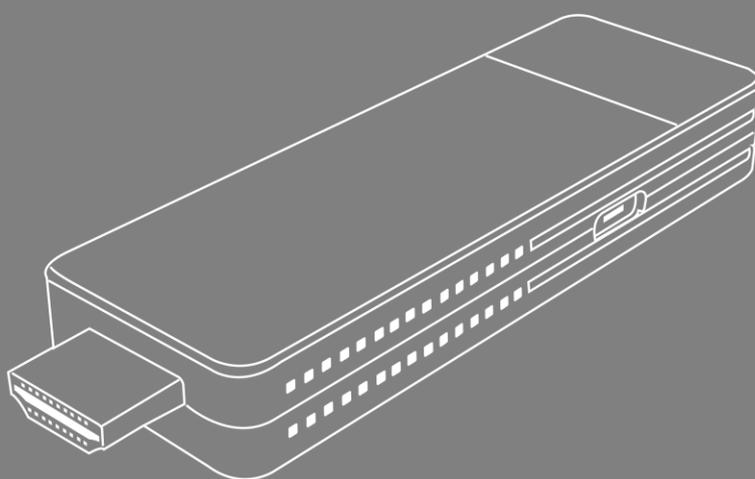


# UHDCast Pro



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# SAFETY

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## **FCC**

This device 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 in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected...
- Consult the dealer or an experienced radio/television technician for help.

### **Notice: Shielded cables**

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

### **Caution**

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this projector.

### **Operation Conditions**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.

### **Notice: Canadian users**

This Class B digital apparatus complies with Canadian ICES-003.

Remarque l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Declaration of conformity

- EMC Directive 2004/108/EC (including amendments)..
- Low Voltage Directive 2006/95/EC.
- R & TTE Directive 1999/5/EC

## WEEE



### Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

# INTRODUCTION

## Standard accessories



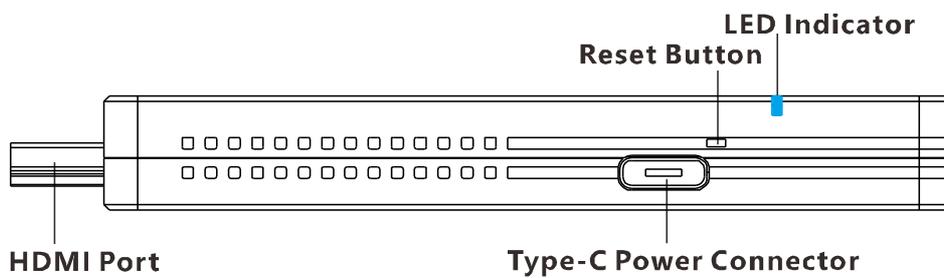
## Hardware Installation

HDMI connector: Can be connected to your projector.

Type-C Power Connector: Can be connected to the external 5V DC power supply to power on UHDCast Pro. Please be noted that the electric current should not less than 1.5A.

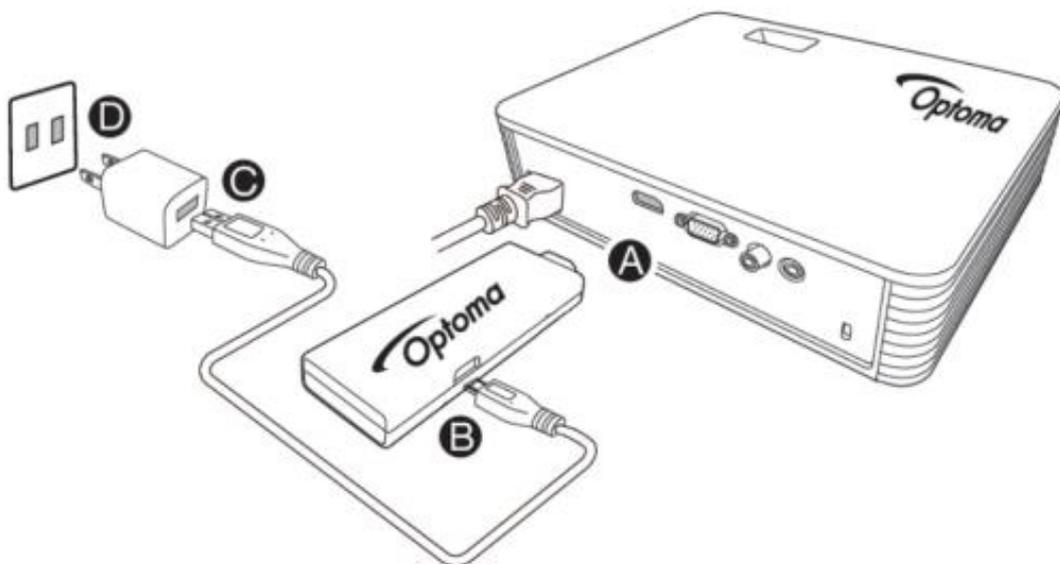
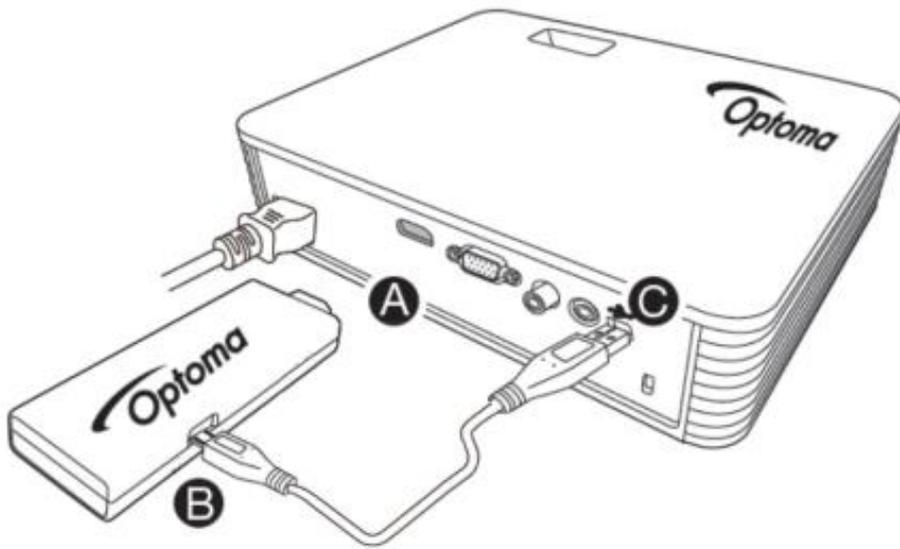
LED Indicator: The blue LED will be lighted after power on.

Reset Button: Press and hold for 6 seconds to reset to factory resets.



# SETUP AND INSTALLATION

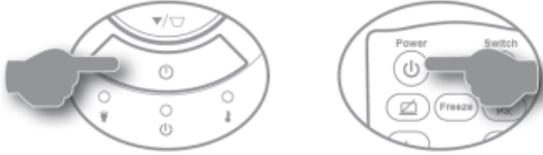
Step 1 - Connect the UHDCast Pro to the projector



\* Adapter is not included in the box

## Step 2 – Turn on projector and select HDMI source

a.



b.



The following screen will be displayed

1. Search for EZCast Pro on the App Store and Google Play. QR codes are provided for quick installation.

2. Wi-Fi settings showing 'UHD-Cast Pro\_XXXX' selected.

3. 'No device' screen with 'UHD-Cast Pro\_XXXXXXX' selected.

4. 'Sign in' screen.

5. 'Settings' screen with 'Available network' selected.

Thank you for choosing Optoma product. Please read our Terms and Conditions of Use, Privacy Policy and Cookies Policy on Optoma website to learn about our practices. By using our product, you are accepting the practices described herein. Please be advised that all applications preloaded on this product are provided by third party ("third-party apps") and this product may provide link to third-party apps. Using these third-party apps may allow third parties to collect or share data about you. We do not control these third-party apps and we are not responsible for their privacy statements. When you use third-party apps, we encourage you to read the privacy policy of every application you use.

### Step 3 – Download and install the EZCast Pro app



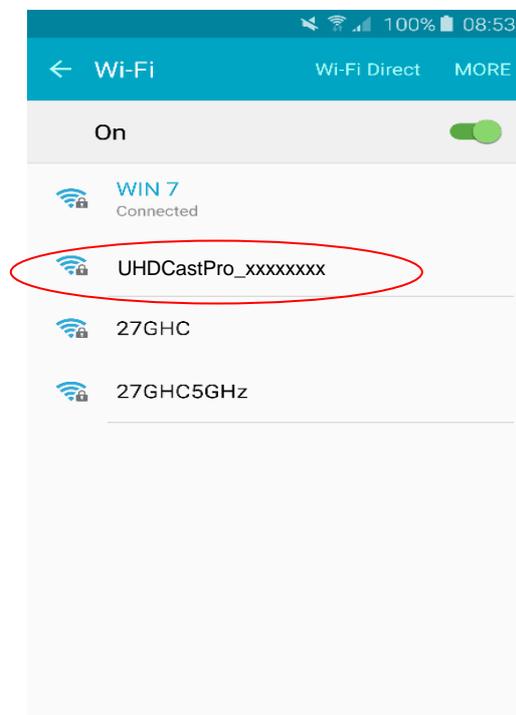
Android / iOS / Windows / OSX / Chrome OS

[www.optoma.com](http://www.optoma.com)

\*Supports Android 5 and above, iOS10 and above, Windows 7 and above, Mac OS 10.11 and after, Chrome OS

### Step 4 – Connect to wireless SSID (UHDCastPro\_xxxxxxx)

**Note:** You may be asked to enter a password. The password can be found in the top right corner of the projector screen

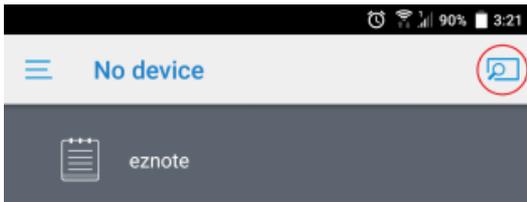


## Step 4 – Using the UHDCast Pro

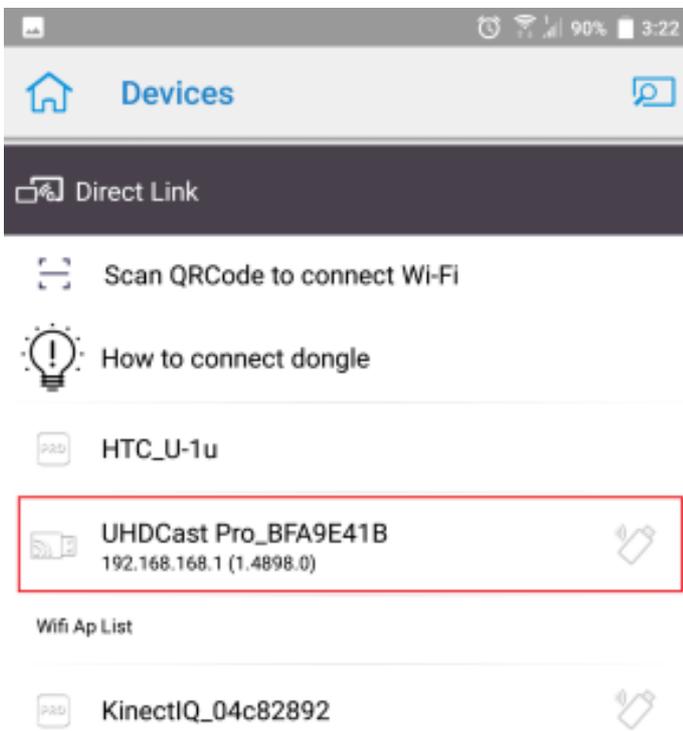
1. Open the app



2. Search Device

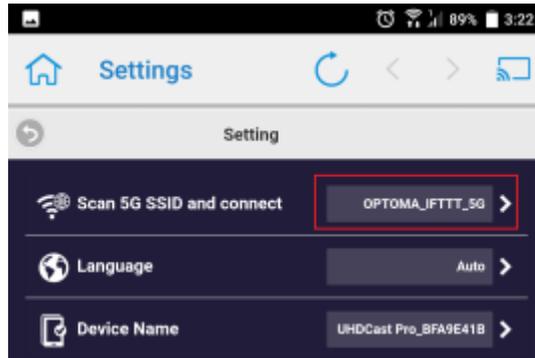
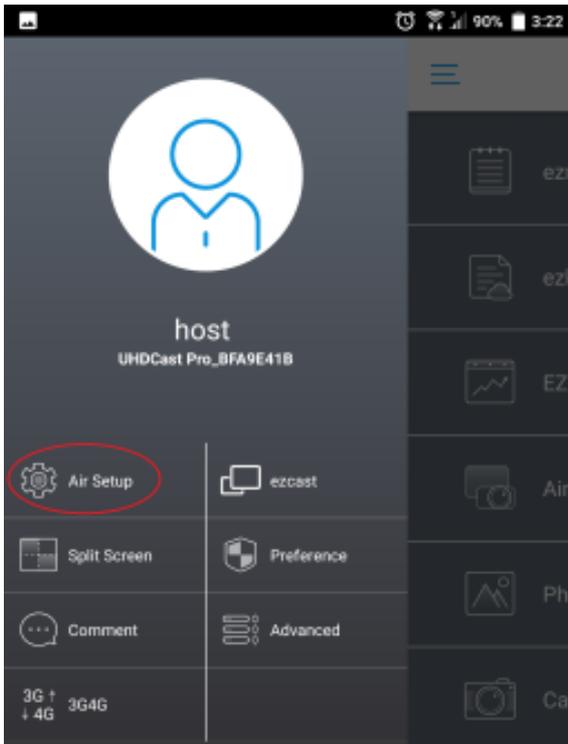


3. Connect to UHDCastPro\_xxxxxxx



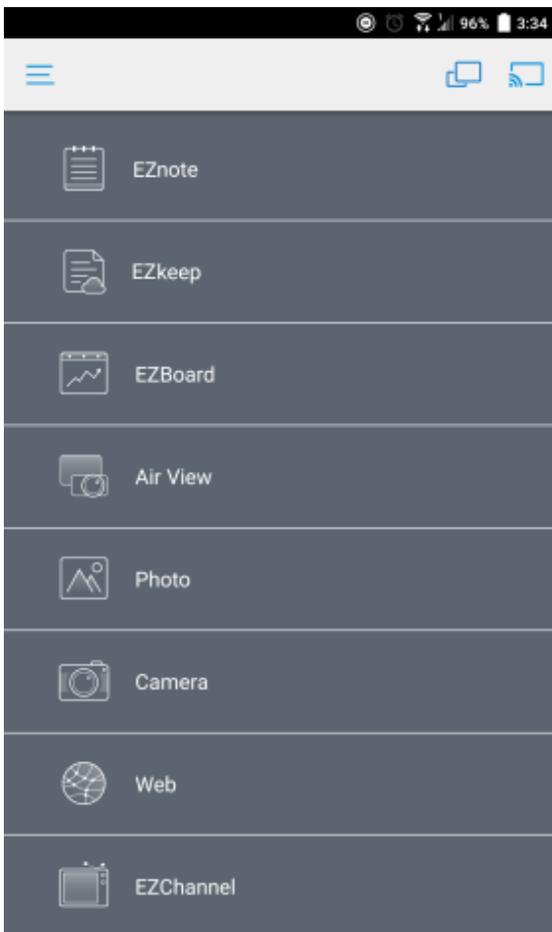
4. Connect to router

The first time you launch the app, there will be a pop up WiFi router list so that you can link with your WiFi router through UHDCast Pro device to keep internet surfing.

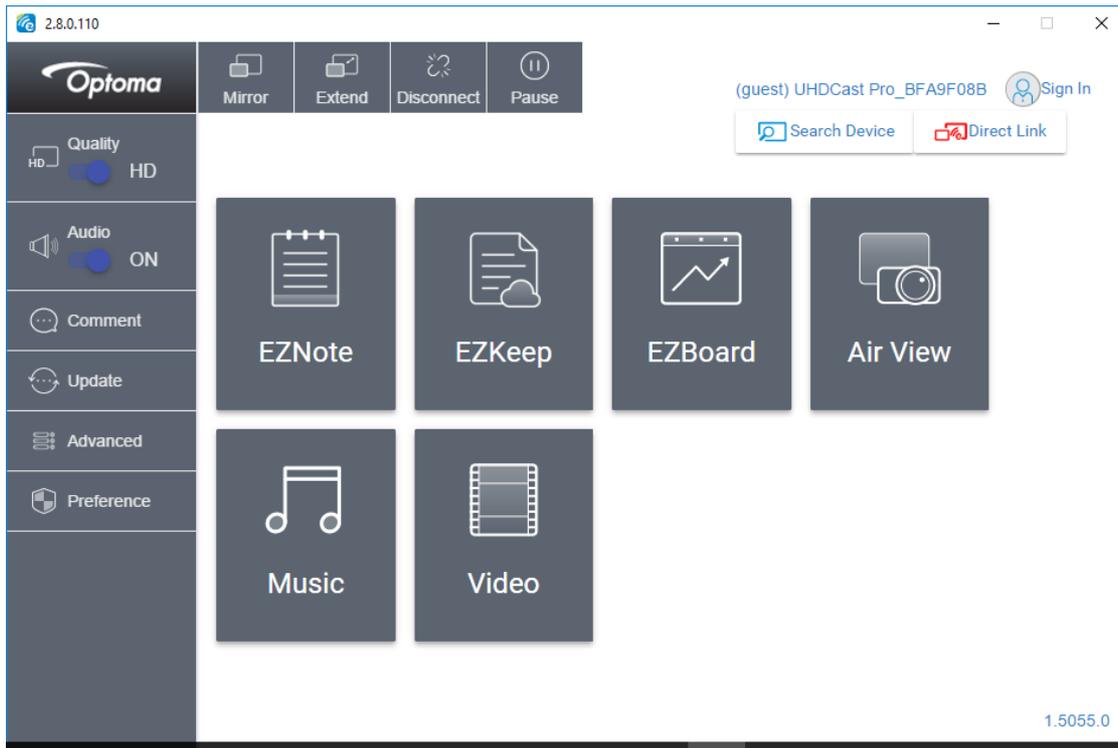


Select the required network you wish to connect to and enter the password if required.

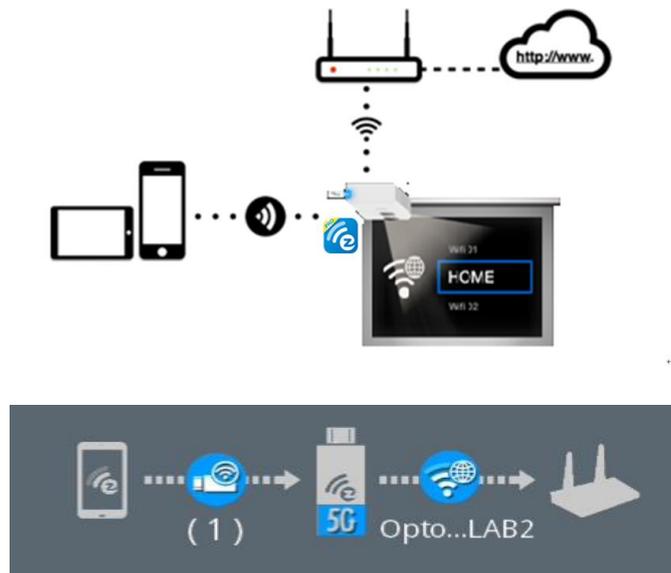
### Android / iOS interface



## Windows / macOS / Chrome OS interface



You can then setup how you want to connect to the UHDCast Pro dongle



**Note:** Sometimes the connection between the UHDCast Pro and your mobile device may disconnect because your WiFi router may change channel. If this happens please reconnect again.

# FEATURES

## 1. Native Mirror Function

The UHDCast Pro supports casting and mirroring function among multiple OS, thus enabling you to mirror your Windows, android and iOS device without installing any app.

### 1.1. Android

- I. Click  in your setting menu and select the SSID that matches with your dongle. Please make sure your device supports Miracast protocol. Note the Cast Logo may vary on different devices.
- II. Once connected, user may see the mirror screen on the external display.

### 1.2. iOS

- I. Connect your iOS device to UHDCast Pro in the WiFi list. Or connect your iOS device and Dongle to the same WAP (Wireless Access Point).
- II. Click  in your menu and select the SSID that matches your dongle.
- III. Once connected, user may see the mirror screen on the external display.

### 1.3. Windows

- I. Open your  Windows Settings Menu, then enter the Display section.
- II. User may find the SSID of the dongle. Once connected, user may see the mirror screen on the external display. Based on different using scenarios, you may select different methods, including Duplicate, Extend, etc.

### 1.4. macOS

- I. Connect your iOS device to UHDCast Pro in the Wi-Fi list. Or connect your iOS device and Dongle to the same WAP (Wireless Access Point).
- II. Click  in your menu and select the SSID that matches your dongle.
- III. Once connected, user may see the mirror screen on the external display.

## 2. EZCast Pro App Introduction



### 2.1. EZNote



View all the devices' casting content on the output screen directly on their own device and make notes.

### 2.2. EZKeep



Review notes saved previously in EZKeep. Other than browsing notes, you can also add bookmarks, edit note information, make comments, delete notes, etc.

### 2.3. EZChannel



A collection of the most popular and latest online videos on the EZChannel home page. Videos include movies, TV series, 24-hour news. In the upper right corner, there will be a HQ/LQ button, which allows you to alternate between High Quality (HQ) and Low Quality (LQ) video.

### 2.4. Photo



Browse through images stored on your device and cast them on the UHDCast Pro. The app also supports slideshow mode, with four different timing transition options (3s, 5s, 10s, 30s per photo).

### 2.5. Camera



Cast a live view from your device's camera

### 2.6. Music



Stream audio stored on your device. Please note that when streaming music to external display, UHDCast Pro only accepts one device as an audio source.

### 2.7. Video



Cast video content stored on your device. Please note during Split Screen mode all connected devices will disconnect from the network display mode when using the Video function,

## 2.8. Document (iOS only)



Reviewing document in EZCast Pro App, supporting mainstream document formats, including Microsoft's Word, Excel, PowerPoint, and Apple's Pages, Numbers, and Keynotes.

## 2.9. Web



Browse the web directly through the app without using a 3rd party browser. To provide better browsing experience, EZCast Pro App already integrated web portals like Google, Facebook, Yahoo, YouTube, etc. Users who already owned EZCast account, may login first and browse bookmarks saved before.

## 2.10. Cloud Storage



Access content stored in cloud service, such as Dropbox, Google Drive, etc. With this function, user may browse, edit, delete or manage their cloud storage without leaving EZCast Pro App.

## 2.11. AirView



View the content displayed on the external display on your own device. This function also allows the user to choose the preferred refresh rate. Please note that user may choose the preferred refresh rate in the Setting menu.

### 3. Setting

Change the WiFi, Language, Device Name, Resolution etc.

#### 3.1 Scan 5G SSID and Connect

Connecting the UHDCast Pro to your preferred networking by selecting SSID and entering WiFi password. After setting up, the user may utilize wireless function such as online video streaming, web browsing, etc.

#### 3.2 Language

Change the language on the UHDCast Pro. Supported languages: English, French, German, Chinese, etc.

#### 3.3 Device Name

Set your own SSID for the UHDCast Pro. Please note that before turning off SSID function, making sure that UHDCast Pro is connected to WiFi router, otherwise would cause UHDCast Pro to lose wireless connectivity. User will have to do hard reset for UHDCast Pro to regain wireless connectivity.

#### 3.4 Resolution

The optimal output resolution will be automatically selected. However, if you wish to change the output resolution you can do so manually.

#### 3.5 EZAir Mode

EZAir mode provides mirroring from iOS device, including iPhone and iPad.

User may choose "Mirror only" or "Screen Mirror+Video Streaming". The former can only mirror the screen content, while the latter can cast both screen and audio content to external display.

### 3.6 AirView

When turning on AirView mode, with users' own device, you may see all the casting content captured from external display. This function also enables the user to choose the preferred refresh **rate**.

### 3.7 Castcode Control

When turning on, the user may mirror the screen by entering castcode displayed on the standby screen.

### 3.8 Max Connections

The host may decide the number of devices that allowed to connect to UHDCast Pro. The default setting is 8 users.

**Note:** *When increasing the number of connected devices, the bandwidth will decrease for each device*

## 4. Advanced Setting



Provides users with various custom configurations.

### 4.1 Link Status

See all the devices connected to UHDCast Pro, including detailed information like device name, IP address, and Role.

### 4.2 Conference Control

This function is only for the Host user. With Host authorisation, a user can assign each device with their own casting area, disconnecting all device, or assigning Host authorisation to others.

### 4.3 Network Management

#### 4.3.1 Scan 5G SSID and Connect



Connecting the UHDCast Pro to your preferred networking by selecting SSID and entering WiFi password. After setting up, the user may utilize wireless function such as online video streaming, web browsing, etc.

#### 4.3.2 WiFi IP Setting



With this function, UHDCast Pro will set up a default IP address and Netmask. For an advanced setting, the user may manually configure the IP address, Gateway, Netmask, and DNS for UHDCast Pro.

#### 4.3.3 WiFi Password



Set a WiFi password for UHDCast Pro. You can also hide the WiFi password from the standby screen.

#### 4.3.4 WiFi Channel



Configure the WiFi Channel manually, such as Country, Channel, and Bandwidth. Note you will not be able to change the WiFi Channel when the UHDCast Pro is connected with an external router.

### 4.4 Admin Setting

Admin Setting is built for advanced users like IT admins, MIS engineers. In this section, premium users are allowed to provide Digital certificate for UHDCast Pro, setting SNMP for mass devices configuration deployment, updating UHDCast Pro through OTA Server, etc.

#### 4.4.1 Admin Password

Set a new Admin Password for UHDCast Pro.

#### 4.4.2 WiFi Enterprise

WiFi Enterprise function allows user uploading Digital certificate.

#### 4.4.3 Host Authority

Specify a Host user for Conference Control, Device manager control, Network setup control, and Reboot control.

#### 4.4.4 Internet Access Control

All allowed: Any device can access the Internet through the UHDCast Pro.

Casting users allowed: Device that are casting through UHDCast Pro are allowed to access to the Internet.

All denied: No devices have access to the internet through UHDCast Pro.

#### 4.4.5 SNMP

IT admin may apply the same configuration to many UHDCast Pro at once.

#### 4.4.6 My Screen

Choose the wallpaper based on their preference. Note: The updated file must be JPEG format that smaller than 3MB, fitting in 1920x 1080.

#### 4.4.7 OTA URL

IT admin may facilitate OTA URL function for deploying a new firmware version to many devices at once.

#### 4.4.8 Connection

Connect to the UHDCast Pro in three different ways

- i. Via Router Allowed: Device may connect to UHCast Pro through Router.
- ii. Direct Link Only: Device can only connect to UHDCast Pro through Direct Link.
- iii. Via Router Only: Device can only connect to UHDCast Pro through Router.

#### 4.4.9 Upgrade

Upgrading to latest firmware through this function.

#### 4.4.10 Reset to default

Resetting UHDCast Pro to factory default. Please note that once clicking OK, all your configuration will be reset.

#### 4.5 Reboot

Rebooting UHDCast Pro for troubleshooting.

#### 4.6 About

Listing detailed information about UHDCast Pro, including SSID, Firmware version, Internet IP address, MAC address, etc.

5. Split Screen Mode



Based on the numbers of connected devices, host user may divide the external display into one-half, one-quarter.

I. Null



II. One-Half



III. One-Quarter

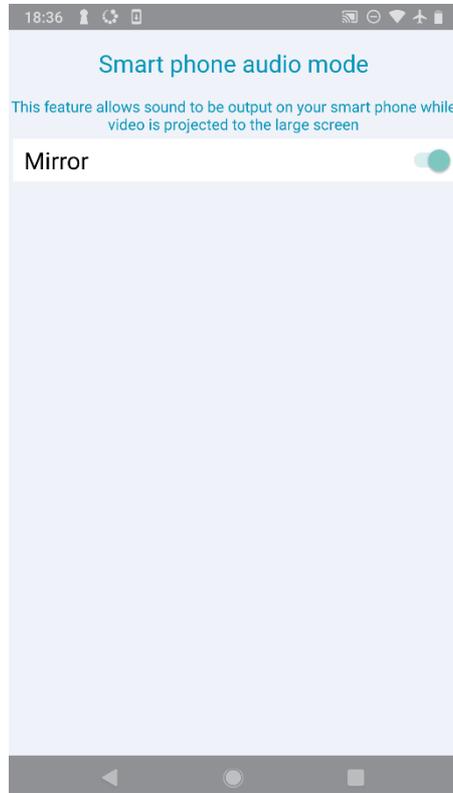


IV. Full



## 6. Mirror

User may also cast with Mirror function. Please note that that under Mirror mode, video is projected to external display, while audio will come from your mobile device.



## Privacy Setting



User may set access configuration for your App, including Photos, Camera, Cellular Data, Notification, etc.

As for data collecting function like Google Analytics for App, Google Analytics for Dongle, user may decide whether to turn on or not.

## 7. Multi-screen Broadcasting with ProCast

User may use one laptop as casting source and mirror to other external displays. Please note that Multi-screen broadcasting is only compatible with Windows and Mac.

**DO NOT** open EZCast Pro App and ProCast at the same time.

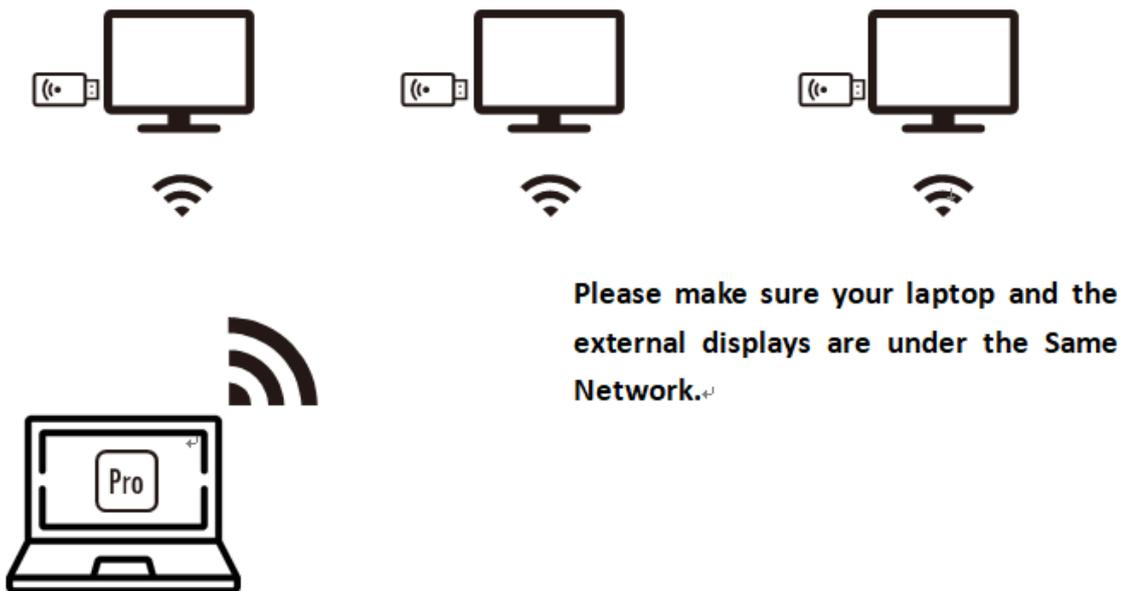
Before using Multi-screen broadcasting, make sure all your dongles that connected to external displays are using the same Wi-Fi.

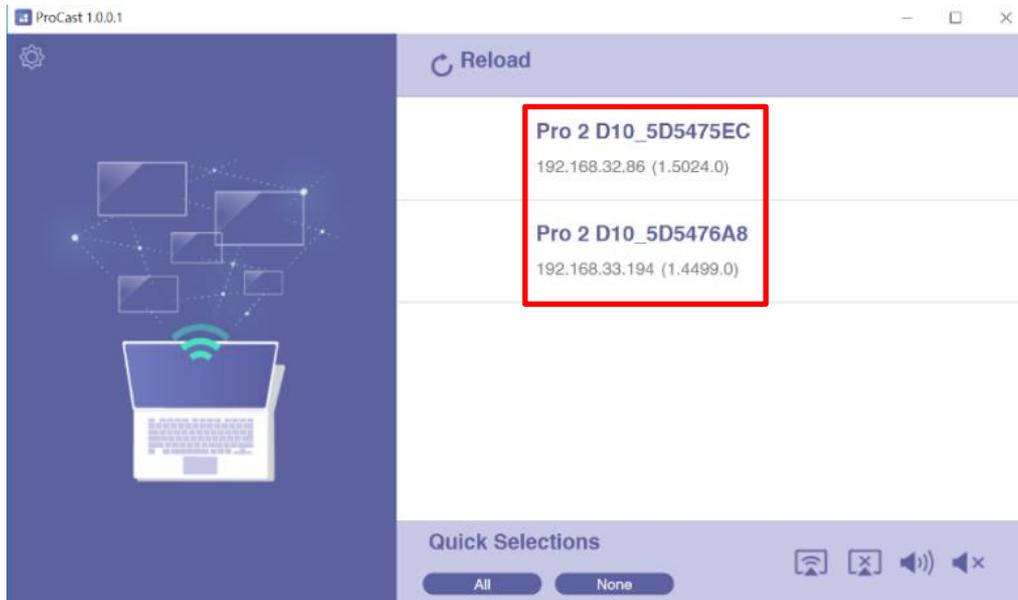
Please note that with the rising number of connected devices, the lower bandwidth will be.

Download ProCast App from our website and install it.

Open ProCast App, and you'll see the matching dongle SSID.

Click  and your screen will be cast to the external displays.



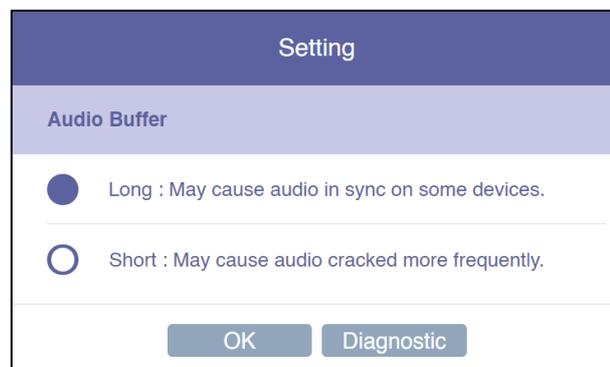


The following icons serves different purposes:

-  Mirror
-  Disconnect
-  Sound-on mode
-  Silent mode

By clicking , we provide users with setting option and diagnostic tool.

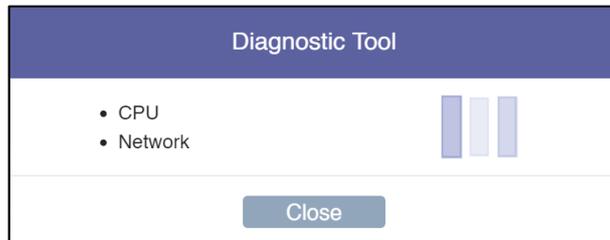
1. Audio Buffer
  - a. Long: With longer buffer, may provide better audio streaming experience
  - b. Short: May cause audio cracked more frequently



## 2. Diagnostic Tool:

Based on user's CPU and Network performance, the Diagnostic Tool will calculate the ideal number of connected external displays.

Please note that the mirror performance may change under different scenarios. For example, static presentation will perform better than 4K video streaming.



# ADDITIONAL INFORMATION

## Specifications

DRAM	DDR3 1GMB
NAND	NAND Flash 512MB
Output Resolution	4096x2160@24hz; 3840x2160@30hz; 3840x2160@25hz; 3840x2160@24hz; 1920x1080@60Hz; 1280x720@60hz; 1920x1080@50Hz; 1920x1080@24Hz; 1280x720@50hz;
I/O	HDMI out (HDMI1.4) USB type-C connector for DC 5V
WiFi	802.11ac 2T2R, max. bandwidth 866Mbps (5Ghz)
WiFi Frequency	5Ghz: 5.150Ghz~5.825Ghz
WiFi Security	WPA/ WPA2/ PEAP/ PEAP2(MSCHAPv2)/ TLS
Power	DC 5V, 1.5A
Video support	Capable of decoding 1080@60 video with most formats H.265 MP@L5.0 High Tier Supports HD MPEG4 SP/ASP (720p/1080i/1080p) H.264 BP@L3, MP and HP@L4.2 H.264 MVC SHP@L4.1 VC-1 SP, MP, AP@L3 AVS JZ@L6.2, AVS+ 1080@60P VP8 1080@60P HD JPEG with 32K x 32K maximum resolution Video up-scaling from SD to Ultra HD (720p/1080i/1080p/2160p)
Protections	HDCP1.4; HDCP2.2
LED	Power, WiFi status
Key	Reset button
Power Consumption	Standby: 2W approx.; Casting: 5W approx.
Working Temp.	0~40°C
Storage Temp.	-20~70°C