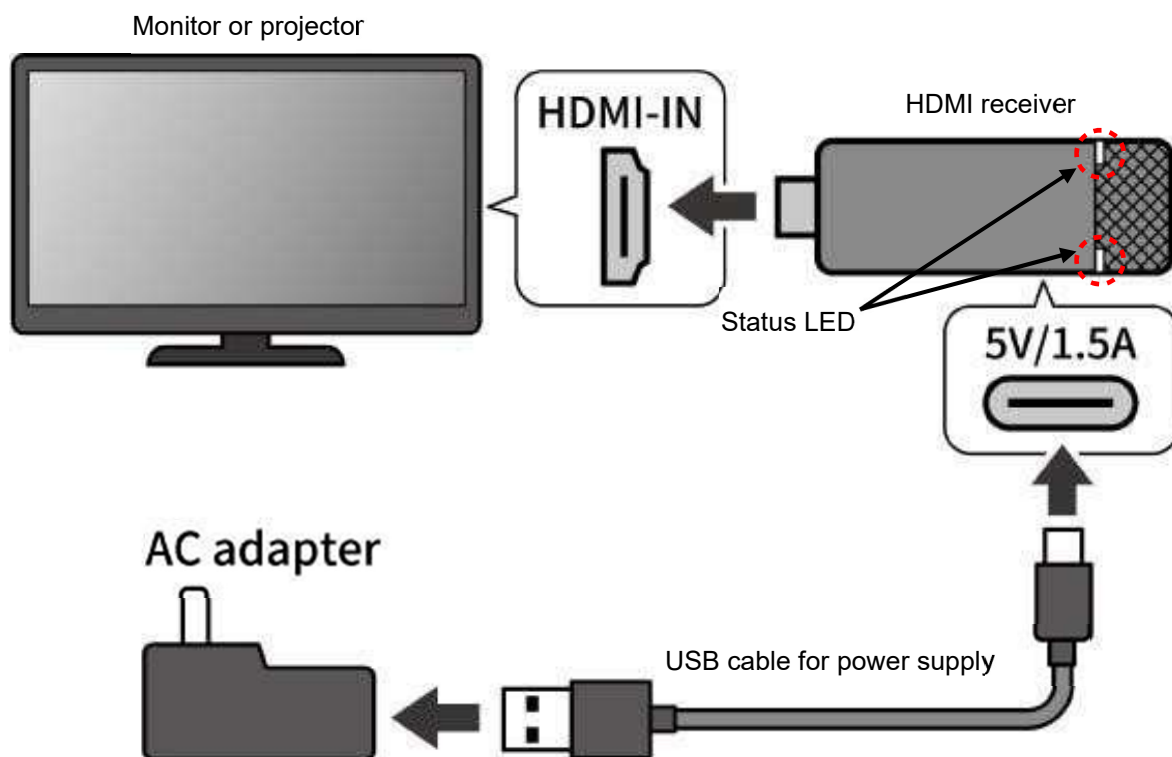
Note

- It is also possible to connect the receiver to an existing network in addition to the "direct connection". Enter the IP address in the browser and log in as an administrator. Then configure the network settings of the receiver from the Settings screen, and connect to a wireless access point on the existing network.

② Basic operations

◆Connecting to a projector or display monitor

1. Connect the receiver to the HDMI input port of a projector or a display monitor.
2. Connect the receiver and the AC adapter with the USB cable for power supply.
Then connect the adapter to a wall outlet.
3. In about 3 seconds after the adapter is connected to the outlet, the power of the receiver turns on (Status LED: blue) and the "ELMO Cast D15" Home screen appears on the screen.



Caution

- For stable operation, do not connect the receiver to the USB port of a display monitor or projector or recording device. Use the supplied AC adapter.
- Always unplug the AC adapter from the power outlet when not in use. Leaving the AC adapter plugged into a power outlet may cause parts to deteriorate faster, resulting in reduced product performance and quality.

Note

Use the supplied HDMI cable as necessary.

◆Miracast streaming from the document camera

1. Select "Miracast" from the menu of the document camera.
2. Select the SSID of the receiver from a list of connectable devices.
3. When the connection is established, the image of the document camera appears on the screen.

※For details of how to do Miracasting, refer to the instruction manual of the respective document cameras.

※When "Miracast automatic connection setting" of the document camera is enabled, Miracast connection is automatically performed from the second time onwards.





◆Miracasting from other devices



●When using Android OS

1. Turn on the Wi-Fi setting of your device.
2. Turn on the Miracast (mirroring) setting of your device.
※The menu item may be different depending on the device.
3. Select the SSID of the receiver.


●When using Windows OS

1. Click the Action Center icon [] in the task bar.
2. Click the Connect icon [].
※If this icon is not displayed, click the Open icon.
3. Select the SSID of the receiver from the list.
※If the following message is displayed, it is not possible to do Miracasting:
"Your PC or mobile device does not support Miracast, so it can't project wirelessly."


●When using shortcut keys on Windows OS

1. Press [ + [] of your device at the same time to open a list of connectable devices.
2. Select the SSID of the receiver from the list.

●When using iOS, iPad OS, or Mac OS

1. Turn on the WiFi setting of your device and select the SSID of the receiver. Then connect the device to the receiver via WiFi.
2. Turn on the Mirroring setting [] of your device.
3. Select the SSID of the receiver from the list.

- When using Chrome OS

1. Turn on the Wi-Fi setting of your device and select the SSID of the receiver. Then connect the device to the receiver via Wi-Fi.
2. Enter the IP address of the receiver in the Chrome browser and log in as an administrator.
3. Enter the network management menu and connect the receiver to the network.
4. Open the Chrome browser on your device.
5. Tap the Other icon [] on the top right and tap [Cast].
6. Select the SSID of the receiver from a list of connectable devices. Perform Chromecast (mirroring) from your device.

※No matter which OS is used, you need to connect to the network when mirroring from the Chrome browser.

※For details of the Wi-Fi connection and mirroring operations, refer to the instruction manual of the respective devices.

◆Switching devices to be mirrored

- When performing Miracast streaming

Disconnect the Miracast connection of the device currently used first and start Miracasting of the next device.

- When mirroring via Airplay or Google Cast

By default, if mirroring is started from other device while mirroring is in progress, the screen images of both devices will be displayed simultaneously (up to 4 splits) in one screen.

If you want to switch devices without displaying the images in one screen, disconnect the Miracast connection of the device currently mirrored first and start mirroring of the next device.

Alternatively, change the setting of the Host control menu in the Admin settings as follows:

「Screen share」→「OFF」

③ Advanced operations

◆Configuring settings of the receiver

Connect your device to the receiver via WiFi.

Start the browser on your device and enter the IP address (default value: 192.168.168.1) of the receiver in the address field to access the Settings screen.

●Security Warning When Accessing the Settings Screen

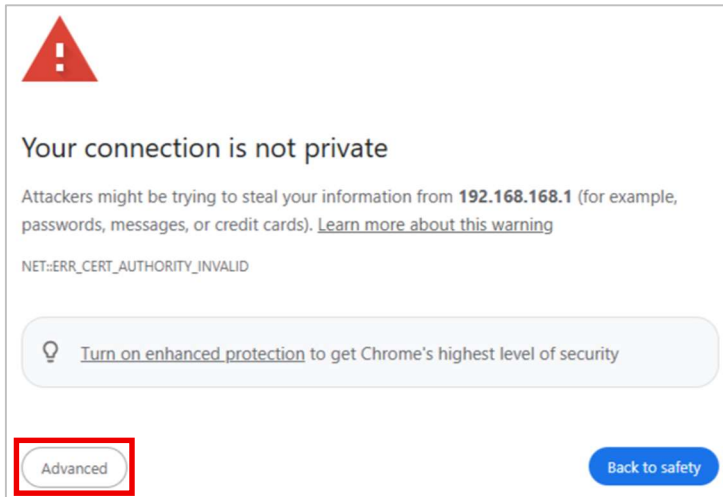
Starting from FW version 1.12170.108, the Settings screen of this product only supports HTTPS (encrypted communication) for security. In addition, because the configuration is performed over a local network, the product uses a self-signed certificate.

When accessing the Settings screen, your browser may display a warning. This occurs because the browser treats the self-signed certificate as “untrusted.” However, since the configuration is performed over a local network and the communication is encrypted, connecting to the device does not pose any security threat. Please note that the communication is encrypted.

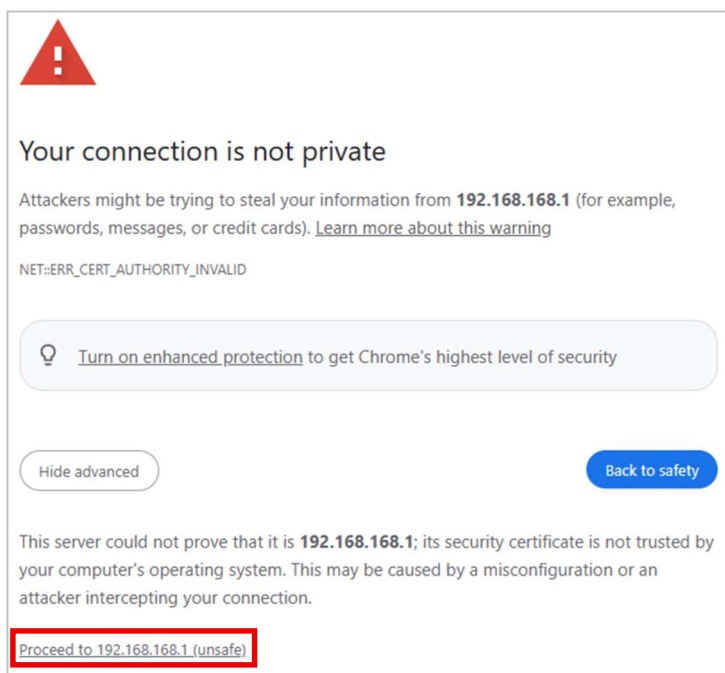
To access the Settings screen, please follow the instructions below to continue.

[Chrome / Edge]

1. When the following warning screen appears, click **“Advanced”**.



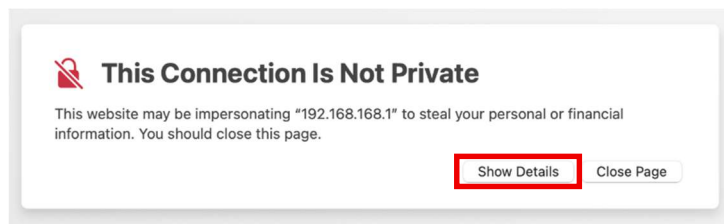
2. At the bottom of the screen, click **“Proceed to 192.168.168.1 (unsafe)”**



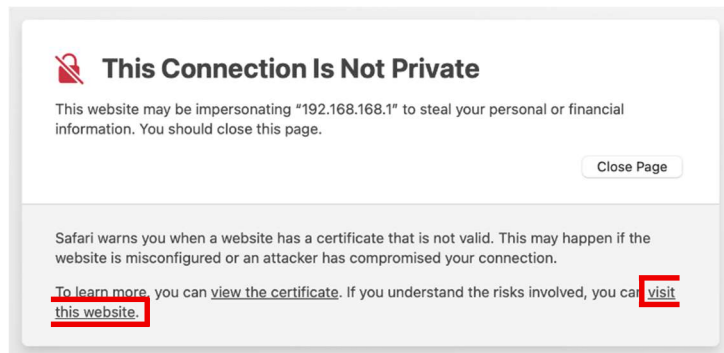
3. The Settings screen will be displayed.

[Safari]

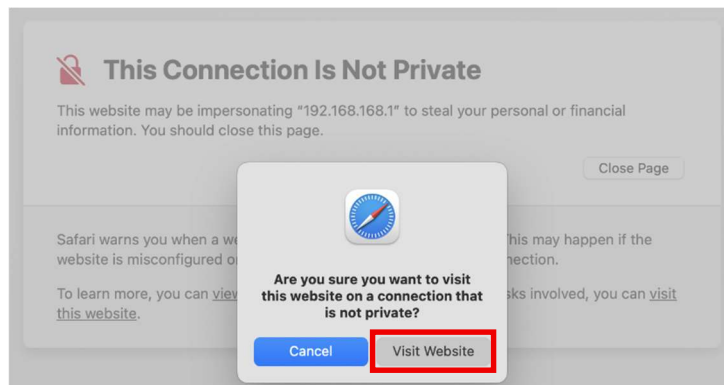
1. When the following warning screen appears, click **“Show Details”**.



2. At the bottom of the screen, click **“Visit this Website”** in the text.



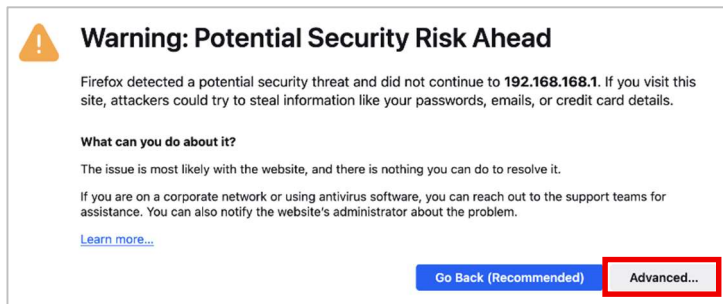
3. A pop-up window will appear. Click **“Visit Website”**.



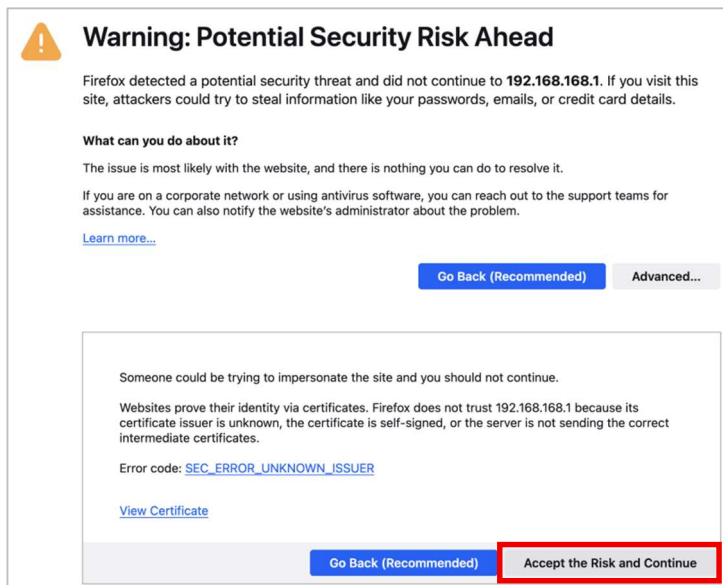
4. The Settings screen will be displayed.

[Firefox]

1. When the following warning screen appears, click “**Advanced...**”.



2. At the bottom of the screen, click “**Accept the Risk and Continue**”.

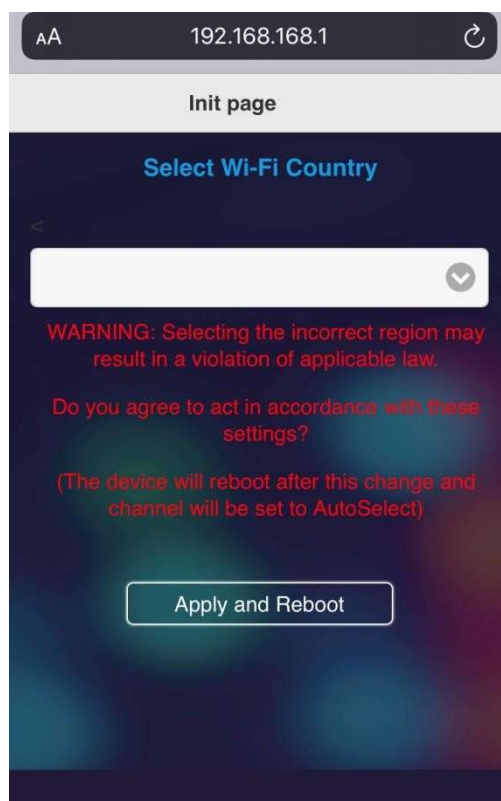


3. The Settings screen will be displayed.

When you access for the first time, the selection screen for the country in which this receiver is used will be displayed. Select the country from the list and click the button at the bottom to restart. After restarting, the WiFi settings of the selected country will be applied.

Caution

Choosing an inappropriate country may violate the laws and regulations of each country. Be sure to select the country correctly.



Caution

Depending on the device or browser you are using, the setting menu may remain in English. In that case, select the language you want to use from "Device management" → "Language".

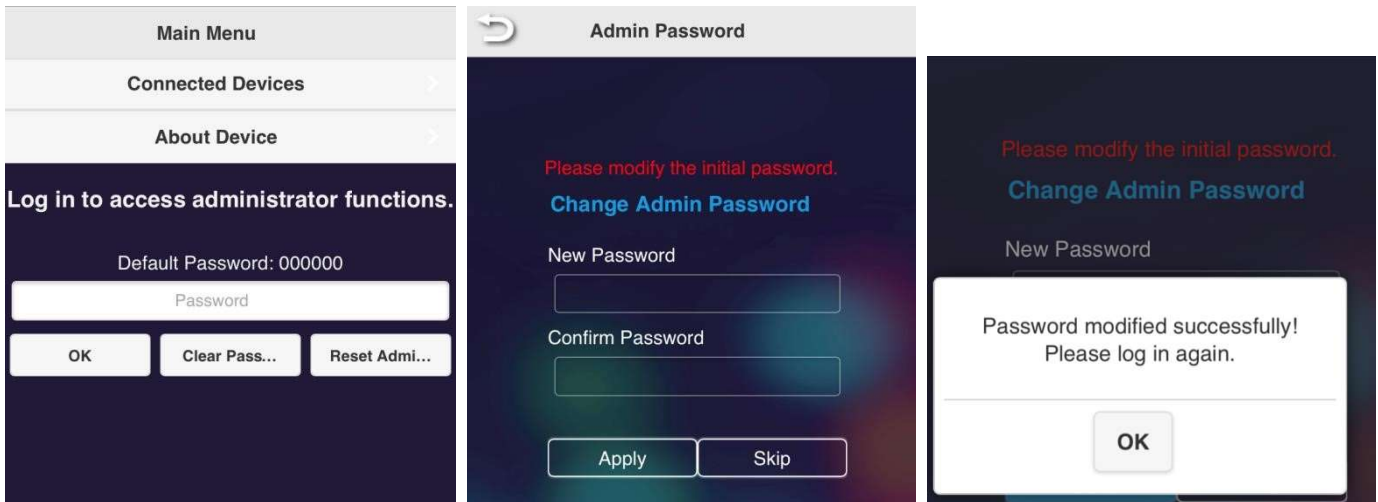
■ Login to the Administrator account

You can change detailed settings by logging in to the Administrator account. When you log in for the first time, you will be asked to change your password. Follow the steps below to change your password.

Starting from FW version 1.12170.108, changing the password is mandatory, and the device cannot be configured until the password has been changed.

In FW version 1.12170.96, you can skip changing your password, but unless you change your password, you will be prompted to change your password every time you log in.

● Logging in to the Administrator account (changing the admin password)



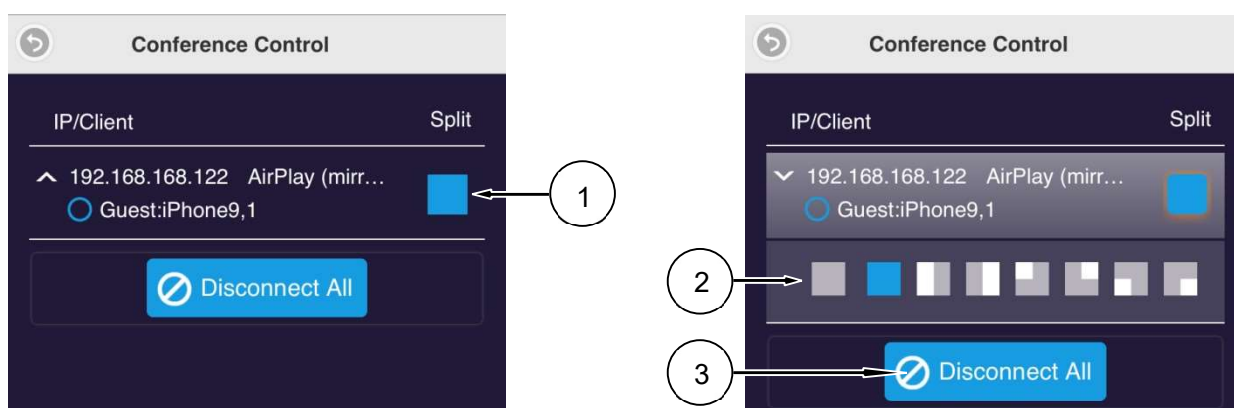
1. Log in with the default password "000000".
 2. The password change screen will be displayed. Set a new password.
FW version 1.12170.108 and later:
The password must meet the following requirements:
 - 8 characters or more
 - 16 characters or less
 - Contain at least three of the following: uppercase letters (A–Z), lowercase letters (a–z), numbers (0–9), and symbols (#, -, @, _, space)FW version 1.12170.96:
The password must meet the following requirements:
 - 6 characters or more
 - 64 characters or less
 - Only alphanumeric characters
 3. Other than "000000" When the password change is completed, the message "Password modified successfully! Please log in again." will be displayed. Click "OK".
 4. You will need to log in again after changing the password.
When the login screen is displayed, log in with the new password.
- ※Starting from FW version 1.12170.108, entering the wrong password five times in a row will lock the login for a certain period.

■ Home menu

Menu item	Description
Connected Devices	To display the device name and IP address of the connected device.
Conference Control	To manage casting of each device.
Device Management	To set the display language and resolution.
Network Management	To configure the network settings.
Admin settings	To configure the advanced settings.
Reboot	To restart the receiver.
About Device	To display basic information such as the SSID of the receiver.

■ Menu descriptions

●Conference Control



1. Click “Split” (①) . The Screen position selection menu (②) will appear.
2. The position of the screen to be cast can be selected from this menu.
3. Click “Disconnect all” (③) to disconnect all the connected devices.

Caution

By selecting the screen position using the Screen position selection menu (②), the existing screen at the selected position will be disconnected.

●Device management (✓:Default setting)

Menu item	Description	When the changes take effect						
Language	To set the display language. Default setting: [Auto] (The display language will be set to the language used for the OS.)	Immediately						
Device Name	To change the device name. (The maximum length is 20 characters. Only alphanumeric characters, symbols (#, @, -) and space are permitted.)	After reboot						
	•Hide SSID	Immediately						
	<table><tr><td>OFF ✓</td><td>To display SSID.</td></tr><tr><td>ON</td><td>To hide SSID.</td></tr></table>	OFF ✓	To display SSID.	ON	To hide SSID.			
OFF ✓	To display SSID.							
ON	To hide SSID.							
Resolution	To set the output resolution from the HDMI port. Default setting: [Auto]	After reboot						
Display Mode	To set the display mode.	After reboot						
	<table><tr><td>Fit to Screen ✓</td><td>To maintain aspect ratio of the input source.</td></tr><tr><td>Stretch Full Screen</td><td>To display in full screen.</td></tr></table>		Fit to Screen ✓	To maintain aspect ratio of the input source.	Stretch Full Screen	To display in full screen.		
	Fit to Screen ✓		To maintain aspect ratio of the input source.					
Stretch Full Screen	To display in full screen.							
AirPlay Mode	To enable / disable display via AirPlay.	After reboot						
	•AirPlay Mirroring							
	<table><tr><td>ON ✓</td><td>To enable AirPlay.</td></tr><tr><td>OFF</td><td>To disable AirPlay.</td></tr></table>		ON ✓	To enable AirPlay.	OFF	To disable AirPlay.		
	ON ✓		To enable AirPlay.					
	OFF		To disable AirPlay.					
	•AirPlay mode							
	<table><tr><td>Auto ✓</td><td>To automatically perform mirroring or video streaming.</td></tr><tr><td>Screen Mirroring Only</td><td>To support screen mirroring only.</td></tr><tr><td>Screen Mirroring + Video Streaming</td><td>To support both screen mirroring and video streaming. ※The receiver needs to be connected to the network.</td></tr></table>		Auto ✓	To automatically perform mirroring or video streaming.	Screen Mirroring Only	To support screen mirroring only.	Screen Mirroring + Video Streaming	To support both screen mirroring and video streaming. ※The receiver needs to be connected to the network.
Auto ✓	To automatically perform mirroring or video streaming.							
Screen Mirroring Only	To support screen mirroring only.							
Screen Mirroring + Video Streaming	To support both screen mirroring and video streaming. ※The receiver needs to be connected to the network.							
※Depending on how the device is operated and the OS version, it may not work as configured.								
AirView	Not used. (※1)	-						
EZNote	Not used. (※1)	-						
Castcode Control	To set castcode for Airplay. Castcode will be displayed at the bottom of the Home screen. When this setting is set to “Random” or “Fixed”, you will need to enter castcode to perform mirroring or video streaming.	Immediately						
	<table><tr><td>OFF ✓</td><td>To disable castcode.</td></tr><tr><td>Random</td><td>To generate castcode randomly.</td></tr><tr><td>Fixed</td><td>To generate fixed castcode (4 digit number).</td></tr></table>		OFF ✓	To disable castcode.	Random	To generate castcode randomly.	Fixed	To generate fixed castcode (4 digit number).
	OFF ✓		To disable castcode.					
	Random		To generate castcode randomly.					
Fixed	To generate fixed castcode (4 digit number).							

Menu item	Description	When the changes take effect
Maximum Connections	To set the maximum number of devices than can be connected to the receiver wirelessly. 4 / 8 ✓ / 16 / 32	Immediately
Android audio streaming	Not used. (※1)	-
Google Cast Support	To set ON✓/OFF the Google Cast function.	Immediately
Miracast Support	To set ON✓/OFF the Miracast function. To set ON/OFF✓ the PIN code setting.	After reboot
Legacy WiFi mode	To enable WiFi 2.4GHz by setting this mode to ON. ※Default setting: OFF✓ (Only 5GHz band can be used.) ※Note that turning this setting ON will degrade the performance. With this receiver, 5GHz band and 2.4GHz band cannot be used at the same time. ※The frequency band used is that of the device that was first connected to the receiver.	After reboot
Reboot Timer	To set the automatic restart function. (OFF✓/8 hours/4 hours/2 hours) When this function is enabled, the receiver will reboot automatically if no casting operation is performed for the set period of time.	After reboot

●Network management (✓:Default setting)

Menu item	Description	When the changes take effect				
Connect to 5GHz WiFi	<p>To display the connection condition of the receiver to the existing network.</p> <p>By selecting this item when the receiver is connected to the WiFi router, it is possible to connect the receiver to the Internet via WiFi.</p> <table><tr><td>Blank ✓</td><td>No Internet access.</td></tr><tr><td>SSID is displayed</td><td>Internet access is established. SSID of the connection destination will be displayed.</td></tr></table>	Blank ✓	No Internet access.	SSID is displayed	Internet access is established. SSID of the connection destination will be displayed.	Immediately
Blank ✓	No Internet access.					
SSID is displayed	Internet access is established. SSID of the connection destination will be displayed.					
Remember WiFi	<p>To set whether to save WiFi settings. (ON✓/OFF)</p> <p>When this setting is ON, the WiFi connection will be established automatically at next reboot.</p>	After reboot				
WiFi IP settings	<p>To set the IP address of the receiver.</p> <p>Select whether to set the IP address automatically or manually when connecting to the Internet with WiFi.</p> <p>※The IP address for the direct connection cannot be changed.</p>	Immediately				
WiFi Password	<p>To set the WiFi password.</p> <p>The password can be hidden.</p>	Immediately				
WiFi Channel	<p>To set country, channel, and bandwidth for WiFi.</p> <p>※If the receiver is connected to an AP, these items are determined according to the channel of the AP.</p>	After reboot				

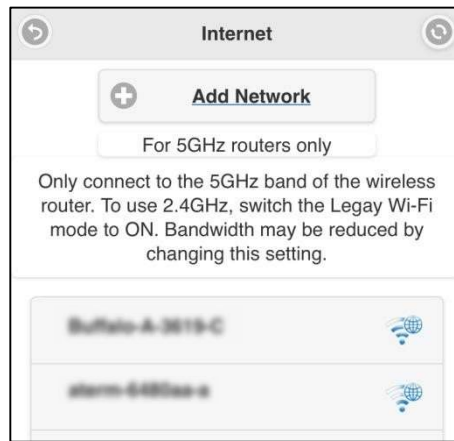
●Admin settings (✓:Default setting)

Menu item	Description	When the changes take effect				
Admin Password	To change admin password.	Immediately				
Enterprise WiFi	To change the wireless certificate from WPA2-PSK to WPA2-EAP. A digital certificate is required for WPA2-EAP.	After reboot				
Host's Authority	Not used.(※1)	-				
Host Control	<div><div>•"Auto Allow Requests(ON/OFF)" cannot be used. (※1)</div><div>•Share Screen</div><table><tr><td>ON ✓</td><td>When multiple devices are mirrored, their screen content will be displayed in split-screen display. (Max.4 split screen)</td></tr><tr><td>OFF</td><td>When multiple devices are mirrored, their screen content will be displayed one by one.</td></tr></table><div>Miracast setting cannot be set. The actual motion may vary depending on the type of mirroring. (⇒P.13)</div></div>	ON ✓	When multiple devices are mirrored, their screen content will be displayed in split-screen display. (Max.4 split screen)	OFF	When multiple devices are mirrored, their screen content will be displayed one by one.	After reboot
ON ✓	When multiple devices are mirrored, their screen content will be displayed in split-screen display. (Max.4 split screen)					
OFF	When multiple devices are mirrored, their screen content will be displayed one by one.					

Menu item	Description	When the changes take effect
Internet Access control	To set the network access of the device directly connected to the receiver.	
	All Allowed ✓	All devices connected are allowed to connect to the existing network through the receiver.
	Only Casting Users	Cannot be enabled. All devices, whether they are casting users or not, cannot connect to the existing network via the receiver.
	All Denied	No devices are allowed to connect to the existing network through the receiver.
SNMP	To set ON / OFF ✓ the SNMP.	Immediately
My Screen	To change the Home screen. ※Resolution 1,920×1,080, size 2MB or less, PNG format only	Immediately
Dynamic Wallpaper	Not used. (※1)	Immediately
OTA Update URL	Not used. (※1)	Immediately
Connection	To select the connection method.	
	Both ✓	Devices may connect to the receiver through the existing network by using direct link to WiFi and a router.
	Direct Link Only	Only devices connected to the WiFi of the receiver are allowed to connect.
	Via Router Only	WiFi of the receiver is disabled and only connections from the existing network are allowed.
Fixed Host	Not used. (※1)	-
Upgrade	To access the Internet and upgrade to the latest firmware. (⇒P.26)	After reboot
WiFi Diagnostic Tool	By selecting and setting "Auto Channel Selection", you can change the WiFi channel to a less congested channel. This function can only be used when "Legacy WiFi mode" is OFF.	After reboot
Central Management System	Not used. (※1)	-
Reset to Factory Default	To reset the setting value to factory default. ※Device name and My screen setting will not be reset.	After reboot

※1 We do not guarantee the operation of these setting items. We do not guarantee the operation when the default values of these setting items are changed or when these setting items are used.

◆Connecting the receiver to the network




1. Establish a WiFi connection between your device and the receiver.
2. Access the Settings screen (Home menu) and select the "Network Management" menu. (⇒P.23)
3. Select "Connect via 5G router" to display the "Internet" screen.

Click the Refresh button on the top right to display a list of available access points.

※ If there is no access point available, the list will not be displayed. For 5GHz band, only W52 (36, 40, 44, 48) will be displayed as connectable channels. If you want to display a list of available access points for 2.4GHz band, set the Legacy WiFi mode to ON. If you want to connect to a stealth access point that does not appear on the list, prepare one or more access points that are not stealth access points. They will be displayed on the list as connectable access points.

4. Select the connection destination and enter the password.

※ If you want to connect to an access point not displayed in the list, select "Add network" on the "Internet" screen and enter the SSID manually.

5. When the connection is successfully established, an icon [] will be displayed on the top right of the Home screen, indicating that the receiver is connected to the network via a router.

※ If "Save WiFi setting" in Network management is set to ON, the receiver will basically automatically connect to the access point. However, if the receiver is disconnected from the access point while the input device is connected to the receiver via WiFi, the receiver may not reconnect. Disconnecting the WiFi connection between the receiver and the input device or restarting the receiver may improve the situation.

※ If an AP outputs multiple channels with a common SSID, the receiver may be connected to all channels.

■Connecting to the receiver via WiFi router (AP)

1. Connect your device to the network to which the receiver is connected.
2. Start the browser on your device and enter the Infrastructure IP address displayed at the bottom left of the Home screen in the address field to access the Settings screen of the receiver.

④ FAQ (Frequently Asked Questions)

Q. How do I initialize my receiver?

- A. Press and hold the reset button on the side for about 8 seconds or select "Reset to Factory default" from the "Admin settings" menu to perform initialization. Note that all settings except Device name and My screen setting will be reset to factory defaults.

Q. I forgot the admin password.

- A. Perform initialization. Note that all settings will be reset to factory defaults.

Q. I want to use 2.4GHz WiFi.

- A. By setting "Legacy WiFi mode" in the "Device management" menu to ON, the 2.4GHz WiFi is enabled.
- ※Note that turning this setting ON will degrade performance. With this receiver, 5GHz band and 2.4GHz band cannot be used at the same time.
 - ※The frequency band used is that of the device that was first connected to the receiver.
For this reason, if the receiver is set to connect to a 5GHz AP, it will automatically connect to the 5GHz AP at startup, and it will not connect to the 2.4GHz band.
In that case, perform initialization of the receiver or delete the connection settings to the AP.

Q. The content of online video distribution service cannot be projected.

- A. We do not guarantee the playback of content of all online video distribution services. Depending on the content of the online video distribution service, projection may not be possible.

Q. I want to change the channel in order to prevent wireless interference.

- A. The default setting for the WiFi channel is "Auto". You can change the communication channel between the input device and the receiver in case of direct connection from "Network management" → "WiFi channel". If the receiver is connected to an AP, the communication channel is automatically set to the channel of the AP.

Q. How do I update the firmware of the receiver?

- A. When a new firmware is available, an icon will be displayed on the top right of the Home screen. The purpose of new firmware is to correct defects or improve security or improve performance. Update the firmware as necessary.

The firmware update procedure: "Admin settings" → "Upgrade" → "OK"

When the progress bar reaches 100%, the receiver will restart. The update is now completed.

※Make sure to use the supplied AC adapter when you perform the firmware update.

※The receiver needs to be connected to an external network.

※Do not turn off the power until the update is completed.

Q. How do I turn off the power of the receiver?

- A. The receiver does not have a power switch, so disconnect the USB cable from the receiver or disconnect the AC adapter from the outlet.

Q. How do I change the settings such as SSID and password of receiver?

- A. Refer to P.14-P.25.

Q. Even after the initial setting of the receiver is completed, the setting menu is still displayed in English.

A. Depending on the country selected or the browser (IE or Edge) being used, the display language for the setting menu may remain in English. In that case, select the language you want to use from: "Device management" → "Language".

Q. What is the maximum distance the receiver can be used at?

A. The maximum distance to obtain the optimum projection quality will be 10 m.
The communication range may be shortened due to the performance of the output device and the interference of radio waves.

Q. Can I mute the audio?

A. You cannot turn off the audio from the receiver. Set the audio volume of the monitor or projector to which the receiver is connected, or the device that is mirrored to the receiver to 0, or set to mute.

Q. When I cast from the Chrome browser, the message "Available for specific video sites" appears and I cannot to do mirroring.

A. The receiver may not be connected to the Internet. Check if the port is disabled in your network settings.
In order to do mirroring using the Chrome browser, it is necessary to acquire time information from an NTP server.

Q. Is it possible to import or export setting information?

A. It is not possible to import or export setting information.

Q. I want to know the Mac address to connect the receiver to my network.

A. You can find this information in the "About Device" section of the Settings.

Q. The receiver sometimes cannot be detected by a computer or it is not possible to cast from a computer when I do screen mirroring between the receiver and computer via AP (network).

A. Communications between terminals may not be possible if AP functions such as AP isolation or privacy separators are affecting the network, or if L2 or L3 switches are used, or if the network is divided into segments. Check your network environment.

Q. When I do mirroring, black bars appear vertically or horizontally on the image and the image becomes smaller.

A. If the screen ratio of the computer and the monitor are different, black bars may appear on the screen. If the screen ratio of the monitor is 16:9, the resolution of the computer should also be set to 16:9 (e.g., 1920 x 1080) to display the image on the full screen. The screen may also be smaller depending on the computer's graphics board. Updating the graphics board or changing the settings may improve the situation.

Q. I connected the receiver to a 4K monitor with the resolution setting of the receiver set to "Auto", but the image is displayed in Full HD.

A. If HDMI negotiation cannot be performed during the start-up process of the receiver (for example, when the receiver is connected to a monitor after the receiver is turned on) the image will be displayed in Full HD. If the resolution is set to "Auto", connect a monitor before starting up the receiver so that HDMI negotiation can be performed. By setting the receiver's resolution setting to "Fixed", the resolution can be fixed regardless of the order in which they are started.

⑤ Troubleshooting

◆Symptom, possible cause, and remedy

Check the following items. If any abnormality is found, consult the dealer from whom you purchased this product or our nearest branch/office.

Symptom	Possible cause/ remedy
No image is displayed.	<ul style="list-style-type: none"> •The receiver is not connected to the HDMI input port of a display monitor or projector. •The AC adapter is disconnected from the wall outlet. •The USB cable is disconnected from the USB port of the receiver. •The USB cable is disconnected from the AC adapter. •If this problem occurred after changing the resolution of the receiver, restore the original resolution or set the resolution setting to "Auto", or initialize the receiver. •Display monitor or projector or device to be mirrored does not support HDCP. If any of them does not support HDCP, image output may not be possible.
It is not possible to connect the receiver to the network.	<ul style="list-style-type: none"> •The DHCP of the connected router is receiver or has a static IP address. Enable DHCP or set the IP setting of the receiver to fixed IP address. •Class B and C subnet mask is supported. •The proxy is set. •The "Connection" setting in "Admin settings" is set to "Direct Link Only". With this setting, the device cannot connect to the network. Change the setting. •Initialize the receiver.
It is not possible to do mirroring.	<ul style="list-style-type: none"> •Mirroring may not be possible depending on the security settings of the device. Change the security settings such as temporarily turning off the firewall settings.
Projected video is jerky and not smooth.	<ul style="list-style-type: none"> •The CPU of the device is not powerful enough. In order to project a screen with a lot of movement like a movie, compared to a video with little movement like a presentation, a high-spec device is required. •The network environment is not good enough. (For example, the wireless strength is weak.) Improve the network environment by changing the wireless channel of the WiFi access point or changing the layout of each device.
When the number of devices for simultaneous projection is increased, the projected image sometimes freezes.	<ul style="list-style-type: none"> •The network environment is not good enough. (For example, the wireless strength is weak.) Improve the network environment by changing the wireless channel of the WiFi access point or changing the layout of each device.
No audio is output.	<ul style="list-style-type: none"> •A monitor or projector that cannot output audio is used. •The audio volume of the monitor or projector is set to 0 or is set to mute. •The audio setting of the monitor or projector is not set to HDMI input. •The audio volume of the device to be mirrored is set to 0, or is set to mute.

Symptom	Possible cause/ remedy
The operation is not stable, such as the output image is distorted or the receiver restarts unintentionally.	<ul style="list-style-type: none"> •The power is supplied to the receiver from the USB port of a monitor or projector or other AC adapter than the supplied one. Be sure to use the supplied AC adapter.
The receiver does not appear in the list of connection destination.	<ul style="list-style-type: none"> •Miracast projection is in progress. During miracast projection other device cannot be connected and is not displayed in the list of connection destination. The device will be displayed in the list after the current miracast projection is disconnected. •"Hide SSID" is set to ON in "Device name" in "Device management". Change the setting or initialize the receiver.
Error message appears when entering the password.	<ul style="list-style-type: none"> •Wrong password has been entered. (For example, uppercase letter is used for lowercase letter or number "0" is used for alphabet "O".) Enter the password correctly.
IP address is not displayed in the Home screen.	<ul style="list-style-type: none"> •If the "Connection" setting in "Admin settings" is set to "Via router only", the Direct Link IP address will not be displayed. Change the setting. •If the "Connection" setting in "Admin settings" is set to "Direct link only", Infrastructure IP address will not be displayed. Change the setting.
Password is not displayed in the Home screen.	<ul style="list-style-type: none"> •If the "Connection" setting in "Admin settings" is set to "Via router only", the password will not be displayed. Change the setting. •"WiFi password" setting in "Network management" is set to "Hide password". Change the setting.
Error message appears on the screen.	<ul style="list-style-type: none"> •If you are using the USB port of a display monitor, projector, recording device, etc. for power supply, use the supplied AC adapter. •If the message "Wi-Fi Issue Detected Please restart system" appears on the screen after several reboots, restart the receiver after connecting the supplied AC adapter. If the symptom persists, Consult the dealer from whom you purchased this product or our nearest branch/office.
The receiver continues to reboot.	<ul style="list-style-type: none"> •If you are using the USB port of a display monitor, projector, recording device, etc. for power supply, use the supplied AC adapter. •If the receiver fails to operate normally, it may be rebooted as a recovery process. Wait until the Home screen appears normally.
Miracast connection fails or disconnects.	<ul style="list-style-type: none"> •If you use a computer that does not meet the hardware requirements, Miracasting to the receiver while the computer is connected to the AP via WiFi may cause the computer's WiFi module to overload, resulting in connection failure or disconnection. Disconnecting the WiFi connection of the computer to the AP or connecting the computer to the AP via wired LAN may improve the connectivity.

Symptom	Possible cause/ remedy
Airplay or Googlecast keeps disconnecting.	<ul style="list-style-type: none"> •When AP functions such as band steering function and auto channel selection function are enabled, mirroring may be disconnected if the channel of the connected receiver or computer is changed. •When you do screen mirroring via AP, mirroring may be disconnected due to DFS if the computer being mirrored is connected to a W53 or W56 channel in the 5GHz band. The computer should also be connected to a W52 channel for stable use. •The receiver is being used on a WiFi channel with a lot of interference. If the network bandwidth is narrow, the image quality may be degraded or delays may occur. •The problem may be improved by updating your Google browser (OS) to the latest version.
SSID is not displayed in the Home screen.	<ul style="list-style-type: none"> •"Hide SSID" is set to ON in "Device name" in "Device management". Change the setting or initialize the receiver.

⑥ Specifications

◆Hardware

Model name	ELMO Cast D15
Network standards	IEEE802.11a/b/g/n/ac By default, only 5GHz band can be used. The 2.4GHz band and 5GHz band cannot be used simultaneously.
Protocol	TCP / IP, SNMP
IP address setting	DHCP (Auto) / Manual IP address configuration
HDMI output resolution	4,096×2,160 (24P) ※2 3,840×2,160 (24/25/30P) ※2 1,920×1,080 (24/50/60P) 1,280×720 (50/60) 「720p」「1080p」progressive 60Hz display supported. 「720p」「1080p」interlace-method not supported.
Interface	Video output : HDMI1.4 Power : USB Type C
WiFi	For 5GHz band: W52(36,40,44,48ch) ※For 5GHz band, W53 and W56 channels cannot be used. ※A computer or smartphone that can connect to 5GHz band WiFi is required to use receiver or change its settings. By changing the setting of receiver from such computer or smartphone, receiver can also be used in 2.4GHz band.
Power supply	USB power supply (5V / 1.5A) For stable operation, do not connect the receiver to the USB port of a display monitor or projector or recording device. Use the supplied AC adapter.
Operating temperature	0~40℃
Power consumption	In standby status : 3W In projection : 6W
External dimensions	receiver : L97×W32×H11mm (HDMI connector not included.) Package box : L134×W80×H72mm
Weight	receiver : 120g Receiver + package box + accessories : 254g

※2 Video files such as mirroring video files (the operation screen of a computer or smartphone) is will be displayed on display monitor at a maximum resolution of 1080p (1920x1080) after being scaled.

◆System requirements

OS	Recommended conditions	Recommended conditions of hardware
iOS device	iOS10 or later	Recommended model : iPhone 5 or later iPad 4th generation or later iPad mini 2 or later
Android device	Android4.4 or later	-
Windows PC	Windows 10 or later	CPU : Intel Core i5 (2GHz or higher processor) RAM : 2GB or higher (8GB or higher recommended)
Macintosh	Mac OS 10.11 or later	CPU : Intel multi-core processor RAM : 2GB or higher (8GB or higher recommended) Disk space : more than 300MB empty space
Chrome OS device	All Chrome OS	Computer with Chromebook or ChromeOS installed

※Compliant with Airplay and Miracast.

Note) Linux not supported.

※About Airplay: We do not guarantee the same performance as Apple TV.

※If you use Miracast for image projection, split screen display is not possible.

※The supported OS may change due to product updates.

※We do not guarantee the operation on the original OS based on the above OS.

※Even in non-compatible OS such as windows7, casting may be possible with Chrome browser.

※By default, only 5GHz band can be used. However, you can connect to a 2.4GHz Wi-Fi network by setting "Legacy WiFi mode" in the "Device Management" menu to ON.

■ Trademarks and licenses

ELMO is the registered trademark of TECHNO HORIZON Co., Ltd.

Apple TV, Airplay, iPhone, iPad, Mac OS, and Macintosh are registered trademarks of Apple Inc. in the U.S. and other countries. iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

Android, Chromecast, Chrome OS, Chromebook, are trademarks or registered trademarks of Google Inc.

Miracast is a registered trademark of Wi-Fi Alliance.

Windows is a registered trademark of Microsoft Corporation in the U.S. and other countries.

HDMI is a registered trademark of HDMI Licensing Administrator, Inc.

All other company and product names described in this manual are trademarks or registered trademarks of their respective companies.

Attention

- This product is designed to be used in industrial environment. If it is used in a residential area or in an adjacent area thereto, harmful interference to radio or television reception may occur.

テクノホライゾン株式会社

〒457-0071

愛知県名古屋市南区千竈通二丁目 13 番地 1

<https://www.elmo.co.jp>

OVERSEAS SUBSIDIARY COMPANIES

ELMO USA CORP.

☐ Headquarters
6851 Jericho Turnpike
Suite 145
Syosset, NY 11791
Tel. (516) 501-1400
Fax.(516) 501-0429
E-mail : elmo@elmousa.com
Web : <https://www.elmousa.com/>

ELMO Europe SAS

☐ Headquarters
Tour Voltaire
1 Place des Degres
92800 Puteaux France
Tel. +33 (0) 1 74 54 49 80
E-mail : info@elmoeurope.com
Web : <https://www.elmoeurope.com/>

☐ German Branch
Monschauerstr. 1
40549 Düsseldorf
Tel. 49 (0) 211 9157 2725
Fax. +49 (0) 211 544756 60
E-mail : info@elmo-germany.de
Web : <https://www.elmoeurope.com/de/>

ESCO Pte Ltd

Singapore(HQ)
6 Harper Road, #06-08, Leong Huat
Building, Singapore 369674
+65 6744 3100
+65 6743 3343 – Customer Service
marketing@elmo sea.com

TECHNO HORIZON CO., LTD.

2-13-1, Chikamatori Minami-ku
Nagoya, 457-0071, Japan