

EZCast Pro Box II

Advanced Web Setting Manual



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Introduction

Thank you for choosing EZCast Pro Box II, the most advanced casting equipment powered by EZCast Pro.

EZCast Pro Box II can support up to four mobile devices as input sources, casting the screen content to one external screen simultaneously. Also, EZCast Pro Box II supports Windows, macOS, Android, and iOS, to truly realize the idea of BYOD.

Configure your EZCast Pro Box II via Web Browser

With EZCast Pro Box II, user may configure their device via a web browser interface. Based on different needs and usage scenarios, in EZCast Pro Box II Web Settings sections, customers may modify settings including output resolution, preferred language, max connections, etc.

Connect to EZCast Pro Box II



Please follow the instructions below to connect your phone, tablet, or laptop to EZCast Pro Box II. We provide user with the following

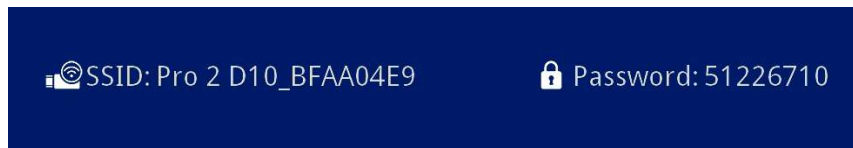
methods for connection: Direct Connection, Through Wi-Fi or Through Router.

Connect via Direct Connection

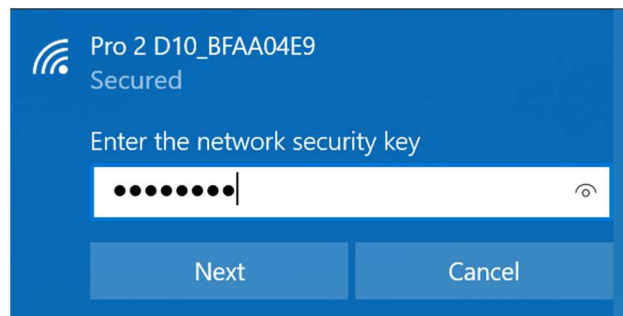
- 1.1 Connect EZCast Pro Box II to an external USB power supply.
- 1.2 Connect EZCast Pro Box II to an external display via HDMI port.
- 1.3 Once the EZCast Pro Box II is successfully connected, the external display will show the landing page below.



- 1.4 Please see the upper middle of the landing page for the SSID and Password.



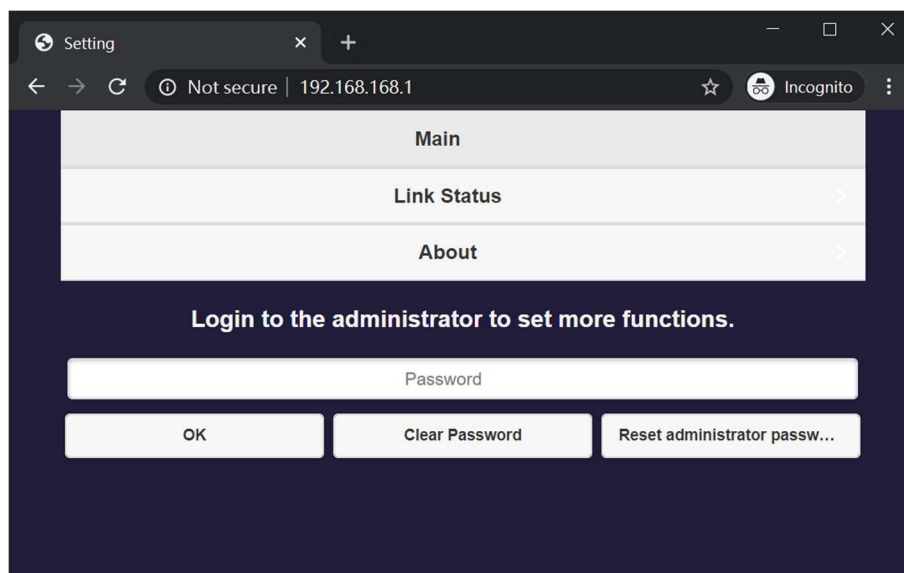
- 1.5 Find the SSID on the connecting devices' Wi-Fi list and enter the password to connect to EZCast Pro Box II.



- 1.6 Once the connection is established, enter the IP address on the bottom left corner of the landing page to your browser's URL bar.



- 1.7 As soon as the page is loaded, the browser will enter the Web Setting Home Page shown as below.



Connect via External Wi-Fi or Router

- 2.1 Confirm the connection by checking the Wi-Fi icon on the upper right of the landing page. The icon will light up as EZCast Pro Box II connects to external Wi-Fi.

Via External Wi-Fi



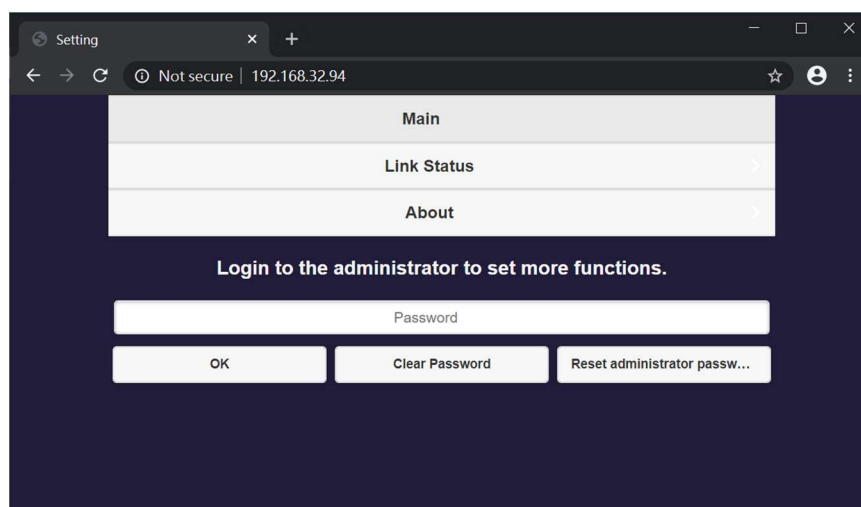
- 2.2 Enter the IP address on the bottom left corner of the landing page to your browser's URL bar. Please be advised that EZCast Pro Box II and the connecting device must connect to the same network.

Direct Link IP: 192.168.168.1
Infrastructure IP: 192.168.32.94

(Since you have connected EZCast Pro Box II to an external Wi-Fi network, use Infrastructure IP to access. If directly linking to EZCast Pro

Box II's Wi-Fi, access it through 192.168.168.1.)

- 2.3 Web Setting Home Page should appear in the browser.



Web Setting Home Page

EZCast Pro Box II provides two levels of access: Non-Admin and Admin. Please log in as administrator for higher level of access.

1 EZCast Pro Box II Settings

1.1 Non-Admin User

Basic access to Link Status and About.

Main		
Link Status		
About		
Login to the administrator to set more functions.		
Password		
OK	Clear Password	Reset administrator passw...

1.2 Admin User

Higher level of access to advanced features and settings.

Main
Link Status >
Conference Control >
Device Management >
Network Management >
Admin Setting >
Reboot >
About >
Already logged in to the administrator.
Logout

Login as Admin

- 1.1 Login as the administrator using your passwords. The default password is **000000**.

Login to the administrator to set more functions.

Default Password: 000000

OK

Clear Password

Reset administrator passw...

- 1.2 For better security, please change the password after login.

Admin Password

Please modify the initial password.

Change Admin Password

New Password

.....

×

Confirm Password

.....

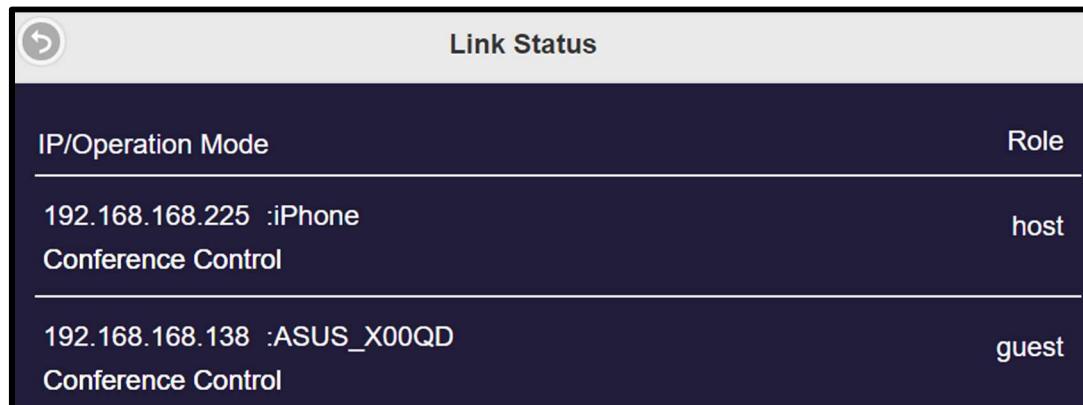
×

Apply

Start Configuring EZCast Pro Box II

1 Link Status

Displays current link status of EZCast Pro Box II, including device names, device IP addresses.



IP/Operation Mode	Role
192.168.168.225 :iPhone Conference Control	host
192.168.168.138 :ASUS_X00QD Conference Control	guest

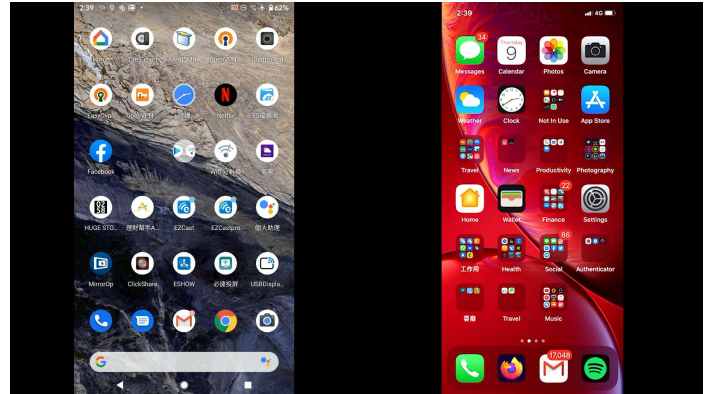
- Host: The first device connecting to EZCast Pro Box II will be assigned as host.

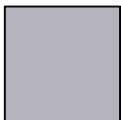
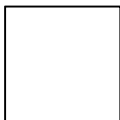
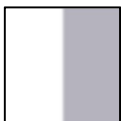
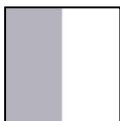
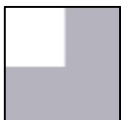

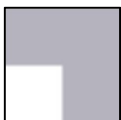
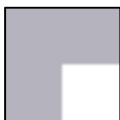
The host user can decide whether a guest user has access to cast via EZCast Pro Box II.

- Guest: The device connecting to EZCast Pro Box II that isn't a host.

2 Conference Control

With conference control, admin user can assign each device to specific locations on the external monitor.



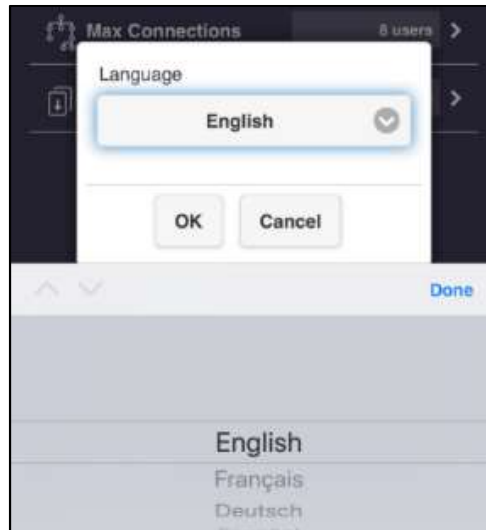
Block Casting 	Full Screen 
Left Half 	Right Half 
Upper Left 	Upper Right 
Bottom Left 	Bottom Right 

3 Device Management

Please see Device Manage for the options to configure Language, Resolution, Max Connections, etc.

3.1 Language:

Please select the applicable language.



3.2 Device Name:

Rename, hide or turn off SSID.

New SSID

New setting will take effect after reboot!

Pro 2 D10_BFAA04E9

Hide SSID

Off

Turn Off SSID

Off

OK

Cancel

3.2.1 Hide SSID:

Hide SSID from the landing page. **Please keep a record of your original SSID in case you need it later.**

3.2.2 Turn Off SSID:

Deactivate the SSID function. **Please make sure the device is connected online via LAN.**

3.3 Resolution:

Please select the applicable resolution for your usage.
EZCast Pro Box II supports up to 4K at 24P frame rate,
while the defaults output resolution is 1920 x 1080_60P.

3.4 Display mode:

1920x1080_60P	<input type="radio"/>
3840x2160_24P	<input type="radio"/>
3840x2160_25P	<input type="radio"/>
3840x2160_30P	<input type="radio"/>
4096x2160_24P	<input type="radio"/>
Auto	<input checked="" type="radio"/>

EZCast Pro Box II supports the following Display modes:

3.4.1 Fit to screen:

Fit to screen	<input checked="" type="radio"/>
Zoom to screen	<input type="radio"/>

New setting will take effect after reboot!

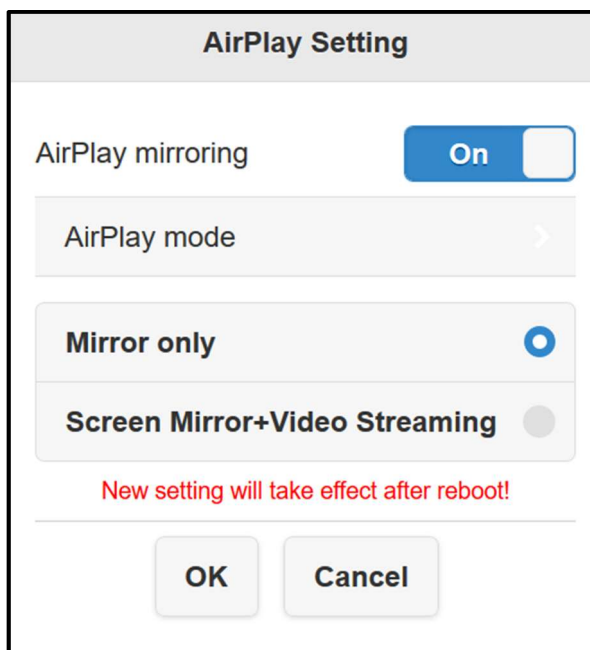
EZCast Pro Box II will keep video at the original aspect ratio.

3.4.2 Zoom to screen:

EZCast Pro Box II output display will be stretched, and the aspect ratio changed, to fit the whole screen.

3.5 AirPlay mode:

Screen mirroring via AirPlay for iOS and macOS users.



3.5.1 AirPlay mirroring

ON:

Enable AirPlay.

3.5.2 AirPlay mirroring OFF:

Disable AirPlay.

3.5.3 Mirror only:

Supports screen mirror mode only.

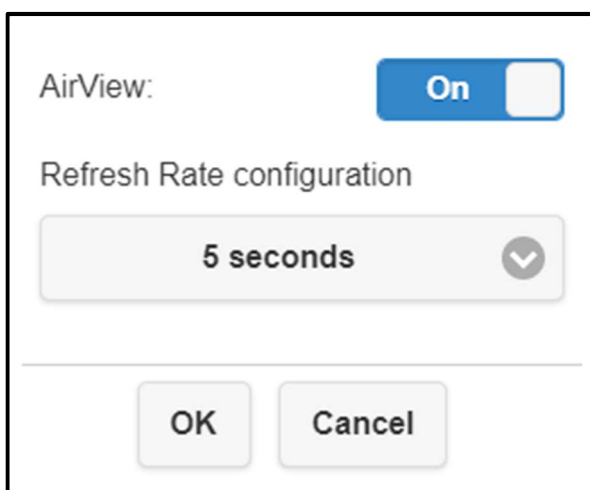
3.5.4 Screen Mirror + Video

Streaming:

Supports both mirror and streaming.

3.6 AirView:

Allows users to receive EZCast Pro Box II output on their connected devices.



3.6.1 AirView ON:

Turn on AirView.

3.6.2 AirView OFF:

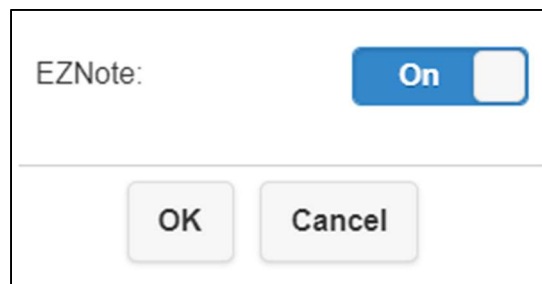
Turn off Airview.

3.6.3 Refresh Rate configuration:

Set refresh rate based on your preferences. **The minimum setting is 5 seconds.**

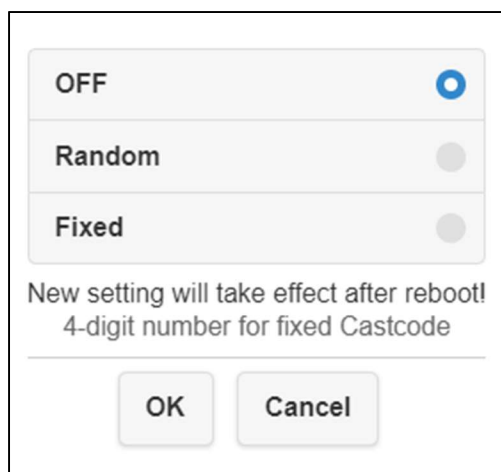
3.7 EZNote:

Users could take note on EZCast Pro app.



3.8 Castcode control:

Use Castcode to prevent unauthorized casting.



3.8.1 OFF:

Deactivate Castcode.

3.8.2 Random:

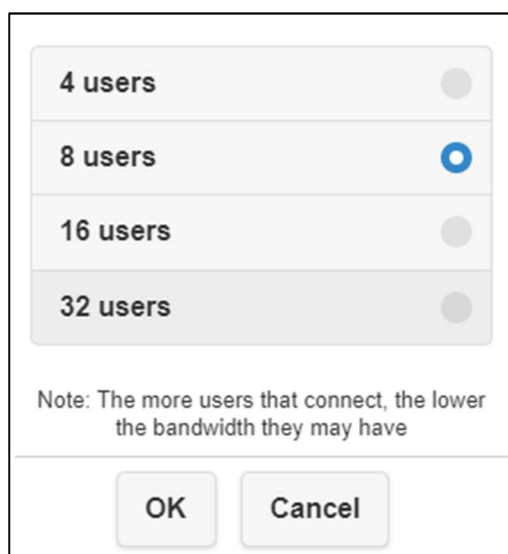
Random generated Castcode

3.8.3 Fixed:

Set fixed Castcode.

3.9 Max Connections:

Please select the applicable maximum connections for your usage.

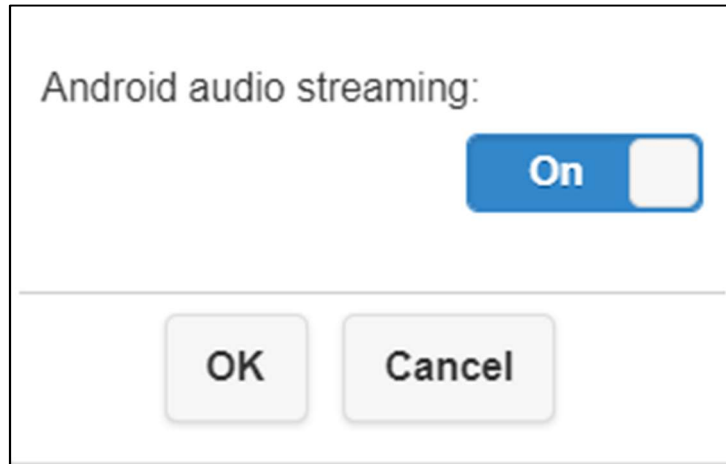


EZCast Pro Box II supports up to 32 users and the default maximum number of connections is 8 users.

Please be advised that an increase in number of connections may lower the network bandwidth for individual devices.

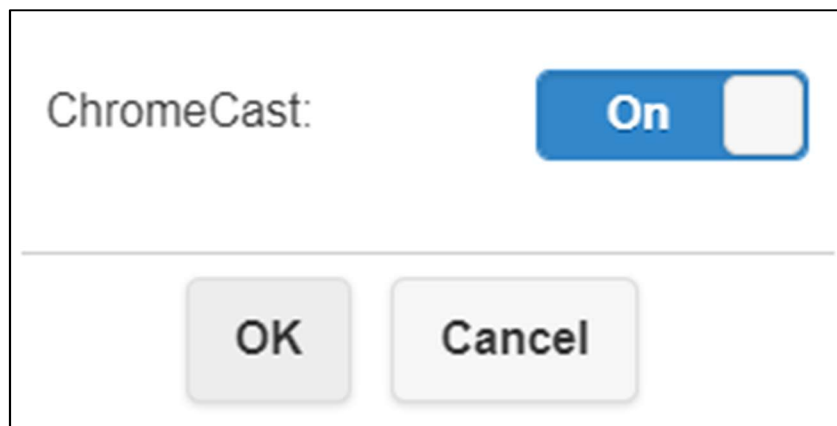
3.10 Android audio streaming:

Enable Android users to cast video and audio to the external display. **Please be advised that the default setting of Android audio streaming is OFF.**



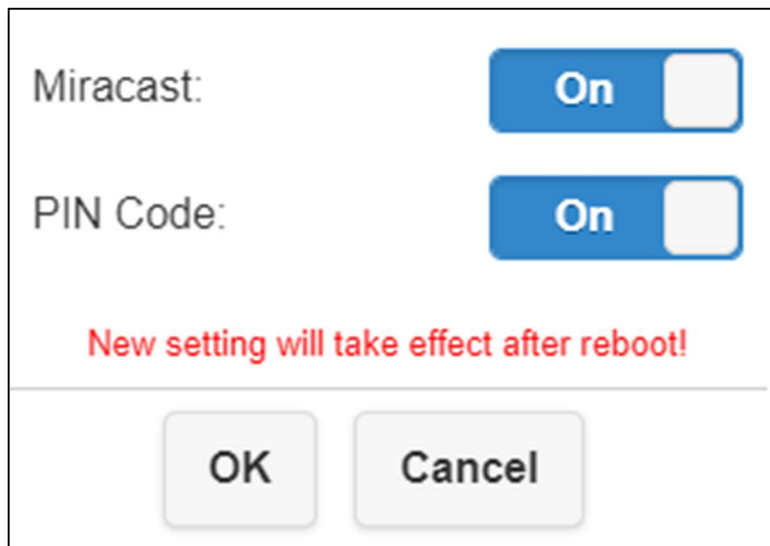
3.11 ChromeCast:

Direct casting via Chromecast for Android, Chrome browser. **Please be advised that when casting via Chromecast, the EZCast Pro Box II must connect to the internet.**



3.12 Miracast:

Direct casting via Miracast for Windows, Android users.



A dialog box for Miracast settings. It contains two rows: 'Miracast:' and 'PIN Code:'. Each row has a blue toggle switch with the word 'On' on it. Below these is a red text message: 'New setting will take effect after reboot!'. At the bottom are two buttons: 'OK' and 'Cancel'.

3.12.1 Miracast ON:

Turn on Miracast.

3.12.2 Miracast OFF:

Turn off Miracast.

3.12.3 PIN Code ON:

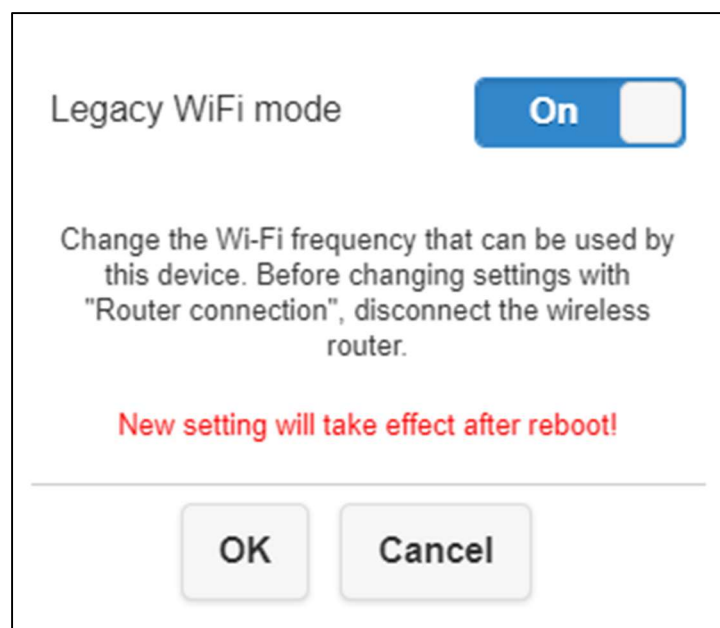
Enter PIN Code to connect.

3.12.4 PIN Code OFF:

Users won't need to enter PIN Code for Miracast connections.

3.13 Legacy Wi-Fi mode:

Enable user to connect EZCast Pro Box II to legacy wireless Wi-Fi routers. Please be advised that the default setting of Legacy Wi-Fi mode is OFF.



A dialog box for Legacy WiFi mode settings. It contains a row with 'Legacy WiFi mode' and a blue toggle switch with the word 'On' on it. Below this is a paragraph of text: 'Change the Wi-Fi frequency that can be used by this device. Before changing settings with "Router connection", disconnect the wireless router.' Below the text is a red text message: 'New setting will take effect after reboot!'. At the bottom are two buttons: 'OK' and 'Cancel'.

4 Network Management

Connect EZCast Pro Box II to the internet via external Wi-Fi.
For security reasons, **please make sure that the Wi-Fi you wish to connect is 5GHz and encrypted.**

4.1 Connect to 5GHz Wireless Access Point:

Once the device is connected to EZCast Pro Box II, enter the Wi-Fi password to connect to the external Wi-Fi.

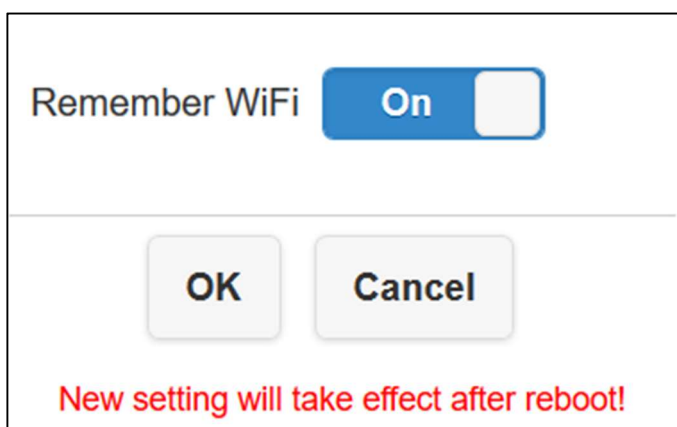
A dialog box for connecting to a Wi-Fi network. It has a title bar with a close button (X). The dialog contains two input fields: 'SSID' with the text 'Actions Taipei 5G' and 'Password' with masked characters '*****'. At the bottom, there are three buttons: 'OK', 'Cancel', and 'Forget'.

The list below contains the Wi-Fi security certification EZCast Pro Box II supports:

- ✓ WPA/WPA2
- ✓ 802.1xEAP:
PEAP, PEAP2 (MSCHAPv2),
TLS

4.2 Remember Wi-Fi:

Remember the connected devices after rebooting.

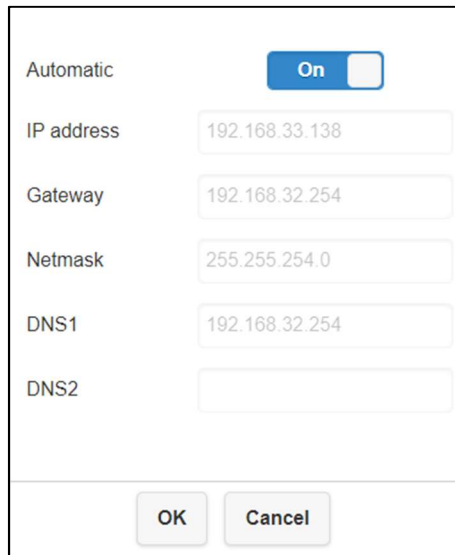
A dialog box for the 'Remember Wi-Fi' setting. It features a toggle switch labeled 'Remember WiFi' which is currently set to 'On'. Below the toggle are two buttons: 'OK' and 'Cancel'. At the bottom, a red text message reads 'New setting will take effect after reboot!'.

4.2.1 Remember Wi-Fi ON:
Remember Wi-Fi password.

4.2.2 Remember Wi-Fi OFF:
Clear Wi-Fi password after
disconnecting.

4.3 Wi-Fi IP Setting:

Configure Wi-Fi network, including IP address, Gateway, Netmask, DNS, etc.

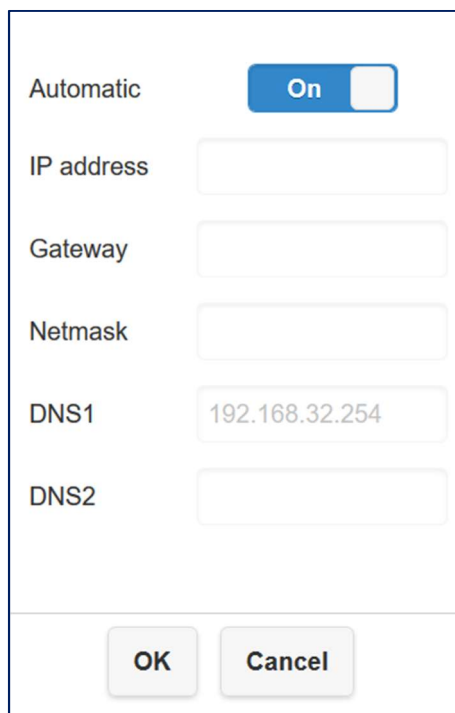


A dialog box for configuring Wi-Fi IP settings. It features a toggle switch for 'Automatic' which is currently turned 'On'. Below this are input fields for 'IP address' (192.168.33.138), 'Gateway' (192.168.32.254), 'Netmask' (255.255.254.0), 'DNS1' (192.168.32.254), and 'DNS2' (empty). At the bottom are 'OK' and 'Cancel' buttons.

Automatic	<input checked="" type="checkbox"/> On
IP address	192.168.33.138
Gateway	192.168.32.254
Netmask	255.255.254.0
DNS1	192.168.32.254
DNS2	
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

4.4 LAN IP Setting:

Configure LAN network, including IP address, Gateway, Netmask, DNS, etc.

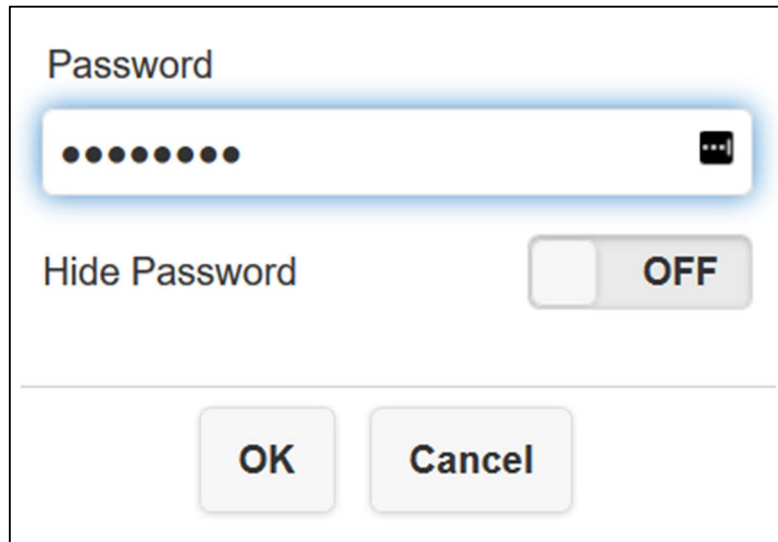


A dialog box for configuring LAN IP settings. It features a toggle switch for 'Automatic' which is currently turned 'On'. Below this are input fields for 'IP address' (empty), 'Gateway' (empty), 'Netmask' (empty), 'DNS1' (192.168.32.254), and 'DNS2' (empty). At the bottom are 'OK' and 'Cancel' buttons.

Automatic	<input checked="" type="checkbox"/> On
IP address	
Gateway	
Netmask	
DNS1	192.168.32.254
DNS2	
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

4.5 Wi-Fi Password:

Change or hide the Wi-Fi connection password on the landing page.

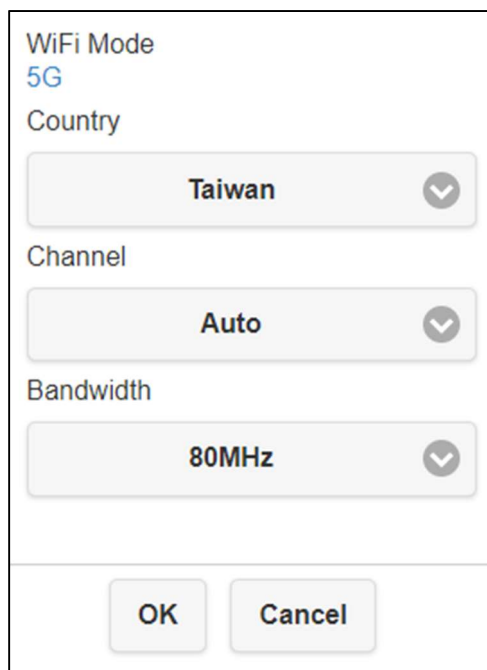


A dialog box titled "Password" with a text input field containing 10 dots and a toggle switch labeled "Hide Password" set to "OFF". At the bottom are "OK" and "Cancel" buttons.

4.6 Wi-Fi Channel:

Set up EZCast Pro Box II's Wi-Fi Channel.

Please be advised that users cannot configure the Wi-Fi Channel while EZCast Pro Box II is connected to external internet.



A configuration screen for Wi-Fi settings. It includes a "WiFi Mode" section with "5G" selected, and three dropdown menus for "Country" (Taiwan), "Channel" (Auto), and "Bandwidth" (80MHz). At the bottom are "OK" and "Cancel" buttons.

4.6.1 Country:

Please select the applicable country/region for the appropriate 5GHz spectrum policy

4.6.2 Channel:

For better Wi-Fi performance, please select available Wi-Fi channel.

4.6.3 Bandwidth: Please select applicable bandwidth to avoid wireless interference.

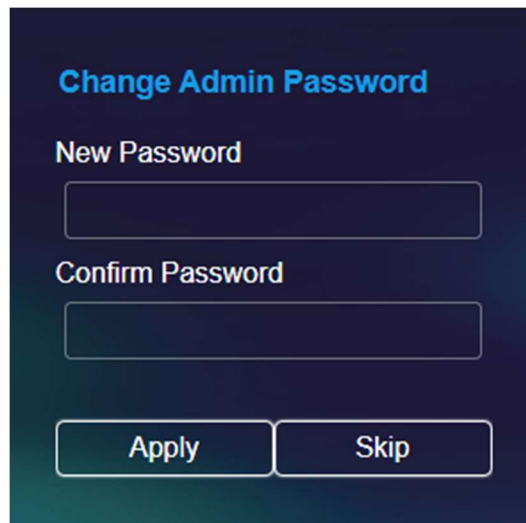
5 Admin Setting

Admin Setting allows individuals with higher access to customize EZCast Pro Box II's network and features.

5.1 Admin Password:

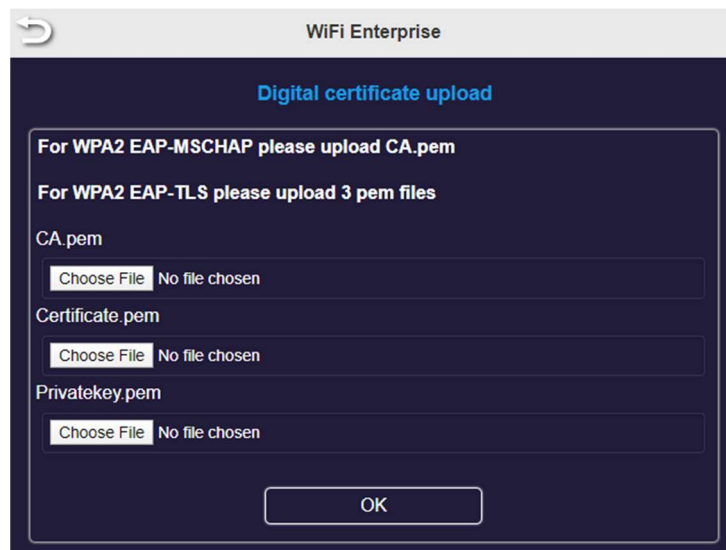
Change the Admin password for better security.

5.2 Wi-Fi Enterprise:



A screenshot of a web interface titled "Change Admin Password". It features two input fields: "New Password" and "Confirm Password". Below these fields are two buttons: "Apply" and "Skip". The background is a dark blue gradient.

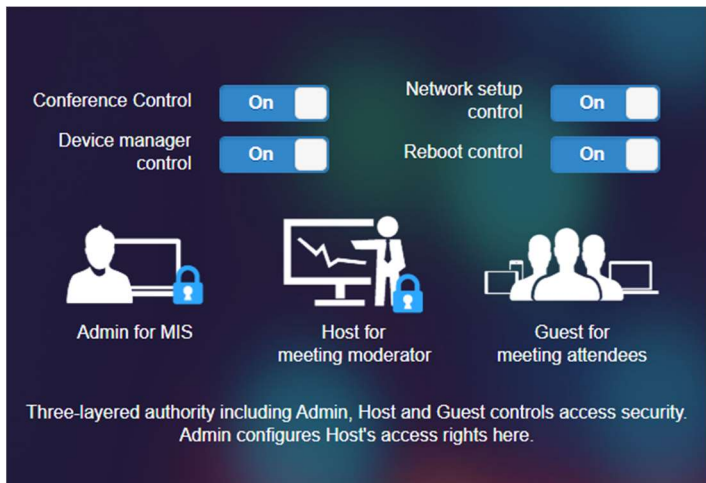
Available for higher level of access authorization to upload Digital certificates.



A screenshot of a web interface titled "WiFi Enterprise" with a sub-header "Digital certificate upload". It contains instructions for uploading certificates for WPA2 EAP-MSCHAP and WPA2 EAP-TLS. There are three file upload fields: "CA.pem", "Certificate.pem", and "Privatekey.pem", each with a "Choose File" button and "No file chosen" text. An "OK" button is at the bottom.

5.3 Host Authority:

Admin user can configure host user's access of web setting.



5.3.1 Conference Control:
Allows host to assign guest to specific casting block.

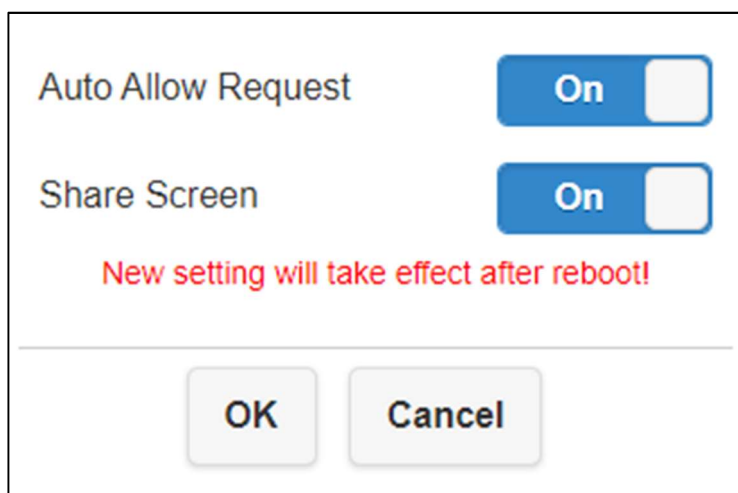
5.3.2 Device manager control:
Allows host to configure EZCast Pro Box II's device configuration.

5.3.3 Network setup control:
Allows host to configure EZCast Pro Box II's network.

5.3.4 Reboot control:
Allows host to reboot EZCast Pro Box II.

5.4 Host Control:

Controls all the casting devices and split-screen features.

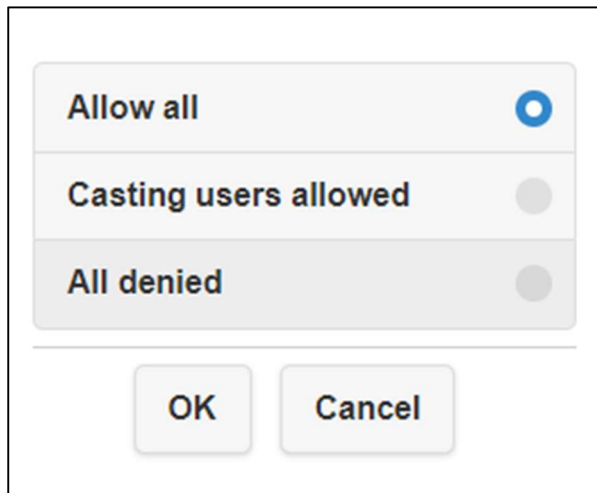


5.4.1 Auto Allow Request:
Once turned on, all the connecting devices can cast without the host transmitter's approval.

5.4.2 Share Screen:
Once turned on, the external display will be split into two or four displays based on the number of casting devices.

5.5 Internet Access control:

Allow the connecting device to get internet access via EZCast Pro Box II.

A dialog box titled "Internet Access control" with three radio button options: "Allow all" (selected), "Casting users allowed", and "All denied". Below the options are "OK" and "Cancel" buttons.

Allow all ☒

Casting users allowed ☐

All denied ☐

OK Cancel

5.5.1 Allow all:

All the connecting devices can get internet access.

5.5.2 Casting users allowed:

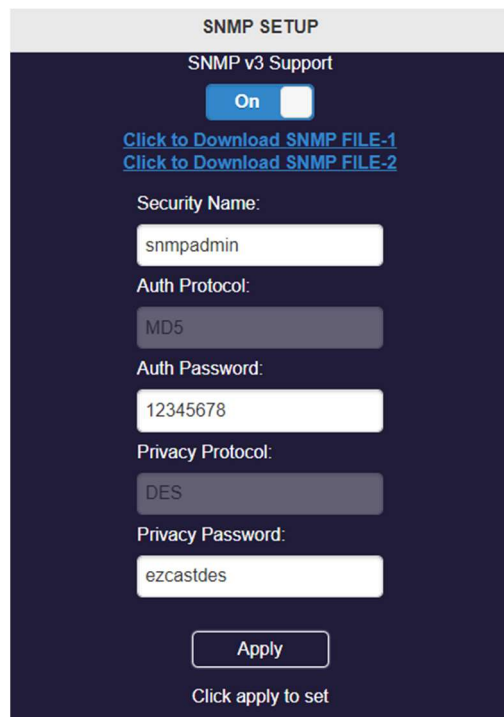
Only the casting devices can get internet access.

5.5.3 All denied:

Prohibit all devices to get internet access.

5.6 SNMP:

Network admin can integrate EZCast Pro Box II into the existing SNMP monitoring tool. **Please be advised that EZCast Pro Box II supports SNMP v3 protocol.**

A configuration screen titled "SNMP SETUP" for "SNMP v3 Support". It includes a toggle switch set to "On", two links to download SNMP files, and input fields for Security Name, Auth Protocol, Auth Password, Privacy Protocol, and Privacy Password. An "Apply" button and a note "Click apply to set" are at the bottom.

SNMP SETUP

SNMP v3 Support

On ☐

[Click to Download SNMP FILE-1](#)

[Click to Download SNMP FILE-2](#)

Security Name:

snmpadmin

Auth Protocol:

MD5

Auth Password:

12345678

Privacy Protocol:

DES

Privacy Password:

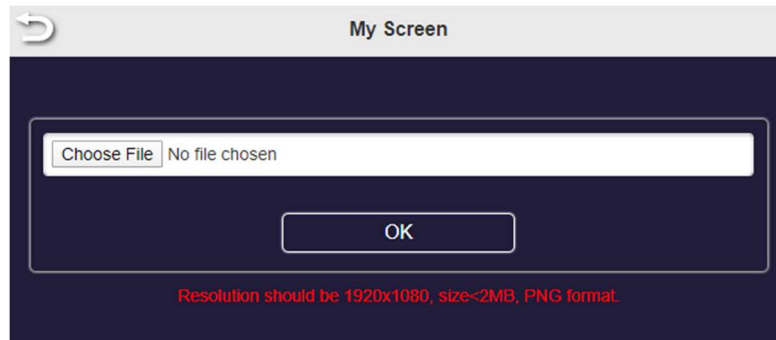
ezcastdes

Apply

Click apply to set

5.7 My Screen:

Replace the default image of landing page by uploading photos. **Please be advised that the image format must be PNG with 1920x1080 resolution and smaller than 2MB.**



5.8 Dynamic Wallpaper:

Users can customize the landing page with both video and image. **Please be advised that this function is designed for intermediate users.**

5.8.1 Dynamic ON/OFF:

Switch On/Off dynamic wallpaper.

5.8.2 Silent mode ON/OFF:

Switch On/Off sound for dynamic wallpaper.

5.8.3 URL/USB Disk:

Specify the URL that locates the JSON file. **Users can either store the JSON file at web server or USB Disk.**

5.8.4 Start after X mins:

Set idle time before activating dynamic wallpaper.

5.8.5 Stop when any transmitter is connected:

Stop dynamic wallpaper when a user connects to EZCast Pro Box II via EZCast Pro app.

5.8.6 Stop when a transmitter starts to mirror:
Stop dynamic wallpaper when a user is casting to dongle via EZCast Pro app.


Please follow the steps below to activate dynamic wallpaper:

- i. Write a JSON file according to the sample code below.
Please make sure you name the JSON file “wallpaper_file”.





```
{
  "slideshow": [
    {
      "image_url": "/media/usb0/usbwallpaper/01.jpg",
      "attribution": "Test image 1",
      "duration": 20,
    },
    {
      "url": "/media/usb0/usbwallpaper/01.mp4",
      "title": "Test video 1",
    },
  ],
  "next": ""
}
```

- The “image_url” class is for image file; The “url” class is for video file. **These links are pointing to specific files stored in a web-accessible folder or USB Disk.**
- Duration: How long will you picture stay on landing page.
- Title: The title of your video.

- ii. Deploy a web-accessible server. **Please consult with your IT administrator.** Or you could simply use USB Disk.
- iii. Save your JSON file to the web-accessible server or USB Disk that you created. **Please make sure you name the JSON file “wallpaper_file”.**

Name	Status
 wallpaper_file	

- iv. Save the image and video files to the web-accessible server or USB Disk that you created. **Please be advised that we only support MP4 and JPG files.**

Name	Status	Date modified	Type
 01.mp4		5/19/2020 6:28 PM	MP4 File
 01.jpg		5/19/2020 6:29 PM	JPG File

- v. For users who store the JSON in the web server, please copy the URL link of your json file to the “URL” section.

Dynamic Wallpaper

ON

Silent Mode

OFF

URL

USB Disk

URL

For users who store the JSON in the USB Disk, please make sure the JSON file is stored at the root folder of USB Disk: /media/usb0/wallpaper_file.json. Please note that you can not change this default path.

Dynamic Wallpaper

ON

Silent Mode

OFF

URL

USB Disk

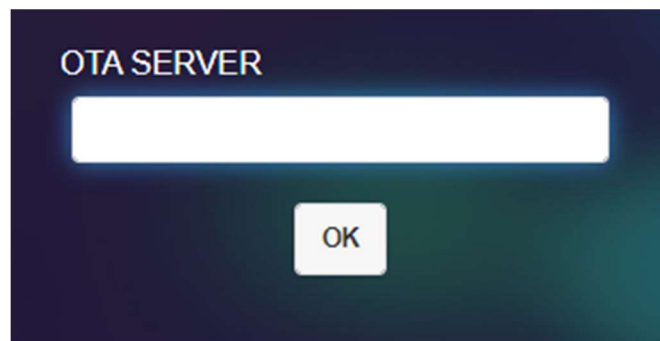
USB Disk

/media/usb0/wallpaper_file.json

5.9 OTA URL:

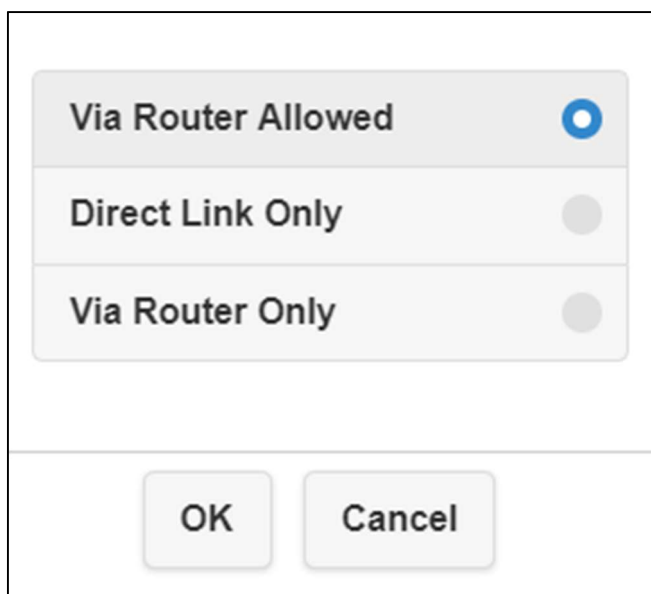
EZCast Pro Box II will check whether the OTA Server has deployed the latest firmware.

Please be advised that the function is specifically designed for distributors, resellers, and users having trouble upgrading firmware via internet. For end users, you can upgrade EZCast Pro Box II via Upgrade.



5.10 Connection:

Users can connect to EZCast Pro Box II via three ways:
Via Router Allowed, Direct Link Only, Via Router Only



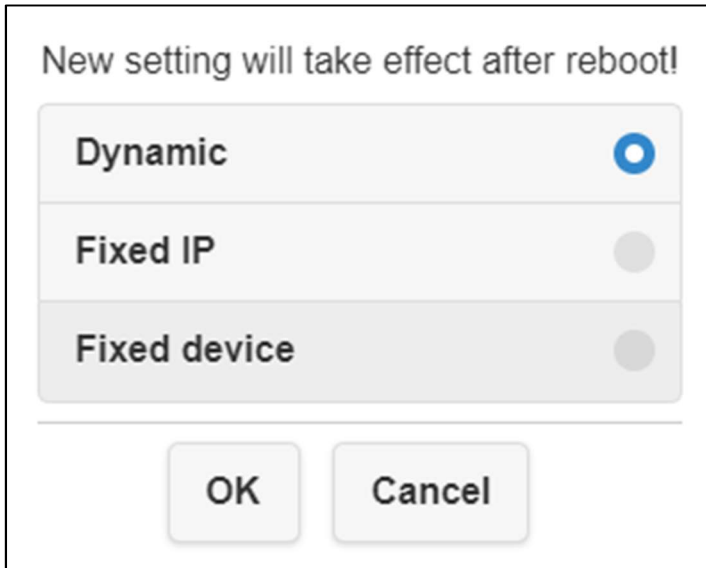
5.10.1 Via Router Allowed:
Devices can connect to EZCast Pro Box II either via router or direct link.

5.10.2 Direct Link Only:
Devices can connect to EZCast Pro Box II only via direct link.

5.10.3 Via Router Only:
Devices can connect to EZCast Pro Box II only via router.

5.11 Fixed host:

Set a specific device as fixed host



5.11.1 Dynamic:

The first connecting device will be recognized as host.

5.11.2 Fixed IP:

Assign a specific IP as fixed host.

5.11.3 Fixed device:

Assign certain device as fixed host.

5.12 Upgrade:

Upgrade your EZCast Pro Box II firmware to the latest version. **Please make sure EZCast Pro Box II is connected to the internet during the entire process.**

Please follow the steps below to upgrade firmware:

- i. Check whether there is a newer version available. If you see “New Version available!”, please click it.



If there is a newer version available, the upgrade notification will appear on the top right corner of the landing page.



- ii. You will see the local and server firmware versions. Please click “Upgrade”.

Local Version

1.6557.27

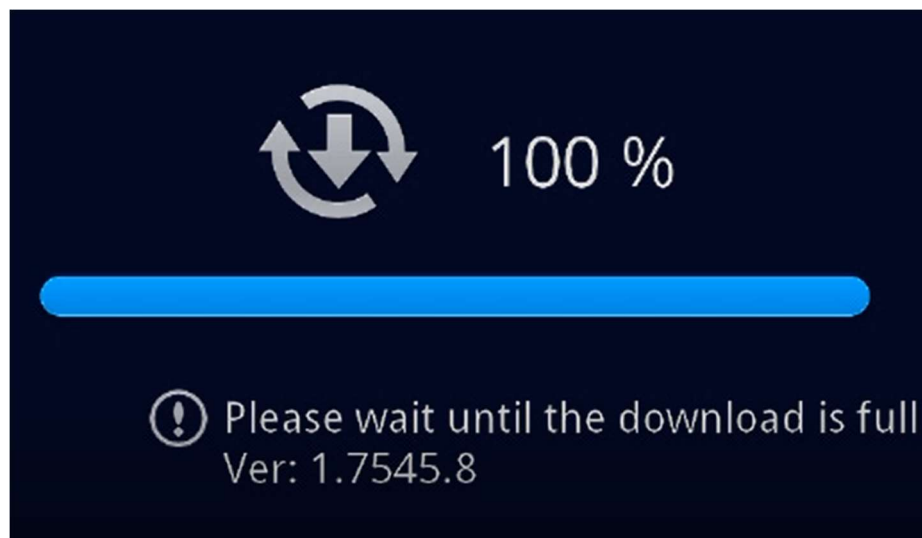
Server version

1.7545.8

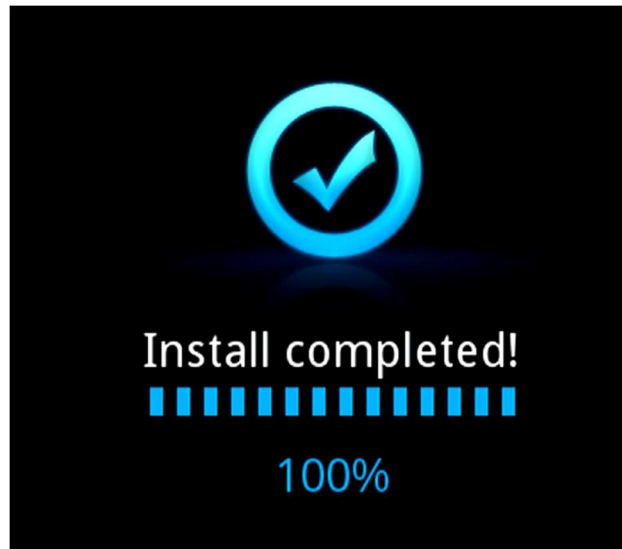
Upgrade

Cancel

- iii. The upgrade process will start automatically. DO NOT remove the power of EZCast Pro Box II during the upgrade process.



- iv. Please wait until the progress indicator shows 100%. EZCast Pro Box II will reboot once the upgrade process is finished.



5.13 Reset to default:

Reset EZCast Pro Box II to factory default. **Please note that all customized configurations will be reset.**

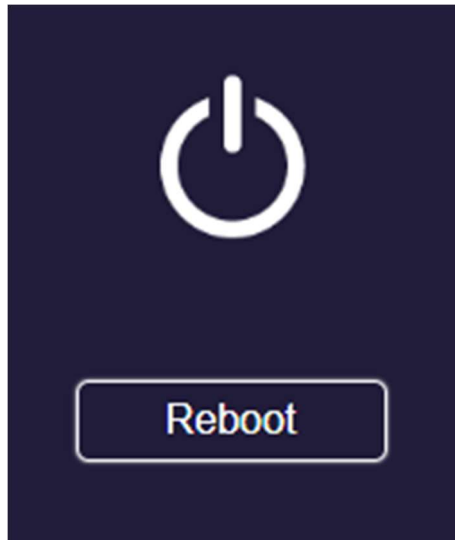
All the configurations will be lost! Are you sure?

YES

NO

6 Reboot

Reboot to apply setting changes.



7 About

Detail information of EZCast Pro Box II including SSID, Firmware Version, Wi-Fi Channel, etc.

