



**wePresent**

# WiPG-1600

User's Manual

Version: 2.02

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# 1 Overview

The new version of WiPG-1600 (model name: WiPG-1600w) supports both wired and wireless connections, allowing users the flexibility to switch between “WiFi-enabled” and “WiFi-disabled” options through easy setup. **[Please see the section on “7.4.4 WiFi Setup”.]** The new WiPG-1600 also comes with two detachable antennas, which can be used for better wireless signal coverage and reception. Besides, the new WiPG-1600 boasts a number of new features, such as on-screen annotation tools, virtual whiteboard, USB Document Viewer/Media Player, PoE (Power over Ethernet), gigabit LAN and 1-to-4 distribution, taking your collaboration experience to a new level.

## Feature Highlights:

Icon	Feature	Description
	<b>MirrorOp (Sender)</b>	MirrorOp Sender for Windows and Mac <ul style="list-style-type: none"><li>◆ Windows 7/8/10</li><li>◆ macOS 10.9 and above</li></ul>
	<b>MirrorOp Presenter</b>	High-quality presentation (Word, Excel, PPT, PDF, Photo, Screenshot) via Android and iOS devices.
	<b>Video Streaming</b>	Network video streaming for Windows, macOS, Android, iOS
	<b>MirrorOp Receiver (the SidePad Function)</b>	Control the projecting PC or Mac via iPhone, iPad or Android devices
	<b>WebSlides</b>	Broadcast slides of the running presentation to the audience (multiple login devices) via WiFi and a web browser. <ul style="list-style-type: none"><li>◆ Audience can view and save slides for note-taking later.</li><li>◆ Access to WebSlides can be secured with a password.</li></ul>

	<b>Whiteboard</b>	<ul style="list-style-type: none"> <li>◆ Make freehand drawings on virtual whiteboard/blackboard without connecting any PC/Mac/tablet/smartphone.</li> <li>◆ Annotate on the screen during a presentation</li> <li>◆ On-screen annotations/writings/drawings can be done with a touch panel or any USB HID device.</li> </ul>
	<b>Quad-Screen Mode (4-to-1 Split Screen)</b>	Project four PC/Mac/smartphone/tablet screens to one projector/display simultaneously.
	<b>1-to-4 Distribution</b>	Project your device screen to up to 4 wePresent units and their connected displays at the same time.
	<b>Conference Control/ OSD User-List</b>	<p>Select which user to project from the web page, or use the mouse to select a user from the standby screen.</p> <ul style="list-style-type: none"> <li>◆ The conference-control function can be secured with a password.</li> <li>◆ The moderator can control who is projecting.</li> <li>◆ The moderator can compare up to four documents/photos/videos side by side on the same screen.</li> </ul>
	<b>SNMPv3</b>	Manage (WiPG-1600) devices across the corporate/school network through SNMPv3.
	<b>Remote Control/UMT (Universal Multi-Touch)</b>	(Driverless) remote/touch control through network. [Support USB HID touch devices compatible with Windows 7/8/10]
	<b>Plug &amp; Show</b>	You can create your own USB Plug & Show token (USB drive). Just plug the token into your PC/Mac, and a presentation can be started in seconds (no software installation is required).

## Basic Features

- WiFi 802.11 a/b/g/n (switchable 2.4/5.0 GHz dual-band)
- Power over Ethernet
- Wireless screen/audio projection
- Remote control
- Support Windows 7/8/10
- Support macOS 10.9 and above
- High-speed projection (up to 30 fps)
- Support up to 64 concurrent login users
- UMT support (for USB HID touch devices compatible with Windows 7/8/10)
- Extended desktop support for both Windows and Mac
- Web management (including the software download and device settings)
- Support WPA /WPA2 Enterprise encryption
- Customizable standby screen: replace the entire standby screen image with any image of your choice)
- Support SNMPv3:
  - Manage/configure multiple WiPG-1600 devices through SNMPv3.
  - Firmware upgrade via FTP
  - A security enhancement for SNMP
- Provide session security login, wireless WEP/WPA PSK/WPA2 PSK/WPA Enterprise/WPA2 Enterprise key, and gatekeeper functions to protect presentation contents and maintain office network security
- VGA/HDMI video output
- Support the AP (Access Point)/Station/AP & Station mode

# 2

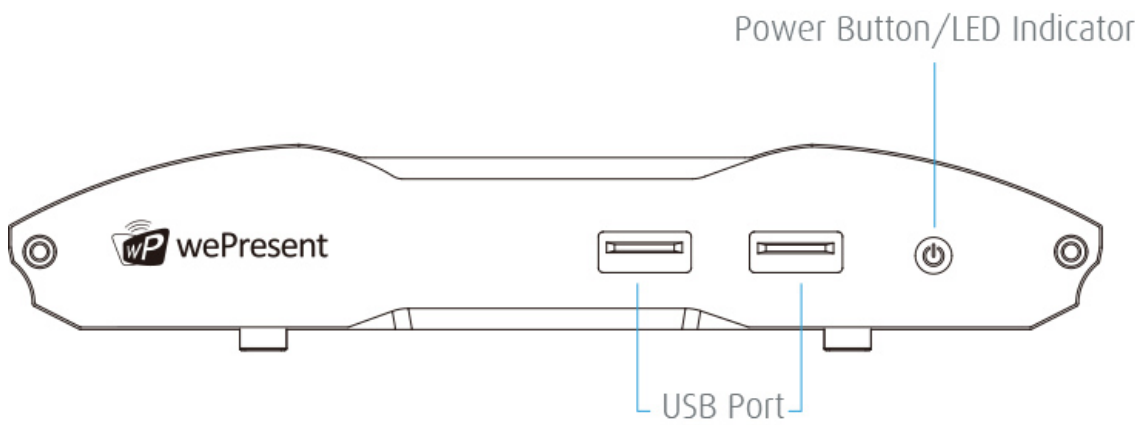
## Package Contents

- wePresent WiPG-1600 Base Unit
- Power Adapter (DC +5V, 2.6A)
- Two Detachable Antennas
- Wall-Mount Kit
- Quick Start Guide
- Warranty Card
- CE DoC & Warning Statement

# 3

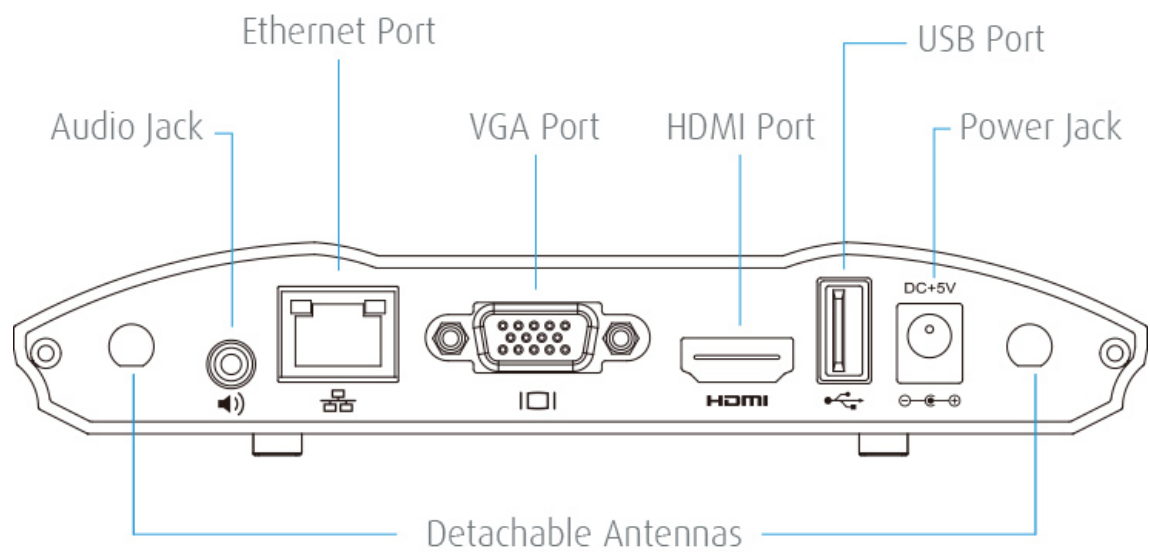
## Physical Details

- **Front Panel**



Description	
Power Button/LED Indicator	Power button/LED indicator: red – system loading blue – system ready
USB Port (Front)	2 USB ports for USB thumb drive/mouse/keyboard/touch device

- **Rear Panel**

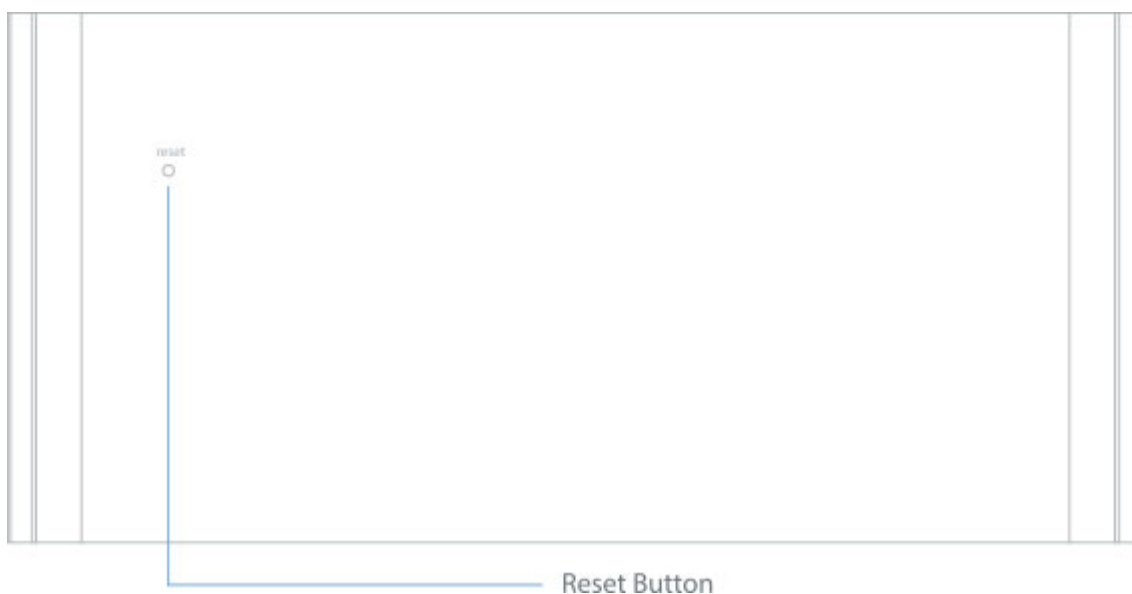


	Description
<b>Detachable Antennas</b>	Two antennas installed for better WiFi performance
<b>USB Port (Rear)</b>	For USB thumb drive/mouse/keyboard/touch device
<b>Ethernet Port</b>	10/100/1000M RJ-45 port For PoE (Power over Ethernet)
<b>VGA Port</b>	For VGA projector/display
<b>HDMI Port</b>	For HDMI projector/display
<b>Audio Jack (3.5mm)</b>	For speaker
<b>Power Jack (5V/2.6A)</b>	For power adapter

- ◆ Each USB port can only supply up to 5V/0.5A to the USB thumb drive/mouse/keyboard/touch device.
- ◆ PoE Standard: IEEE 802.3at, type 1 (up to 13 watts), class 0.



- **Bottom Side**



Description	
Reset Button	For hard reset.

\*\*\* To perform a hard reset to restore your WiPG-1600 device to the factory default settings, please follow the below procedures:

1. Long press the reset button and hold.
2. Turn on the WiPG-1600 and wait for over 10 seconds until the LED indicator turns blue.
3. Release the reset button.
4. The WiPG-1600 will be restored to the factory default settings.

Note:

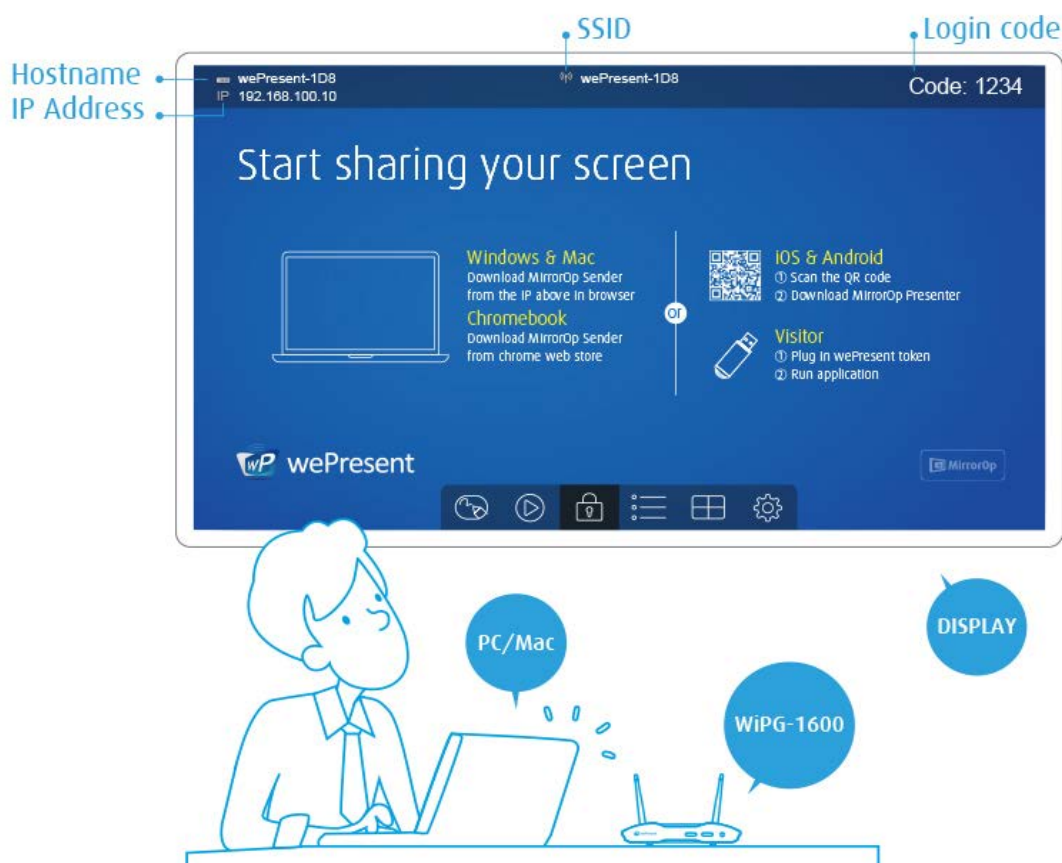
- The function of the ITE (Information Technology Equipment) being investigated to IEC 60950-1 is considered not likely to require connection to an Ethernet network with outside plant routing, including in a campus environment.
- For proper installation, ITE is to be connected only to PoE networks without routing to the outside plant.

## 4 What You (Might) Need

- Projector/display with VGA/HDMI interface (Required)
- Ethernet cable (Required if you want to disable the WiFi of the WiPG-1600)
- Windows or Mac computer
- Apple iPhone, iPad, iPod touch
- Android phone or tablet
- Speaker
- USB mouse /keyboard
- USB HID touch screen/IWB device

# 5 Hardware Installation

- 1) Connect the WiPG-1600 to the projector/display through the VGA/HDMI port and turn on the projector/display power.
- 2) Connect the power adapter to the WiPG-1600 and press the power button to turn on the device. The system is ready when the LED indicator turns blue.
  - The WiPG-1600 base unit can also be powered by the Ethernet cable (Power over Ethernet).
  - The default standby screen as shown below will be displayed when the system is ready.



- 3) If WiFi is disabled on the WiPG-1600, the device must be connected to an existing IT network via Ethernet cable.
- 4) Connect the speaker to the WiPG-1600 audio jack for audio output. **(A speaker is required for audio output when using VGA.)**

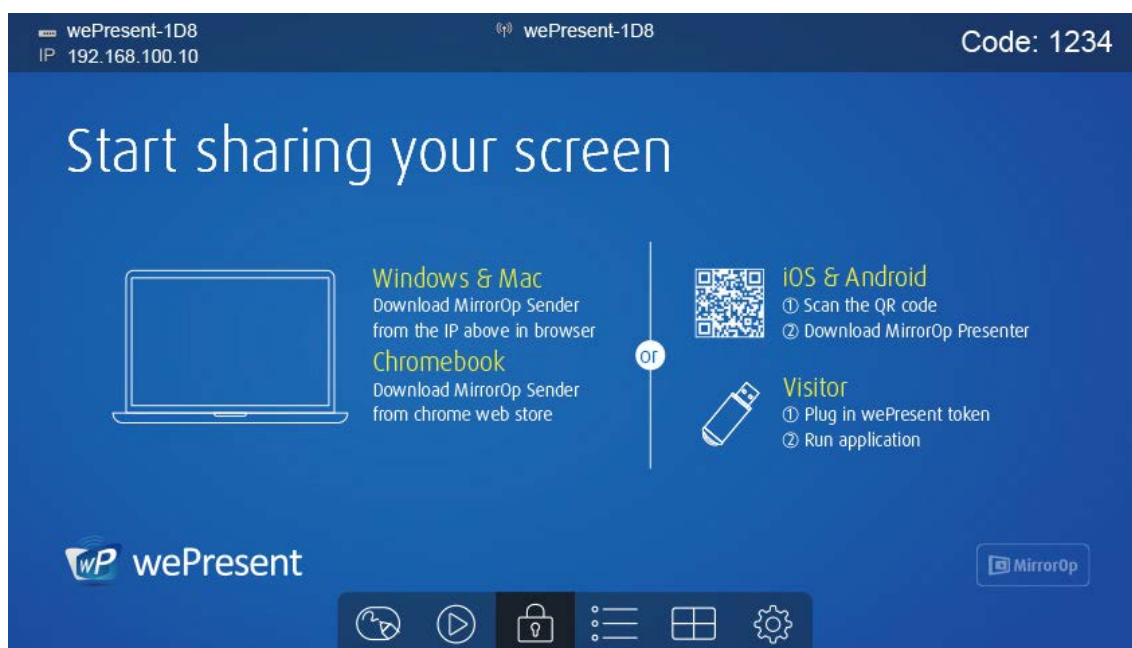
- 5) Connect the USB mouse/keyboard/touch device to the WiPG-1600 front/rear USB port for the OSD (on-screen display) control or remote control.

## 6 Standby Screen of the Projector/Display


### 6.1 Quick Guide

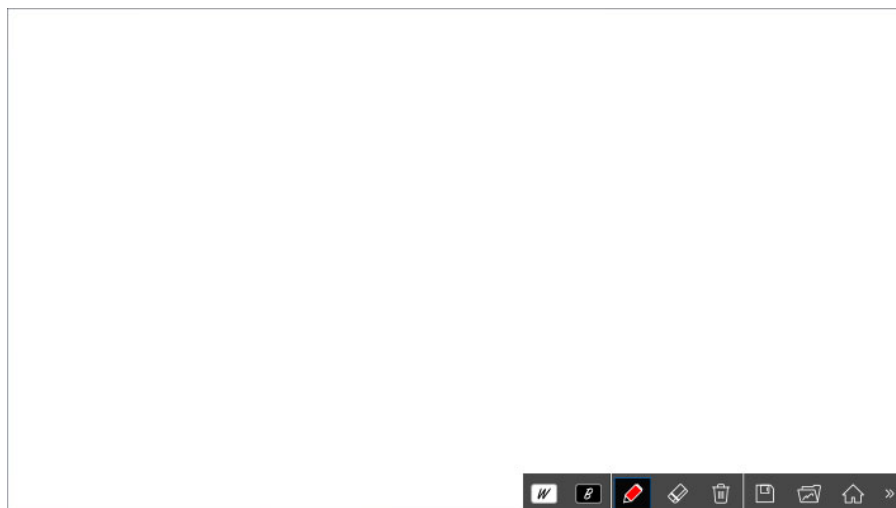
The following information will be shown on the standby screen of the projector/display:

- (a) software download instructions; (b) WiFi network name or SSID [**Default SSID is wePresent-xxx (xxx are the last three numbers of the MAC ID shown on the bottom side of the WiPG-1600 device)**]; (c) IP address [**default IP address is 192.168.100.10**]; (d) login code.













### 6.2 Whiteboard

- 1) Click on the “whiteboard”  button on the standby screen, and you can make freehand drawings on the virtual whiteboard through the USB mouse/touch screen/IWB device.

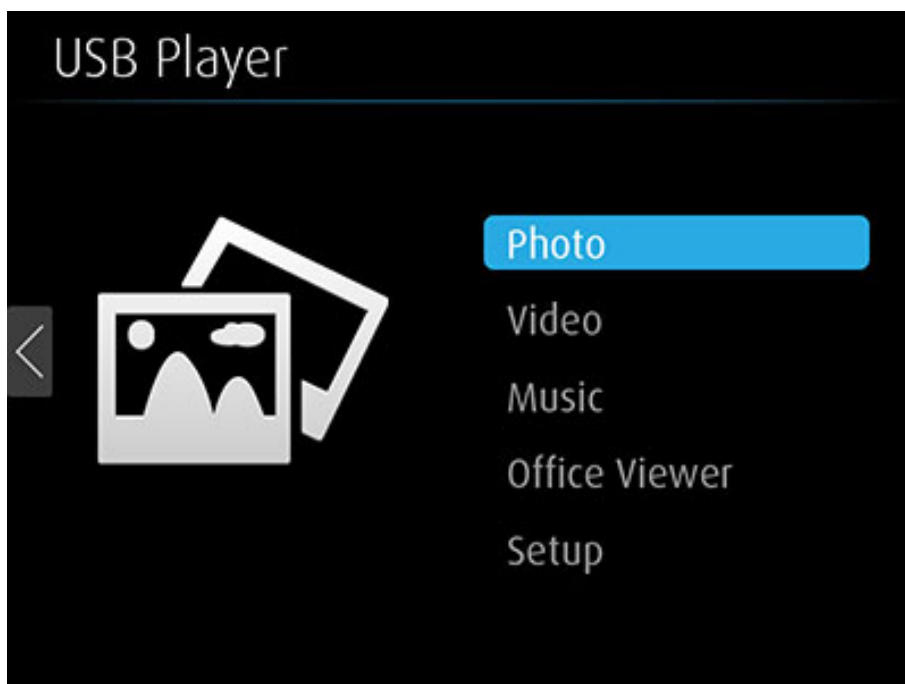


## 2) Toolbar of the Whiteboard



Button	Description
	Show/hide the toolbar
	Return to the WiPG-1600 standby screen
	Open a file from an attached USB drive
	Save the drawings/writings (current screen image) as a JPG file to an attached USB drive
	Clear all the drawings/writings
	Erase part of or the whole of the drawings/writings
	Pen color (red, green, blue, black)
	Pen width (fine, medium, bold)
	Switch to the “Blackboard” mode (all the drawings/writings will be cleared after the mode switch)
	Switch to the “Whiteboard” mode (all the drawings/writings will be cleared after the mode switch)

## 6.3 “USB Player” Function


- 1) Click on the “USB Player”  button on the standby screen to activate the “USB Player” function. You can playback photo/video/music/office files on the USB drive attached to the WiPG-1600 device. **(For details, please refer to the “9. USB Player” section)**

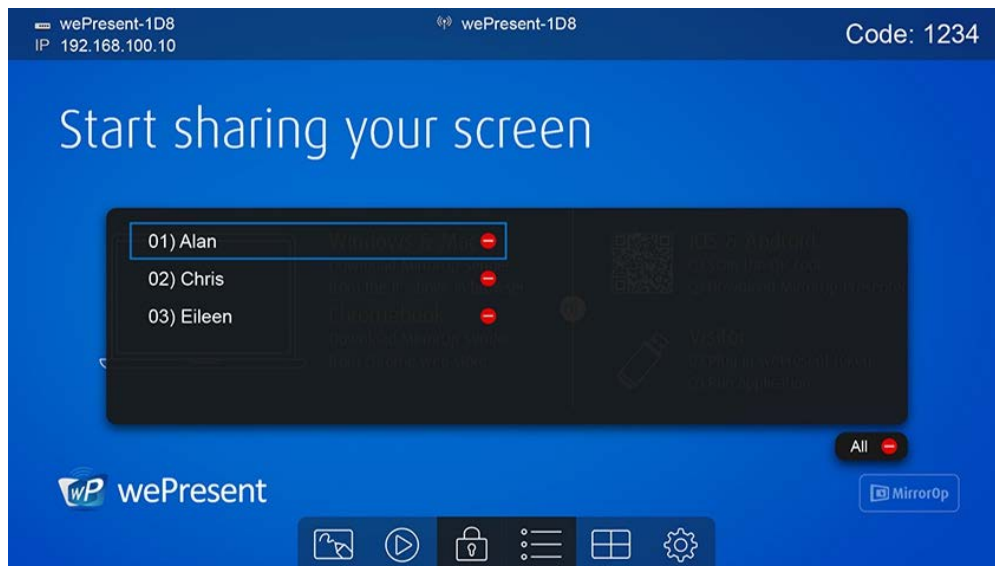


## 6.4 “Conference Control” Mode

- 1) Click  to enable the “Conference Control” mode. When the “Conference Control” mode is on, only the moderator can decide which user to project his/her screen to the projector/display. That is to say, users are not allowed to project their screens freely.
- 2) Click  to disable the “Conference Control” mode.

## 6.5 User-List

Click on the “User-List” button  to show all the login users. The moderator can pick which user to project his/her screen to the projector/display.




## 6.6 Quad-Screen Mode (4-to-1 Split Screen)

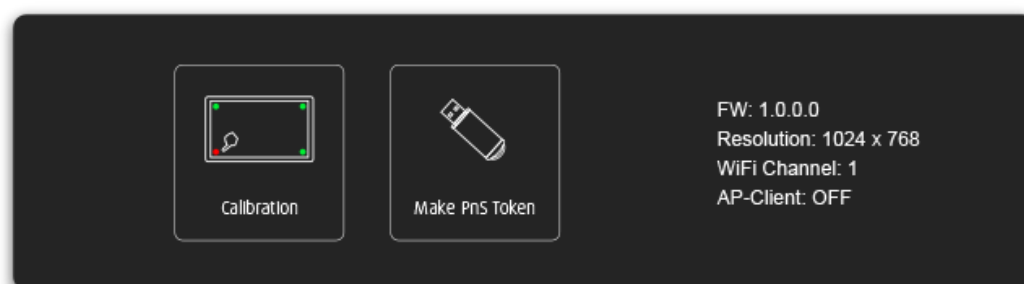
Click on the “Quad-Screen” button  on the standby screen to enter the

“Quad-Screen” mode. Click the “Add” button  to see the list of login users and assign which user to project his/her screen to the selected quadrant area.



## 6.7 Setup

Click on the “Setup” button , and you can find the information on firmware (FW) version, resolution, WiFi channel and AP-Client (AP & Station) status. You can also click on the “Calibration” button to calibrate the screen to ensure touch accuracy. Click on the “Make PnS Token” to copy the Plug & Show MirrorOp application for Windows and Mac to the attached USB drive. [Just plug the token (USB drive) into your PC/Mac, and a presentation can be started in seconds (no software installation is required).]



## 6.8 Remote Control/Remote Touch Control (UMT)

WiPG-1600 supports remote control, including remote touch control (UMT). Users can remotely control the projecting computer from the display via a mouse, keyboard or touch screen.

### Note:

1. The UMT (universal multi-touch) function can only support USB HID touch

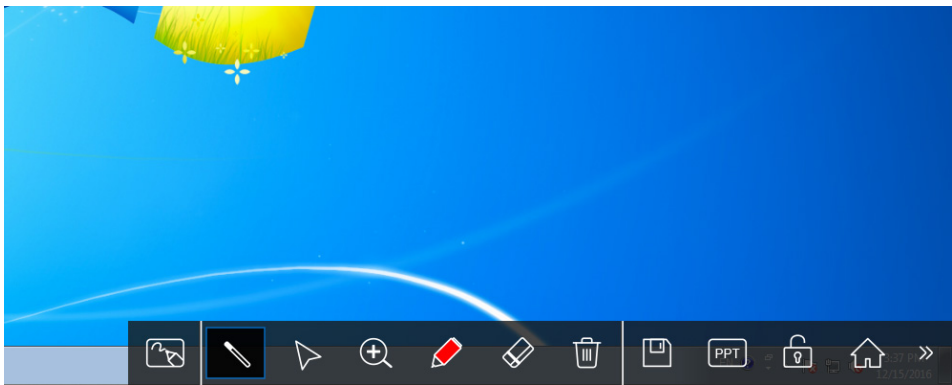


devices compatible with Windows 7/8/10. Therefore, when the operating system of the sender device is macOS, touch events on the projector/display screen are translated into mouse events on the screen of the sender device. [Please be aware that Windows 7 can only provide limited multi-touch capability for specific applications.]










- 2. Each USB port on the WiPG-1600 device can supply up to 5V/0.5A power. Additional power supply is required if the attached HID device needs more power.













6.9 Toolbar in the Projection Mode

- 1) When in the projection mode, a toolbar appears at the bottom of the projector/display screen, allowing on-screen annotations/drawings/writings to be made.



- 2) Overview of the toolbar in the projection mode:

Button	Description
	Return to the WiPG-1600 standby screen
 	Enable/Disable the Conference Control mode
	PowerPoint presentation tools
 	Page up/Page down
 	Full-Screen mode/Exit the Full-Screen mode
	Save the annotations/drawings/writings (current screen image) as a JPG file to an attached USB drive

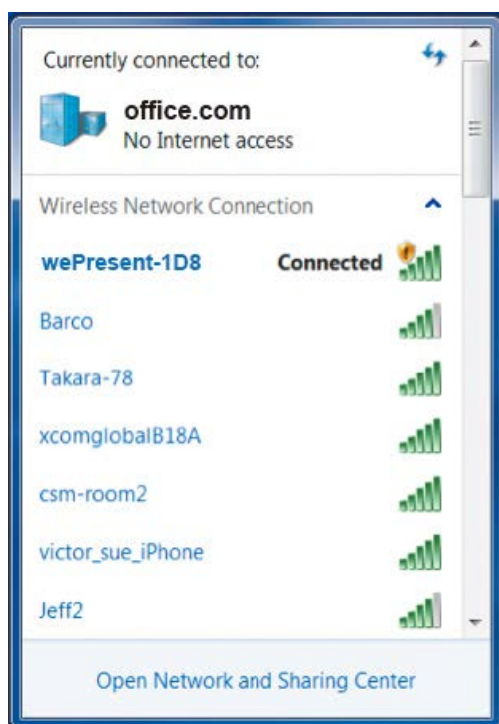
	Clear all the annotations/drawings/writings
	Erase part of or the whole of the annotations/drawings/writings
  	Pen color (red, green, blue, black)
  	Pen width (fine, medium, bold)
	Switch to the Mouse mode for remote control
	Switch to the Pointer mode
	Enable/Disable the Magnifier function
	Switch to the Whiteboard mode

# 7

## Web Management

### 7.1 Home Page

- 1) Make sure your sender device (PC/Mac) is WiFi-enabled, and connect your sender device to the WiPG-1600 through WiFi. You can find the WiFi network name (SSID) of your WiPG-1600 device on the standby screen. **[Default SSID is wePresent-xxx (xxx are the last three numbers of the MAC ID shown on the bottom side of the WiPG-1600)]**

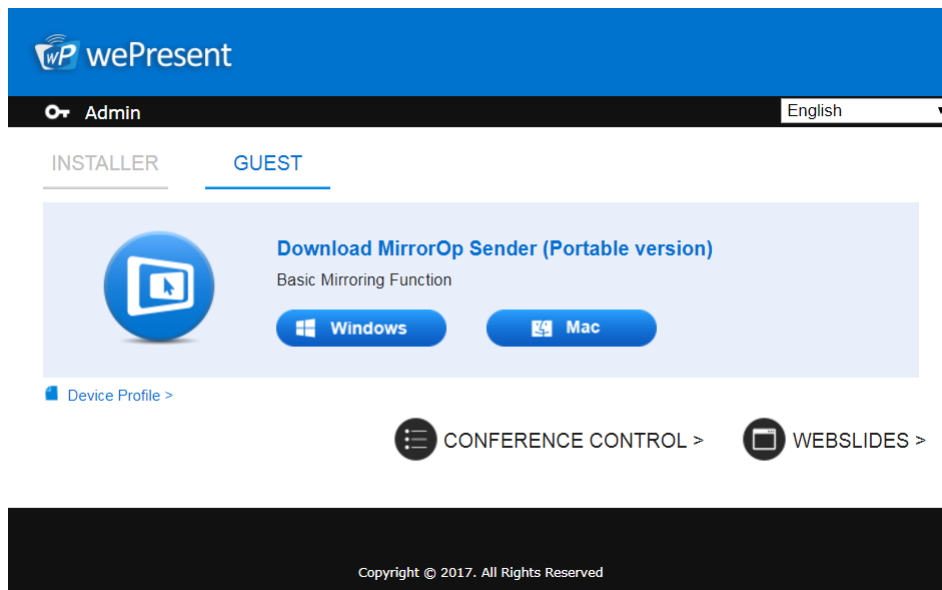


Windows




Mac

- 2) Open the browser of the sender device (PC/Mac), and enter the receiver IP address/hostname in the address bar of the browser. You can find the receiver IP address and hostname on the standby screen of the projector/display. **[Default IP address is 192.168.100.10; default hostname is wePresent-xxx (xxx are the last three characters of the MAC ID shown on the bottom of the WiPG-1600).]**
- 3) On the “Home” page, shown below, click “Guest” or “Installer” to download the portable version or installed version (full version) of the MirrorOp (Sender) app for Windows (Windows 7/8/10) or Mac (macOS 10.9 and above). [Please disable the “Smart Screen Filter” on the IE browser; otherwise you might not be able to download the file.]



### Note:


The portable and installed version of the MirrorOp sender app are as follows:

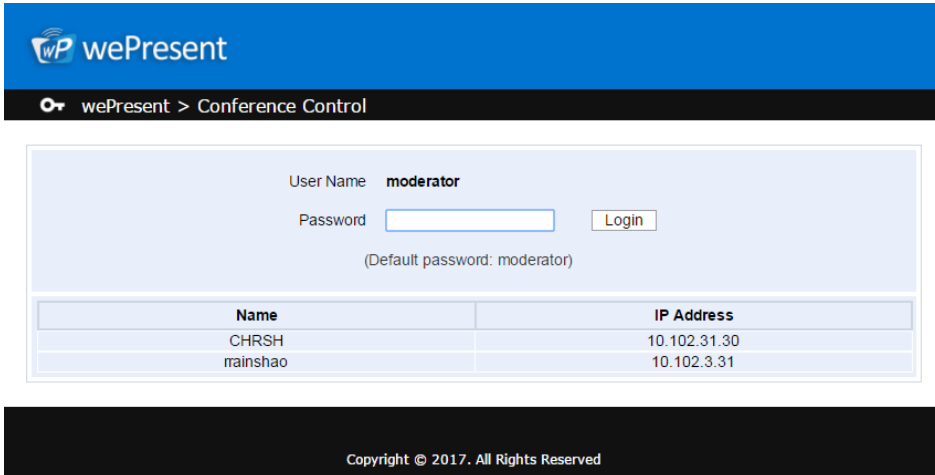
- (a) For Windows users, the installed version of the MirrorOp Sender app supports **UoIP (USB over IP), video streaming and SidePad** features for the connected WiPG-1600 device. The portable version does not.
  - The UoIP allows users to remotely control the projecting PC from the display using “special” hand gestures used in some game apps and interactive whiteboard apps.
  - UoIP must be enabled in the MirrorOp Sender app settings to use this function: **[MirrorOp Sender ->  -> Preferences -> Advanced -> (Remote USB Support) -> Simulate as local USB]**
- (b) The portable version of the MirrorOp Sender app can locate the target WiPG-1600 device automatically.
- (c) It's recommended guest users download the portable version so they can begin

a presentation without installing an application installation or completing the device discovery process.

- (d) It's recommended internal users install the full version of MirrorOp Sender, particularly if there are several WiPG-1600 devices deployed on their company/school network and they need to connect to different WiPG-1600 devices from time to time. The portable version of the MirrorOp Sender app will automatically locate the WiPG-1600 device from which the app was downloaded requiring them to search for other target devices manually.
- 4) If you have installed the MirrorOp Sender app on your computer, you can click "Device Profile" to download an MOP file. The MOP file provides a quick way to connect to a predefined receiver. Once downloaded, the user can double click the MOP file and it will connect to the predefined WiPG-1600 device automatically.

## 7.2 Conference Control

- 1) Select the "Conference Control" function , and a list of connected sender devices will be shown.
- 2) Enter the password and then click "Login". **(Default password: moderator)**



wePresent

wePresent > Conference Control

User Name **moderator**

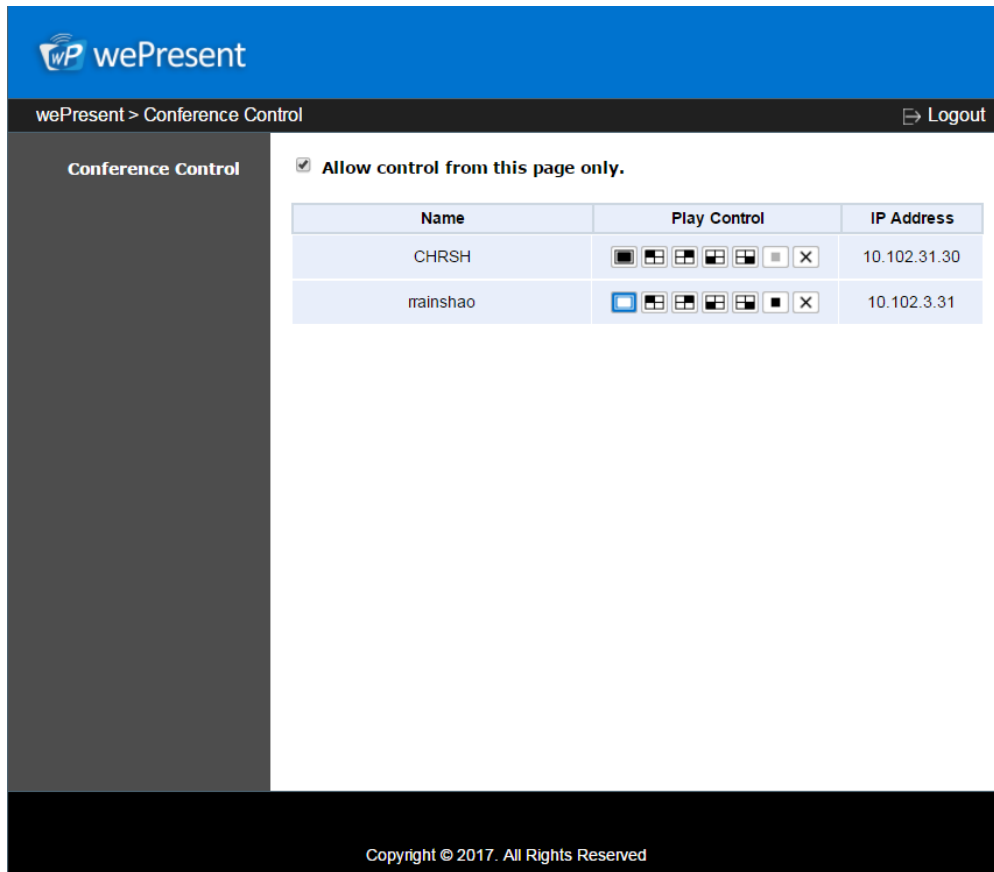
Password

(Default password: moderator)

Name	IP Address
CHRSB	10.102.31.30
rainshao	10.102.3.31

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- 3) After login, you can see a user-list on the screen which indicates all the users connected to the WiPG-1600.



- 4) There are three columns: “Name”, “Play Control” and “IP Address”.
- 5) Play Control: There are seven buttons – (a) (full screen); (b) (upper-left quadrant of the screen); (c) (upper-right quadrant of the screen); (d) (lower-left quadrant of the screen); (e) (lower-right quadrant of the screen); (f) (stop); (g) (remove).
- 6) Uncheck the “Allow control from this page only”, and the centralized control will be disabled, allowing users to project their screens to WiPG-1600 freely.

## 7.3 WebSlides



- 1) Click the “WebSlides” button to enter the WebSlides page.
- 2) Enter the password if necessary.
- 3) Start to capture the current projecting screen.
- 4) Please refer to the **“12 Launch WebSlides” section** for more information.

## 7.4 Admin

Click [Admin], and then enter the password to log in to the web admin page. **(Default Password: admin)**

### 7.4.1 System Status

Click [System Status], and the current system status will be shown.

< **Model Name** >: WiPG-1600w

< **Versions** >

- Firmware Version: version number of the installed firmware

< **Device Information** >

- Host Name: Device Network Hostname
- Resolution: Device output resolution

< **Network Status** >

- IP address: IP address of the WiPG-1600 device
- Subnet Mask: subnet mask
- Default Gateway: default gateway
- Wireless MAC address: wireless MAC address
- Wire MAC address: wire MAC address

< **WiFi Information** >

- Mode: AP (Access Point)/Station/AP & Station
- SSID: current SSID/the connected WiFi AP name

< **Connection Status** >

- Projecting Status: "Waiting for projecting"/"Projecting"
- Total Users: the number of users logged into the WiPG-1600 device

- Code: login code

#### < Date and Time >

- Date: Current date
- Time: Current time
- Time Zone: Current time zone

wePresent > Admin > System Status Logout

<b>System Status</b>	<b>Model Name</b>	WiPG-1600w
<b>Device Setup</b>	<b>Versions</b>	
<b>Network Setup</b>	Firmware Version	1.0.0.1
<b>WiFi Setup</b>	<b>Device Information</b>	
<b>SNMP Setup</b>	Host Name	wePresent-1D8
<b>OSD Setup</b>	Resolution	1920x1080(1080p)
<b>WebSlides Setup</b>	<b>Network Status</b>	
<b>Certificate Setup</b>	IP Address	10.102.3.102
<b>Change Passwords</b>	Subnet Mask	255.255.255.0
<b>Reset to Default</b>	Default Gateway	10.102.3.1
<b>Firmware Upgrade</b>	Wireless MAC Address	BC:30:7E:DD:48:92
<b>Reboot System</b>	Wire MAC Address	00:12:5F:16:7C:7B
	<b>WiFi information</b>	
	Mode	Access Point
	SSID	wePresent-1D8
	<b>Connection Status</b>	
	Projecting Status	Waiting for Projecting
	Total Users	0
	Code	8813
	<b>Date and Time</b>	
	Date	--
	Time	--
	Time Zone	--

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## 7.4.2 Device Setup

Click [Device Setup], and the device setting items will be displayed.

#### < Device Setup >

- Resolution: 800 x 600 (SVGA)/1024x 768 (XGA)/1280 x 720 (720p)/  
1280 x 768 (WXGA)/1280 x 800 (WXGA)/1360 x 768 (WXGA)  
1440 x 900 (WXGA+)/1600 x 1200 (UXGA)/1920 x 1080 (1080i)  
1920 x 1080 (1080p)/Auto Detect (HDMI)



- **<Code>**: You can select “Disable”, “Random”, or “Use the following code” to set a specified 4-digit number as the login code.

#### **< Date and Time Settings >**

- Choose “SNTP/NTP Server Synchronization” or “Disable” to specify the time server or disable this feature.
- Time Zone: Specify the time zone
- Daylight Saving Time: Enable/Disable

#### **< SharePod Paring Settings >**

- Choose “Apply wePresent’s WiFi settings” or “Apply the following WiFi settings”. (If you choose “Apply the following WiFi settings”, input the SSID to which the SharePod should connect.)
- Encryption: The default setting is “Disable” (you can also choose “WEP”, “WPA AES”, “WPA2 AES”, “WPA TKIP”, or “WPA2 TKIP”).
- Key: If the “Encryption” function is enabled, you have to set a key value according to the encryption mode you have selected.

#### **< AirPlay >**

- “Enable” or “Disable” the AirPlay feature.

#### **< Apply >**

- Confirm and save all modifications.

#### **< Cancel >**

- Cancel all modifications.

wePresent > Admin > Device Setup Logout

**System Status**  
**Device Setup**  
**Network Setup**  
**WiFi Setup**  
**SNMP Setup**  
**OSD Setup**  
**WebSlides Setup**  
**Certificate Setup**  
**Change Passwords**  
**Reset to Default**  
**Firmware Upgrade**  
 Reboot System

**Device Setup**

Resolution: Auto Detect (HDMI) ▼

Code: ☐ Disable ☒ Random ☐ Use the following code  (0-9)

**Date and Time Settings**

☐ SNTP/NTP Server Synchronization ☒ Disable

Server:

Last Sync Time: --

Time Zone: (GMT) 8:00 (Beijing, Chongqing, Hong Kong, Taipei) ▼

Daylight Saving Time: ☒ Enable ☐ Disable

Date: --

Time: --

**SharePod Pairing settings**

☒ Apply wePresent's WiFi settings ☐ Apply the following WiFi settings

SSID:

Encryption: Disable ▼

Key:  ☒ Hide characters

**AirPlay**

☒ Enable ☐ Disable

Bonjour: ☒ Enable ☐ Disable

**Video Streaming**

☒ Enable ☐ Disable

Apply Cancel

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## 7.4.3 Network Setup

Click [Network Setup], and the network setting items will be shown.

### < Host Name and Domain Name>

- **Host Name:** Enter the host name of this device. [Note: You can choose “**Same as WiFi Network Name**”, and the host name will be the same as the WiFi network name (SSID)].
- **Domain Name:** You can also enter the domain name of this device if a DNS server is available.

### < IP Setup>

- You can select “**obtain an IP address automatically**” or “**Use the following IP address**”.
- **IP Address:** The default value is 192.168.100.10.
- **Subnet Mask:** The default value is 255.255.255.0
- **Default Gateway:** The default value is 192.168.100.10
- **DNS Server:** The default value is 192.168.100.10

### <DHCP Server Setup>

**(Note: The network configuration of the WiPG-1600 is automatic via DHCP)**

The default setting of the WiPG-1600 is DHCP client. When the WiPG-1600 is connected to a LAN that already has a DHCP server present, the WiPG-1600 takes an IP address assigned to it by the server. When the WiPG-1600 is connected to a LAN that does not have a DHCP server, the WiPG-1600 can become the DHCP server in the network.

- You can select “**Auto**” (Enable/Disable the DHCP Server) or “**Disable**”.
- **Start IP:** The start IP address of the DHCP Server
- **End IP:** The end IP address of the DHCP Server
- **Subnet Mask:** The default value is 255.255.255.0
- **Default Gateway:** The default value is 192.168.100.10
- **DNS Server:** The default value is 192.168.100.10

**< Gatekeeper >**

Gatekeeper is designed for ensuring the enterprise network security within the WiPG-1600 wireless presentation system.

- **All Pass:** Users connected to WiPG-1600 can freely access all office/school networks and internet via the Ethernet cable or AP-Client (AP & Station) mode.
- **All Block:** Users connected to WiPG-1600 can only use the office/school network for presentation without internet or intranet access.
- **Internet Only:** Only port 80 is allowed for internet connection. Users connected to WiPG-1600 can use the network for presentation and browsing web pages.

**< Apply >**

- Confirm and save all modifications.

**< Cancel >**

- Cancel all modifications.

wePresent > Admin > Network Setup Logout

**System Status**  
**Device Setup**  
**Network Setup**  
**WiFi Setup**  
**SNMP Setup**  
**OSD Setup**  
**WebSlides Setup**  
**Certificate Setup**  
**Change Passwords**  
**Reset to Default**  
**Firmware Upgrade**

**Reboot System**

**Host Name and Domain Name**

Host Name: wePresent-1D8  
☒ Same as WiFi Network name  
 Domain Name:

**IP Setup**

☒ Obtain an IP address automatically ☐ Use the following IP address

IP Address: 192 . 168 . 100 . 10  
 Subnet Mask: 255 . 255 . 255 . 0  
 Default Gateway: 192 . 168 . 100 . 10  
 DNS Server: 192 . 168 . 100 . 10

**DHCP Server Setup**

☒ Auto ☐ Disable

Start IP: 192 . 168 . 100 . 11  
 End IP: 192 . 168 . 100 . 254  
 Subnet Mask: 255 . 255 . 255 . 0  
 Default Gateway: 192 . 168 . 100 . 10  
 DNS Server: 192 . 168 . 100 . 10

**GateKeeper**

☒ All Pass ☐ All Block ☐ Internet Only

Apply Cancel

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## 7.4.4 WiFi Setup

**< Wireless LAN>:** You can choose to enable or disable the wireless LAN (WiFi function). The default value is “Enable”. [If you disable the WiFi of the WiPG-1600, you need to connect the device to an existing IT network through an Ethernet cable.]

**< Mode>:** Access Point (AP)/Station/AP & Station [the default value is AP].

### < AP Mode >

- SSID: You can change the default SSID [the maximum length is 32 bytes].
- SSID Broadcast: The default value is “Enable”.
- Band: “2.4 GHz” or “5 GHz” [The default value is “2.4 GHz”].
- Channel: The default value is “Auto” (you can also choose to set a fixed channel). The “Auto” option means that after the WiPG-1600 device is powered on, the system will scan all the wireless channels and select a clear channel automatically.
- Encryption: The default value is “Disable” (you can also choose “WEP”, “WPA

PSK", "WPA2 PSK", "WPA Enterprise" or "WPA2 Enterprise" matching the external AP setting).

- Key: If the "Encryption" function is enabled, you have to set the "Key" value according to the encryption mode you have selected (you shall input the key of the external AP). If the length of the key entered is too short or long, a warning message will pop up.
- Channel Bandwidth: "20MHz" or "Auto" (20MHz/40MHz) [the default value is "Auto"].

#### < Station Mode >

- Connect to Existing AP: The default setting is "Disable". If you enable this function, you shall enter the SSID of the existing AP you want to connect to.
- Encryption: The default value is "Disable". If you choose to connect to an existing AP, you shall select the encryption type (WEP/WPA PSK/WPA2 PSK/WPA Enterprise/ WPA2 Enterprise) matching the external AP setting.
- Key: If the "Encryption" function is enabled, you have to set the "Key" value according to the encryption mode you have selected (you shall input the key of the external AP). If the length of the key entered is too short or long, a warning message will pop up.)

Note: The Encryption and Key information must be consistent to the exiting AP configuration.

#### < AP & Station Mode >

Please see the above information on < AP Mode > and < Station Mode >.

Note: "AP & Station" Mode = "AP-Client" Mode

#### < Apply >

- Confirm and save all modifications.

#### < Cancel >

- Cancel all modifications.

wePresent > Admin > WiFi Setup Logout

**System Status**  
**Device Setup**  
**Network Setup**  
**WiFi Setup**  
**SNMP Setup**  
**OSD Setup**  
**WebSlides Setup**  
**Certificate Setup**  
**Change Passwords**  
**Reset to Default**  
**Firmware Upgrade**  
 Reboot System

**Access Point**

Wireless LAN: ☒ Enable ☐ Disable

Mode: ☒ Access Point ☐ Station ☐ AP and Station

SSID:

SSID Broadcast: ☒ Enable ☐ Disable

Band: ☒ 2.4 GHz ☐ 5 GHz

802.11 mode:

Channel:

Encryption:

Key:   
☒ Hide characters

Channel Bandwidth: ☐ 20MHz ☒ Auto

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## 7.4.5 SNMP Setup

### < SNMP V3 >

- Enable/Disable the SNMPv3 service.
- User Name: configure the user name to manage this device via SNMP.
- Auth Password: configure the Auth password.
- Priv Password: configure the Priv password.
- Trap Destination: configure the IP address of the trap receiver.

### < Apply >

- Confirm and save all modifications.

### < Cancel >

- Cancel all modifications.

**Note:** You can download the SNMP MIB file from

<http://www.mirrorop.com/WiPG-1600/>.

## 7.4.6 OSD Setup

Click [OSD Setup], and you can change the standby image and related settings.

### < Change Standby Image >

- **Restore to default:** Restore the standby image to the default one.
- **Browse:** Browse and choose an image file you wish to display on the standby screen.
- **Image File Upload:** Upload the image file you have selected.

### < Change Screen Saver Logo >

- **Restore to default:** Restore the screen saver logo to the default one.
- **Browse:** Browse and choose an image file you wish to display as the screen saver logo.
- **Image File Upload:** Upload the image file you have selected.

### < Display Option >

- **Device Information:** “Show All” or “Hide All” [The default value is “Show All”]
- **User-List:** “Enable” (show the user-list) or “Disable” (hide the user-list) [The default value is “Enable”]
- **Connection Info:** “Enable” (show the overlay connection info) or “Disable” (hide the overlay connection info) [The default value is “Enable”]
- **Font Color:** Adjust the font color of system information [The default value is white (#FFFFFF)]
- **Screen Saver Settings:** (a) “Enable” or “Disable” the screen saver [The default value is “Enable”]; (b) Configure the “Idle Time” (minutes) [The default value is 5 mins]

#### < Apply >

- Confirm and save all modifications.

#### < Cancel >

- Cancel all modifications.

wePresent > Admin > OSD Setup Logout

**System Status**  
**Device Setup**  
**Network Setup**  
**WiFi Setup**  
**SNMP Setup**  
**OSD Setup**  
**WebSlides Setup**  
**Certificate Setup**  
**Change Passwords**  
**Reset to Default**  
**Firmware Upgrade**  
 Reboot System

**Change Standby Image**

Image Name: Default  
 Restore to default  
 File Name:  Browse...  
 Image File Upload  
 The image file need to be PNG format and the maximum file size is 5MB.  
 (Recommended image resolution: 1920x1080)

**Change Screen Saver Logo**

Image Name: Default  
 Restore to default  
 File Name:  Browse...  
 Logo File Upload  
 The image file need to be PNG format and the maximum file size is 500K.  
 Recommended image resolution: 192\*192

**Display Option**

Device Information: ☒ Show All ☐ Hide All  
 User-List: ☒ Enable ☐ Disable  
 Connect info: ☒ Enable ☐ Disable  
 Display timeout:  (0~300 seconds)  
 Font color:    
 Screen Saver: ☒ Enable ☐ Disable  
 Screen Saver Settings: Idle Time (Minutes)   
 Apply Cancel

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## 7.4.7 WebSlides Setup

Click [WebSlides Setup] to set up the WebSlides function.

< **Auto Refresh Interval** >: Choose “Manual Refresh”, “10”, “20”, “30”, “45”, “60” or “90” seconds refresh interval

< **Access Password Control** >: Choose “Disable”, “Use the same password as Code” or “Use the following Code”

< **Apply** >

- Confirm and save all modifications.

< **Cancel** >

- Cancel all modifications.

wePresent > Admin > WebSlides Setup [Logout](#)

**System Status**  
**Device Setup**  
**Network Setup**  
**WiFi Setup**  
**SNMP Setup**  
**OSD Setup**  
**WebSlides Setup**  
**Certificate Setup**  
**Change Passwords**  
**Reset to Default**  
**Firmware Upgrade**  
 Reboot System

**Auto Refresh Interval (second)**

- ☒ Manual Refresh
- ☐ 10 \*recommended maximum concurrent users. (10)
- ☐ 20 \*recommended maximum concurrent users. (15)
- ☐ 30 \*recommended maximum concurrent users. (20)
- ☐ 45 \*recommended maximum concurrent users. (25)
- ☐ 60 \*recommended maximum concurrent users. (30)
- ☐ 90 \*recommended maximum concurrent users. (35)

**Access Password Control**

- ☒ Disable
- ☐ Use the same password as "Code"
- ☐ Use the following Code:  (0-9)

**Note**  
 If there are more than 10 concurrent WebSlides users, it is recommended to connect WiPG-1600w to your company network via Ethernet, or set up a wireless router to connect to WiPG-1600w. Users should connect their devices to WiPG-1600w via their company network or a wireless router in order to secure the projection performance.

Apply Cancel

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### Note:

It is important to realize that all the WebSlides users consume wireless bandwidth. If there are more than 10 concurrent WebSlides users, it is recommended to connect WiPG-1600 to your company network via Ethernet, or set up a wireless router to connect to WiPG-1600. Then, users should connect their devices to WiPG-1600 via their company network or a wireless router in order to secure the projection performance. The number of concurrent WebSlides users should not exceed the recommended number shown on the WebSlides Setup page (displayed as above) to avoid connection failure or poor projection performance.

## 7.4.8 Certificate Setup

### < Generate Self-Signed Certificate >

- To generate a self-signed certificate, you need to provide the information on country name, state/province, city, organization, department, common name and email.

### < Apply >

- Confirm and save the information you have entered.

### < Cancel >

- Abort the action.

wePresent > Admin > Certificate Setup [Logout »](#)

**System Status**  
**Device Setup**  
**Network Setup**  
**WiFi Setup**  
**SNMP Setup**  
**OSD Setup**  
**WebSlides Setup**  
**Certificate Setup**  
**Change Passwords**  
**Reset to Default**  
**Firmware Upgrade**  
 Reboot System

**Generate Self-Signed Certificate**

Country Name : (2 letter code) [AU]	<input type="text"/>
State / Province :	<input type="text"/>
City :	<input type="text"/>
Organization :	<input type="text"/>
Department :	<input type="text"/>
Common Name : (e.g. Server FQDN)	<input type="text"/>
Email :	<input type="text"/>

Note:  
 1. NTP Server need to be configured correctly to have correct system time.  
 2. A valid and registered domain name for this device is required.

[Apply](#) [Cancel](#)

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## 7.4.9 Change Passwords

Click [Change Password], and you can change the password settings. (Length: up to 8 characters)

### < Conference Control >

- <Enter New Password>**: Enter the new password you want to use for "Conference Control".

- **<Confirm New Password>:** Confirm the new password by entering it once again.
- **<Apply>:** Confirm and save the new password.

#### < Admin >

- **<Enter New Password>:** Enter the new password you want to use for “Admin”.
- **<Confirm New Password>:** Confirm the new password by entering it once again.
- **<Apply>:** Confirm and save the new password.

wePresent > Admin > Change Passwords Logout

**System Status**  
**Device Setup**  
**Network Setup**  
**WiFi Setup**  
**SNMP Setup**  
**OSD Setup**  
**WebSlides Setup**  
**Certificate Setup**  
**Change Passwords**  
**Reset to Default**  
**Firmware Upgrade**

**Reboot System**

**Conference Control**

Enter New Password	<input type="text"/>	<b>Apply</b>
Confirm New Password	<input type="text"/>	

**Admin**

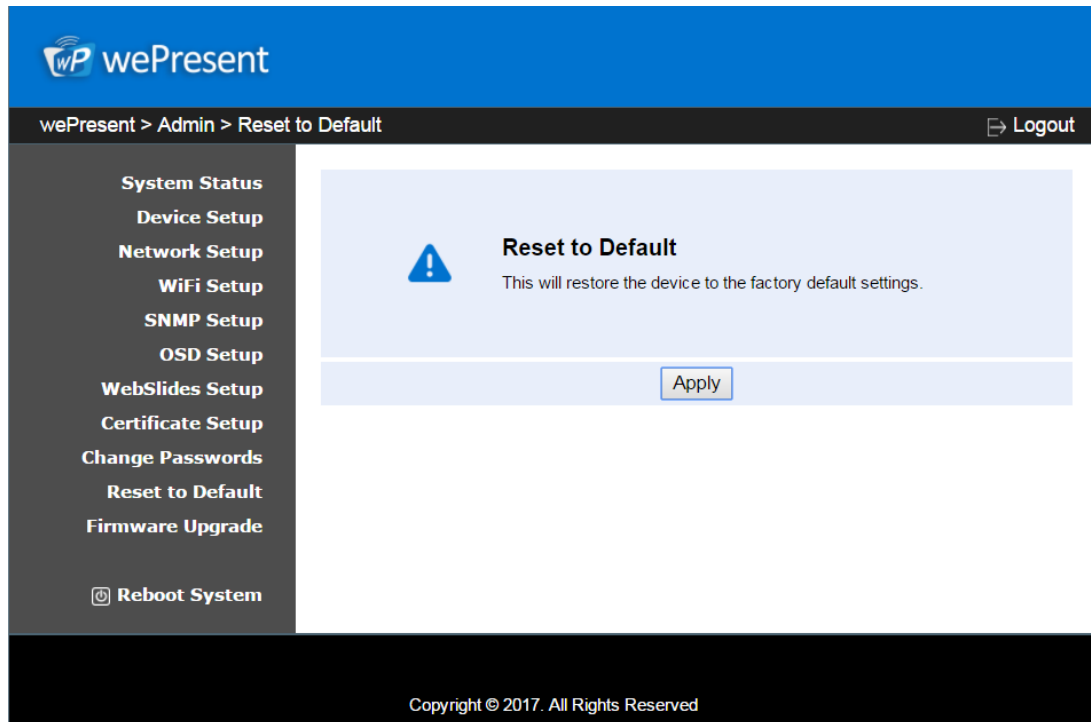
Enter New Password	<input type="text"/>	<b>Apply</b>
Confirm New Password	<input type="text"/>	

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### 7.4.10 Reset to Default

Click [Reset to Default] to restore your WiPG-1600 device to the factory default settings.

**<Apply>:** Confirm to perform the reset.



**\*\*\* To perform a hard reset to restore your WiPG-1600 device to the factory default settings, please follow the below procedures:**

1. Long press the reset button (on the bottom side of the WiPG-1600) and hold.
2. Turn on the WiPG-1600 and wait for over 10 seconds until the LED indicator turns blue.
3. Release the reset button.
4. The WiPG-1600 will be restored to the factory default settings.

### 7.4.11 Firmware Upgrade

Click [Firmware Upgrade] to import/export the system configuration and upgrade the firmware.

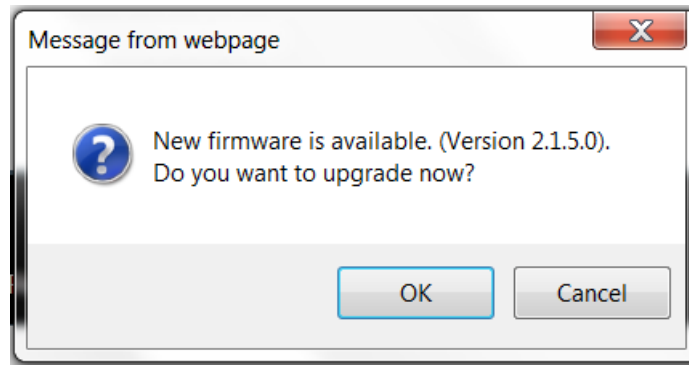
#### < System Configuration >

- **Export:** Export the current system configuration to a configuration file.
- **Import:** Import a system configuration file to WiPG-1600.

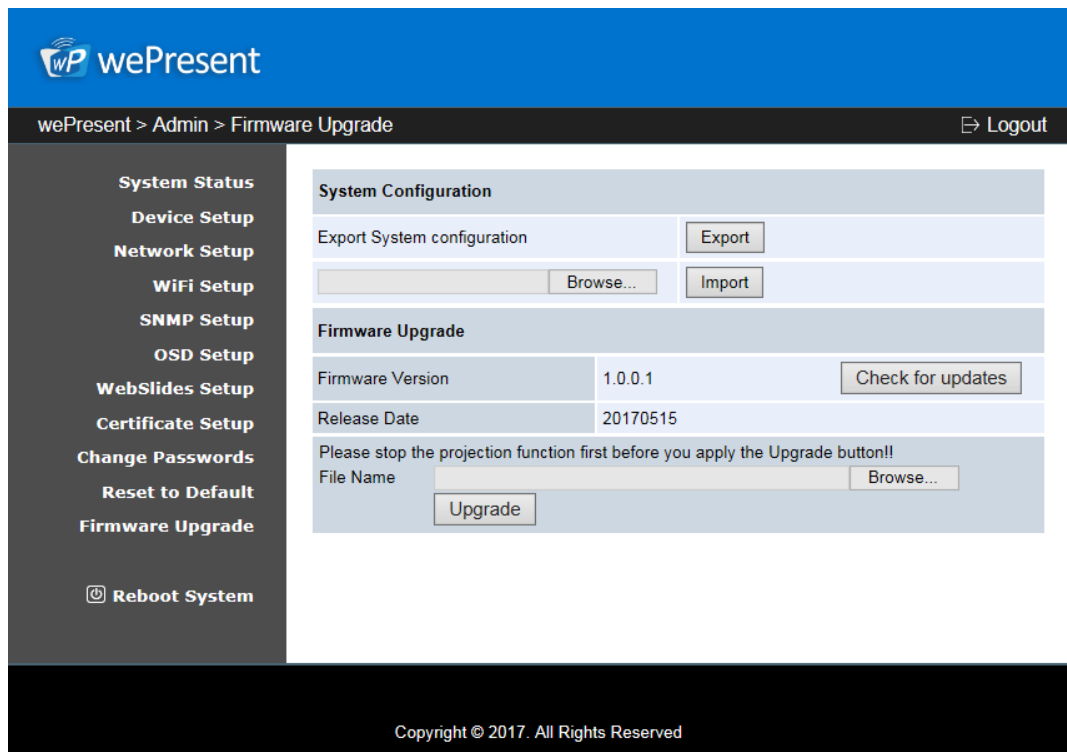
#### < Firmware Upgrade >:

- There are two ways to upgrade your firmware:

- (a) Click **“Check for updates”**. If a new firmware is available, you can update the software right away.



- (b) Firstly, you have to get the latest firmware image file from your vendor. Then, click **“Browse”** to select the firmware file you need, and click **“Upgrade”** to perform the upgrade.



**Warning:** Do not power off the WiPG-1600 device while the firmware upgrade is in progress; otherwise your WiPG-1600 device may crash and you have to return the device to your vendor for repair.



wePresent > Admin > Firmware Upgrade



**Please wait while System burns new firmware into your device.**

Warning: It needs to take 5~10 minutes to burn the file you transferred into flash memory. **During this period, any interrupt such as shut down or reboot the system will cause system crash!!**

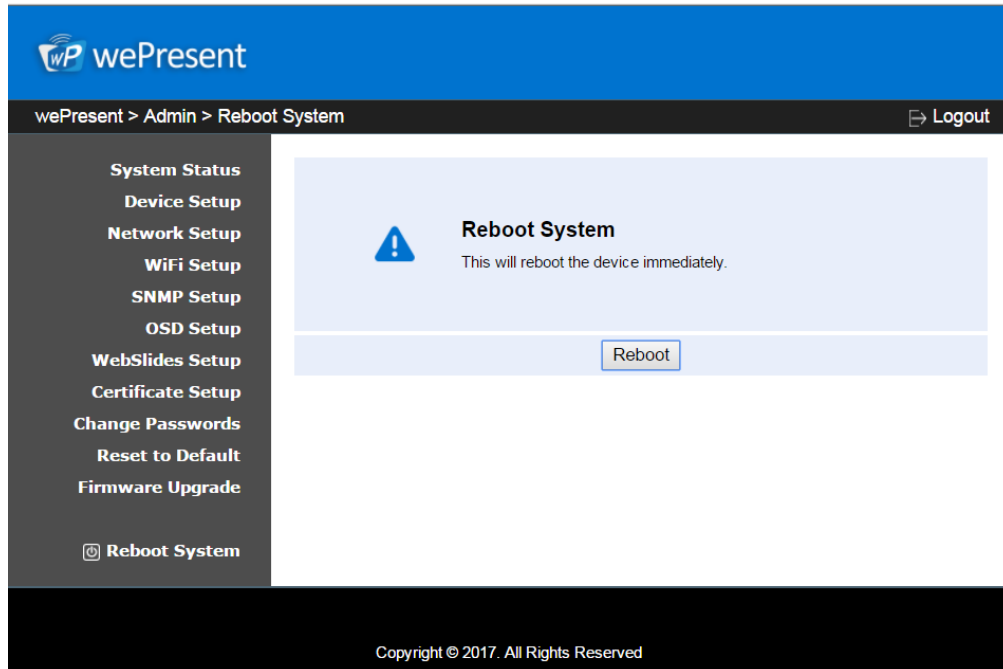
Update Progress: : 76%

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### 7.4.12 Reboot System

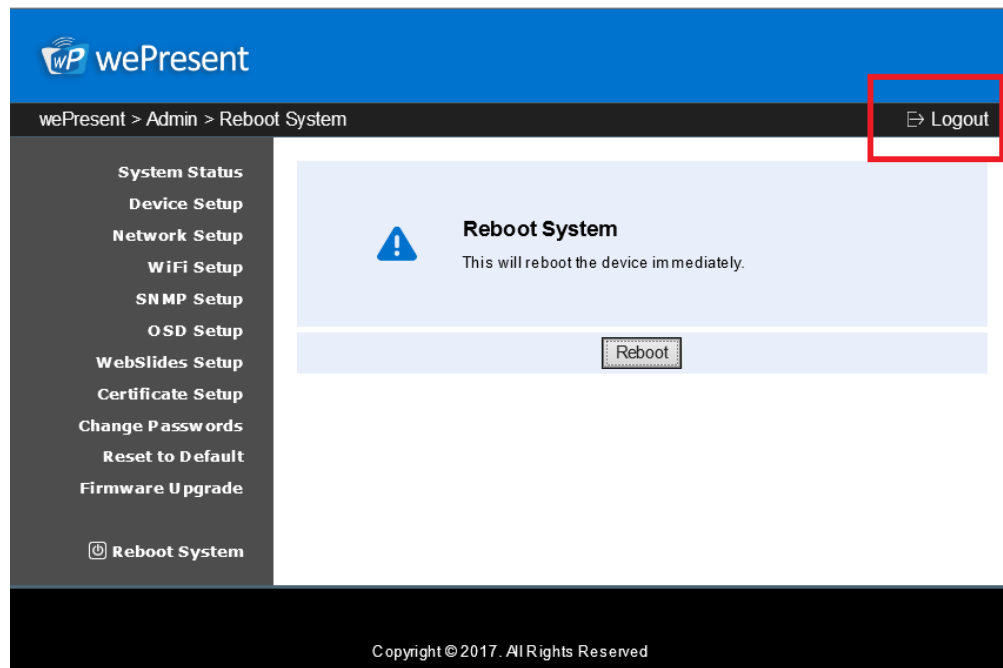
Click [Reboot System], and you can restart the system.

<Reboot>: Reboot the system automatically.




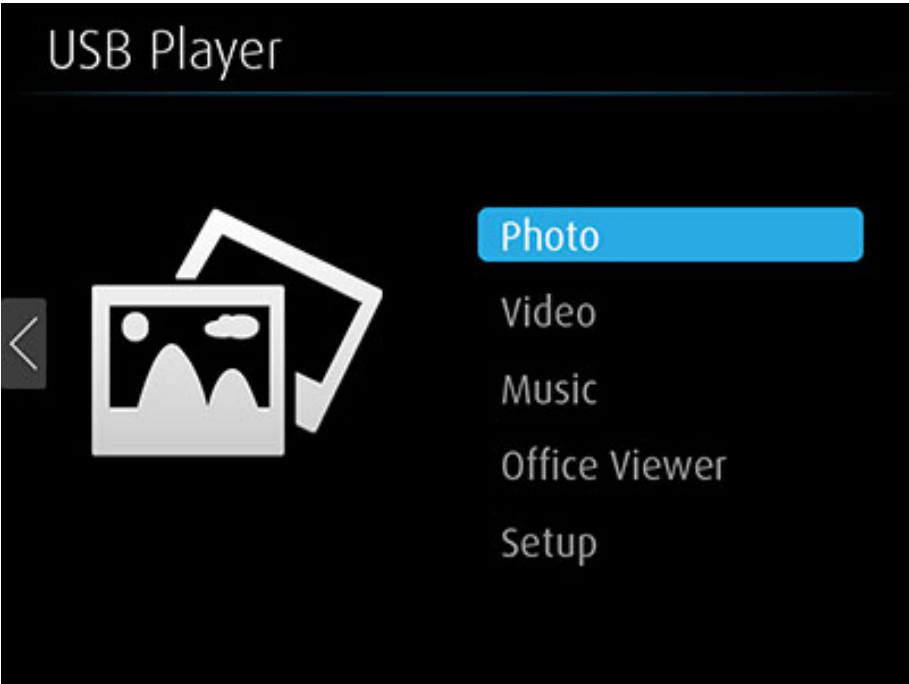
### 7.4.13 Logout


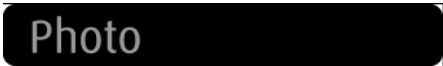
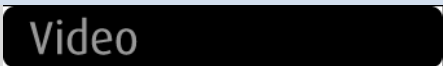

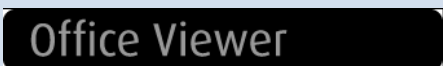

Click [Logout] (on the upper-right corner of the screen), and you can log out of the admin page (and return to the web management front page).



# 8 USB Player

Click the “USB Player”  button on the standby screen, and you can playback photo/video/music /office files (stored on the USB drive attached to the WiPG-1600 device).

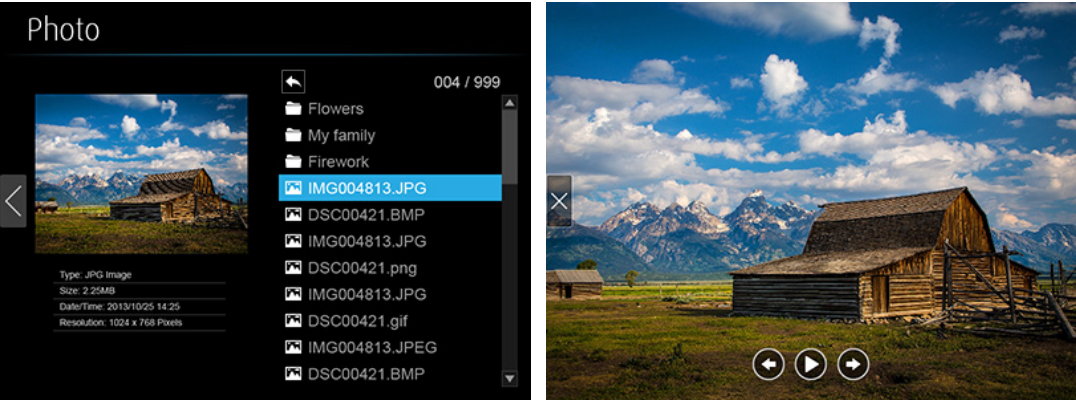








Button	Description
	Return to the standby screen
	Enter the Photo Viewer function.
	Enter the Video Player function.
	Enter the Music Player function.
	Enter the Office Viewer function.
	Enter the Setup Page.



## 8.1 Photo Viewer

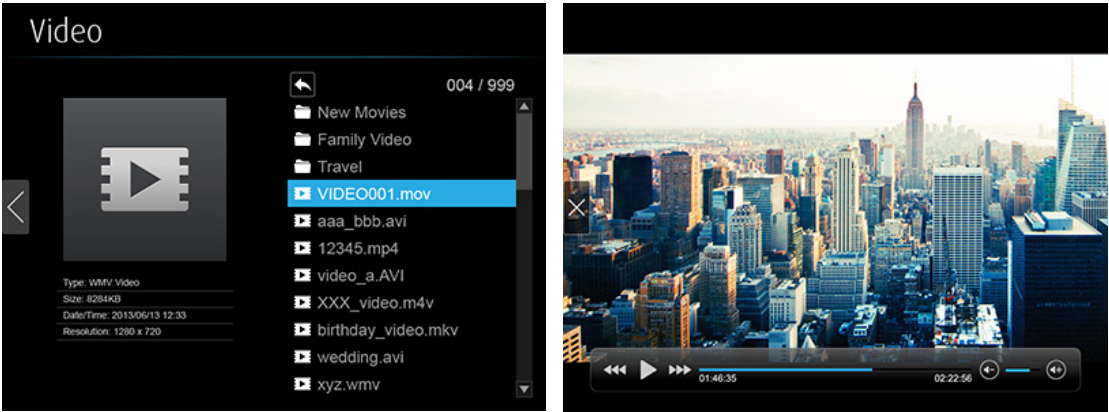
Click the “Photo” button, and find the photo you want to show on the display.








Button	Description
	Exit this file
	Go to the previous file
	Start/Pause the slideshow
	Go to the next file
	Rotate the photo counter-clockwise
	Rotate the photo clockwise

## 8.2 Video Player

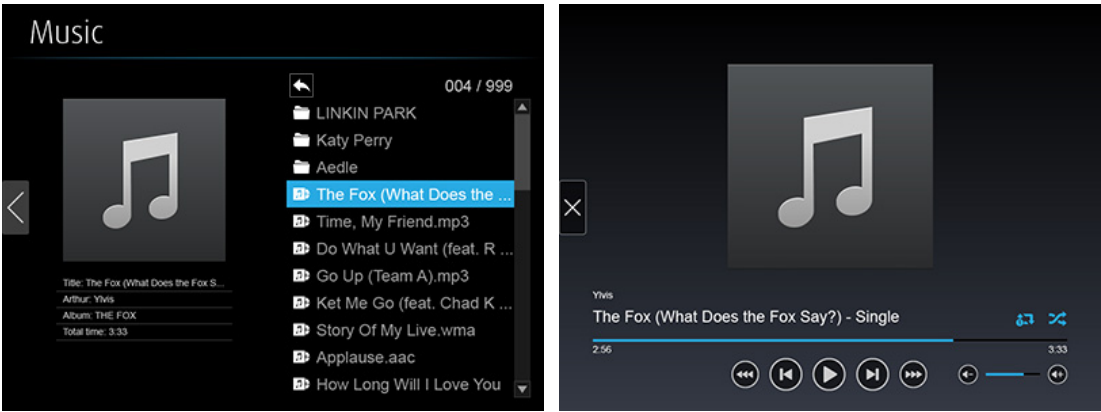
Click the “Video” button, and find the video you want to play on the display.












Button	Description
	Exit this file
	Fast-rewind (2x/4x/8x)
	Play/Pause
	Fast-forward (2x/4x/8x)
	Increase/Decrease the volume

### 8.3 Music Player

Click the “Music” button, and select the music you want to play.







Button	Description
	Exit this file
	Fast-rewind (2x/4x/8x)

	Go to the previous file
	Play/Pause
	Go to the next file
	Fast-forward (2x/4x/8x)
	Increase/Decrease the volume
	Repeat all songs in the folder/Repeat one song
	Shuffle

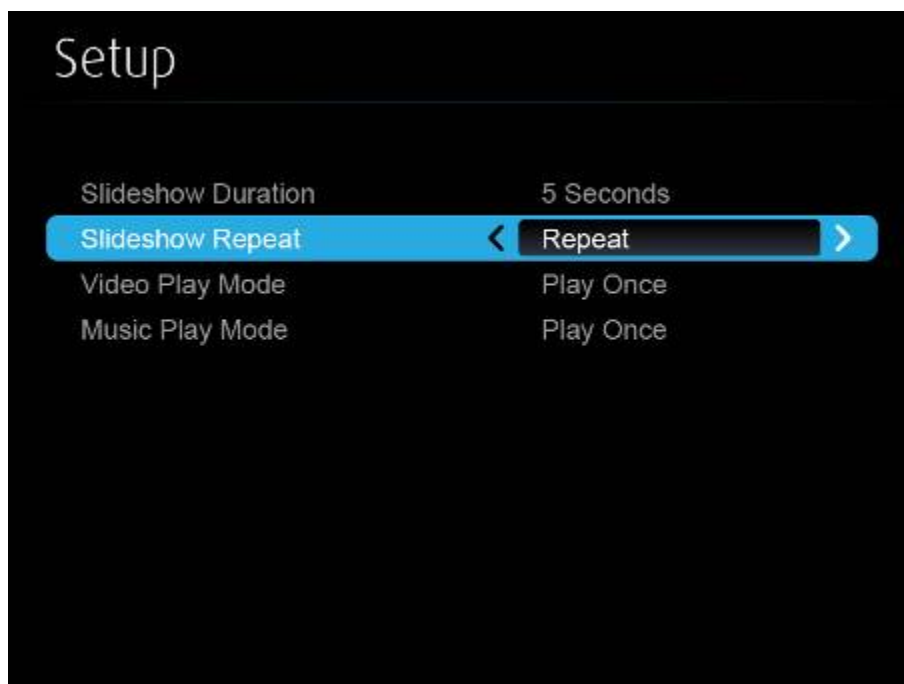
8.4 Office Viewer

Click the “Office Viewer” button, and find the Office file you want to show on the display.



Button	Description
	Exit this file
	Go to the previous page
	Go to the next page
	View all pages of this file in thumbnail form

## 8.5 Setup



Item	Description
Slideshow Duration	5/10/20/30 seconds.
Slideshow Repeat	Play once/Repeat
Video Play Mode	Play once/Repeat
Music Play Mode	Play once/Repeat once/Repeat folder/Shuffle

### Note:

Item	Value
Supported File Format	MPEG-1 / MPEG-2 / MPEG-2 TS / MPEG-4 / MWV9 / MOV / Motion JPEG / MKV / ASF / DVR-M5
Supported Video Codec	MPEG-1 / MPEG-2 / MPEG-2 TS / MPEG-4* / WMV9** / QuickTime / Motion JPEG * Microsoft MPEG-4 v1-3 is not supported. ** Only WMV3/WVC1 is supported.
Supported Audio Codec	LPCM / AAC / MP3 / WMA
Supported Office Format	Word, Excel, PowerPoint (up to Office 2010), PDF.

\* All formats support up to 1920x1080 resolution at 30fps and 20Mbps.

\* These file formats may include video and audio codecs which are not supported.

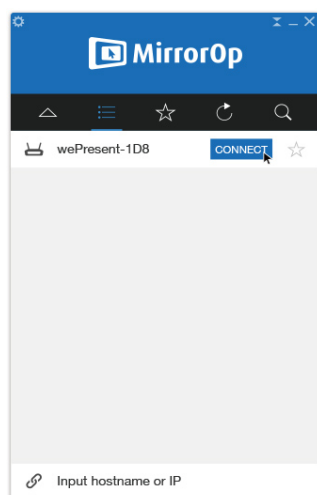
# 9

## Using MirrorOp (Sender) to Start Projection

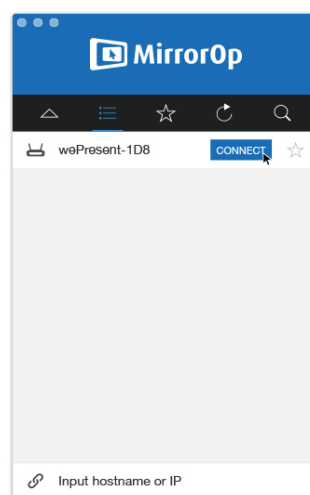
### 9.1 Start the MirrorOp application

- Make sure that the MirrorOp app is not blocked by your firewall.


1) When the MirrorOp app download is complete, double click on the file to run it. You will see the user interface of MirrorOp as shown below.

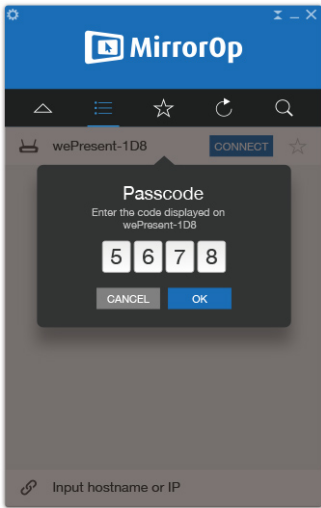


Windows

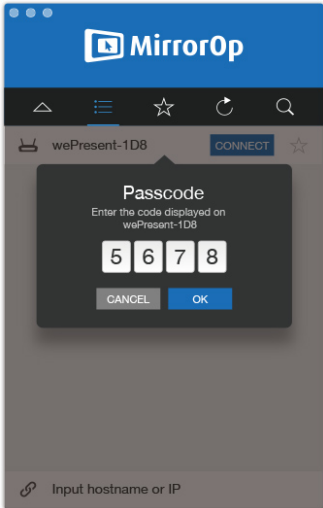


Mac


2) The MirrorOp app will automatically locate the WiPG-1600. (If not, you can click  or input the hostname/IP in the text box to connect to the device.) Enter the passcode shown on the standby screen of the projector/display.

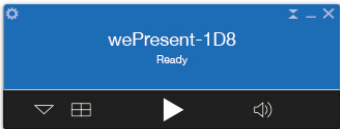


Windows

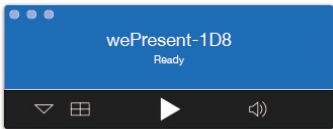


Mac

3) Click  and start sharing your screen.

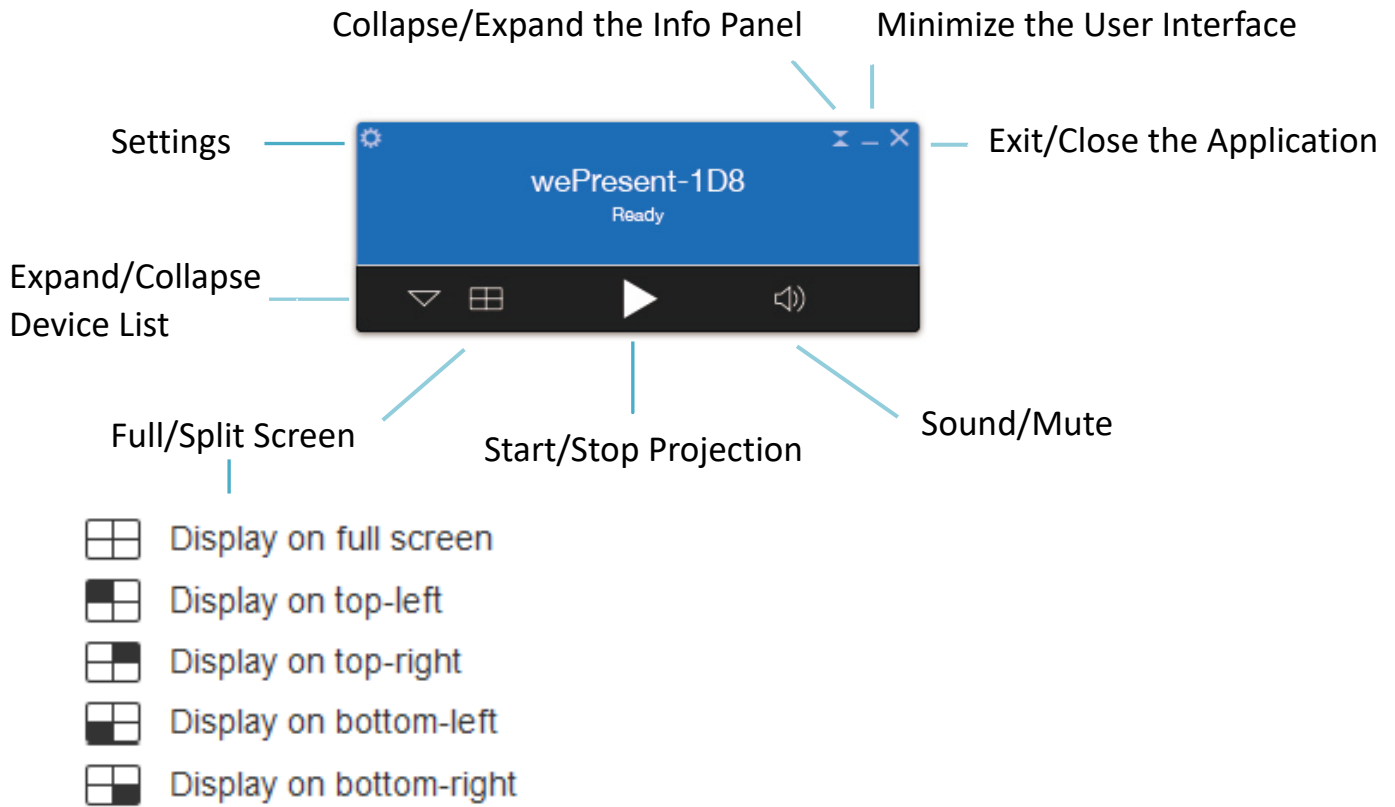


Windows




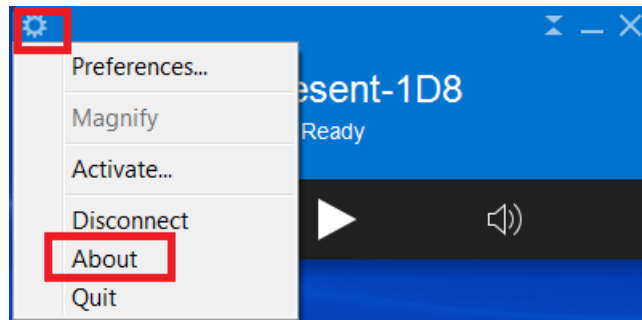
Mac

## 9.2 Main User Interface of MirrorOp (Sender)

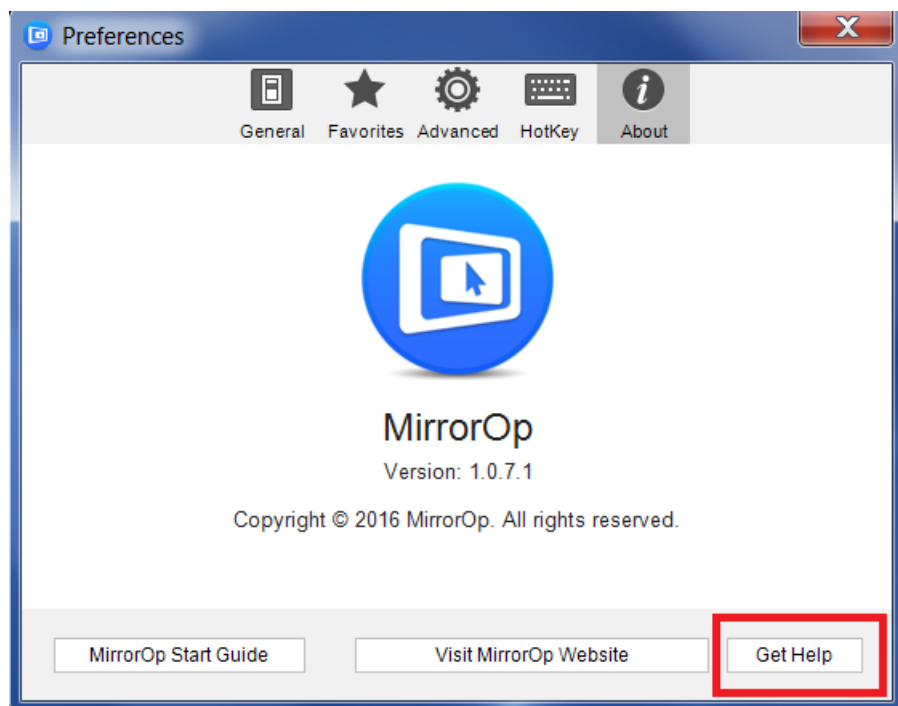


### 9.3 A Complete User's Guide on MirrorOp (Sender)

- 1) For a complete user's manual on MirrorOp (Sender), click the "Settings" icon  on the upper-left corner of the info panel. Then, click "About" in the menu bar.



- 2) Click "Get Help" on the lower-right corner of the screen, and then you can view the "MirrorOp User's Manual".



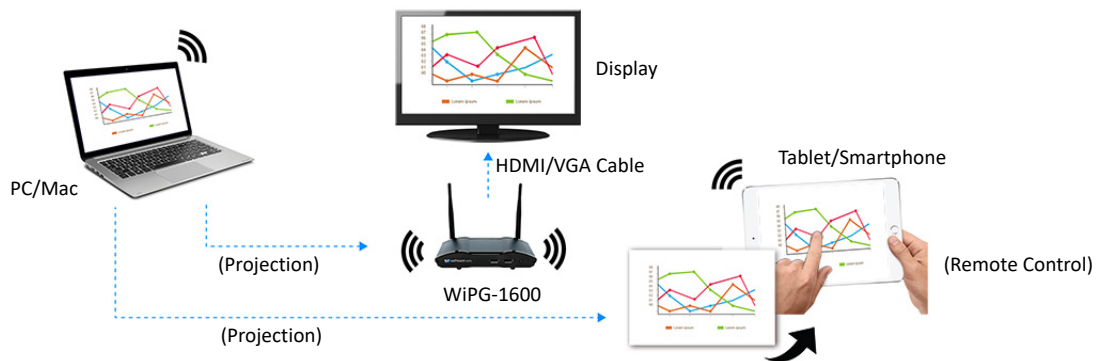
**Note:** You can also download the User's Manual for MirrorOp (Sender) from <http://www.mirrorop.com/WiPG-1600/>.



# 10 Use the SidePad Function with MirrorOp


## Receiver

- 1) **Introduction:** SidePad is a feature that allows controlling the presenting PC/Mac from an iOS/Android device running the MirrorOp Receiver app.

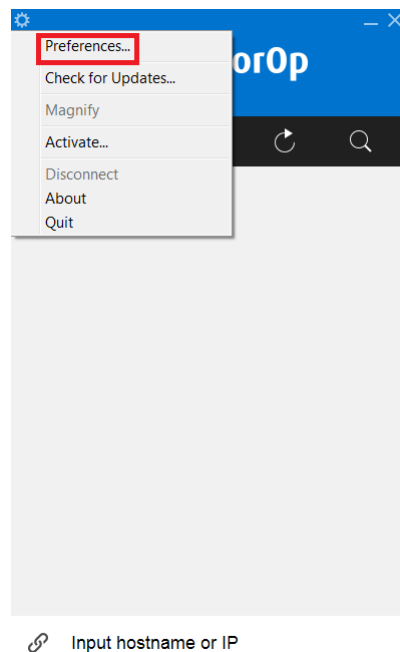


- 2) How to use the SidePad function:

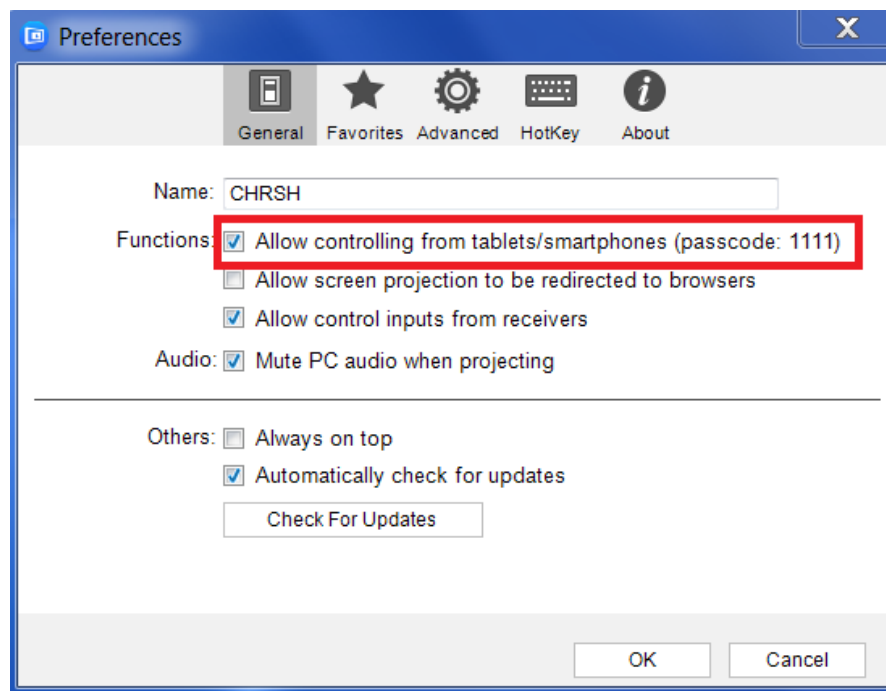
### A. PC/Mac running the MirrorOp (Sender) app

- Click the “Settings” icon  on the upper-left corner of the info panel.

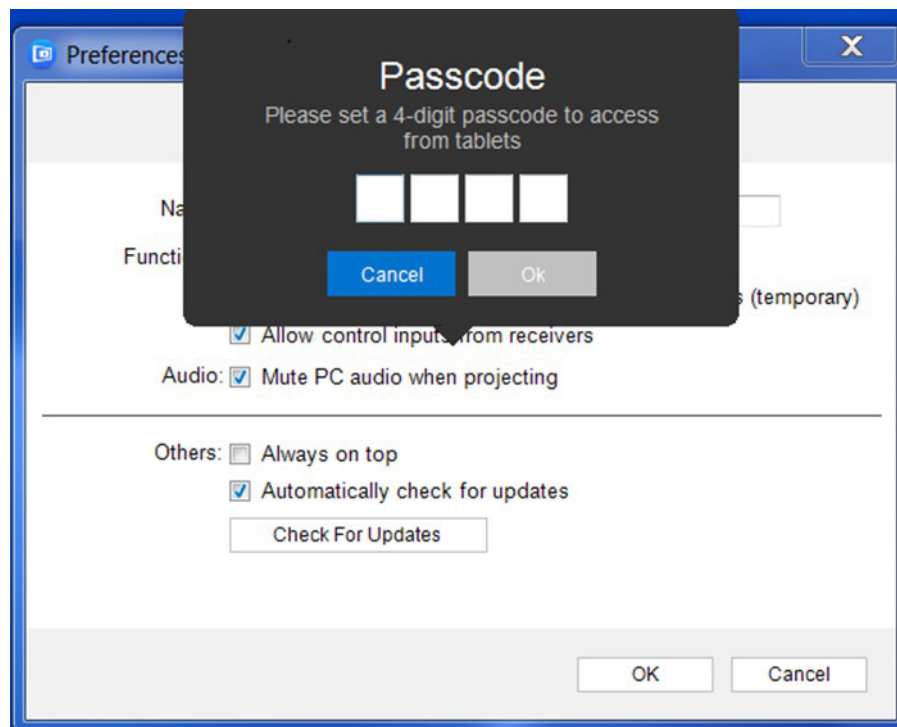
Then, click “Preferences” in the menu bar.



- Check “Allow controlling from tablets/smartphones”.



- Set the passcode (default passcode: 1111).

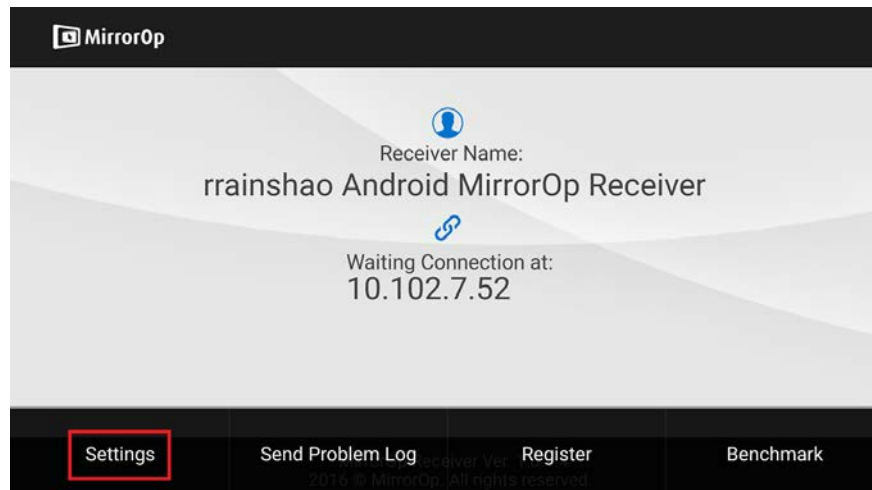


## B. Tablet/Smartphone running the “MirrorOp Receiver” app

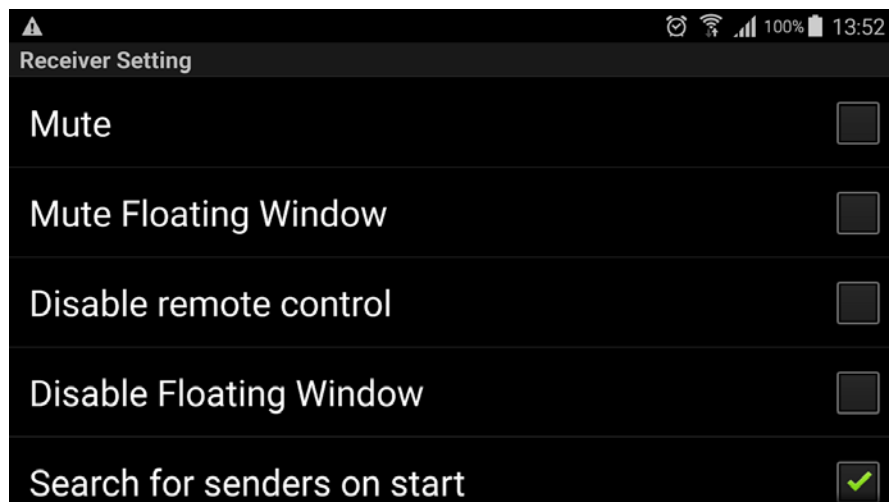
### Android

- Install the “MirrorOp Receiver” app from the Google Play store.
- Open the “MirrorOp Receiver” app. Long-press the Menu button on your

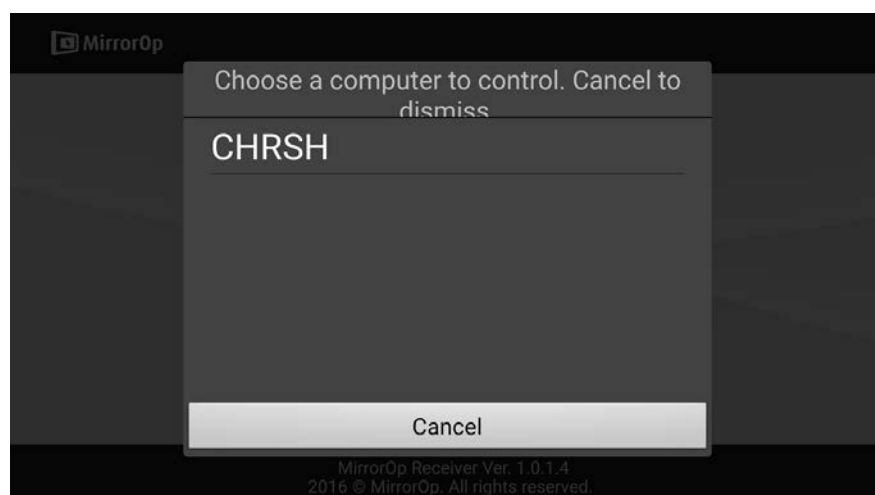
Android device, and click “Settings”.



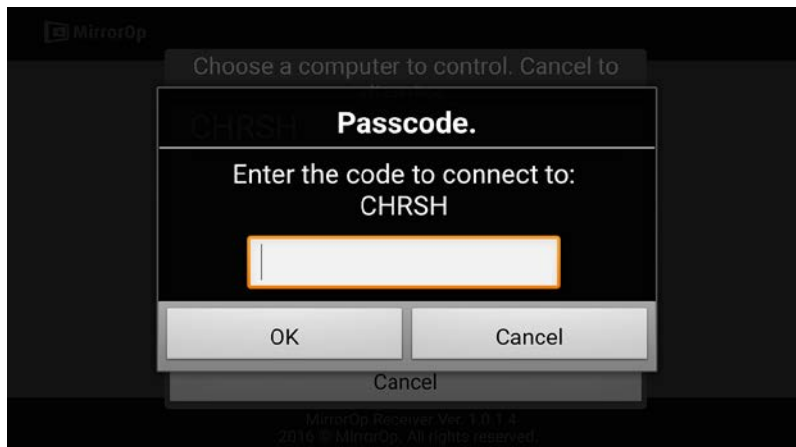
- Check “Search for senders on start”.



- Close MirrorOp Receiver and re-open it.
- You will see the name of the PC/Mac with the MirrorOp (Sender) app installed.




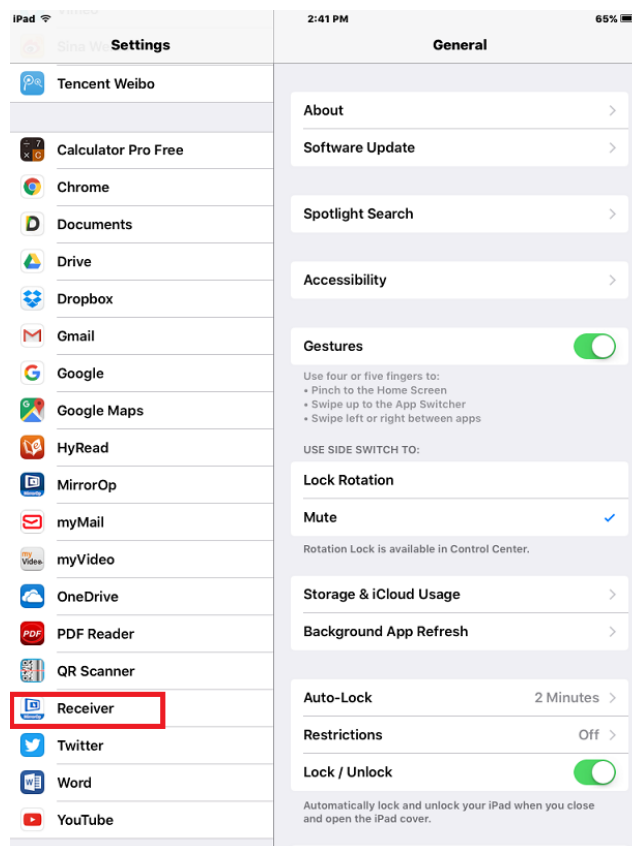
- Select which PC/Mac you want to control and enter the passcode you set earlier.



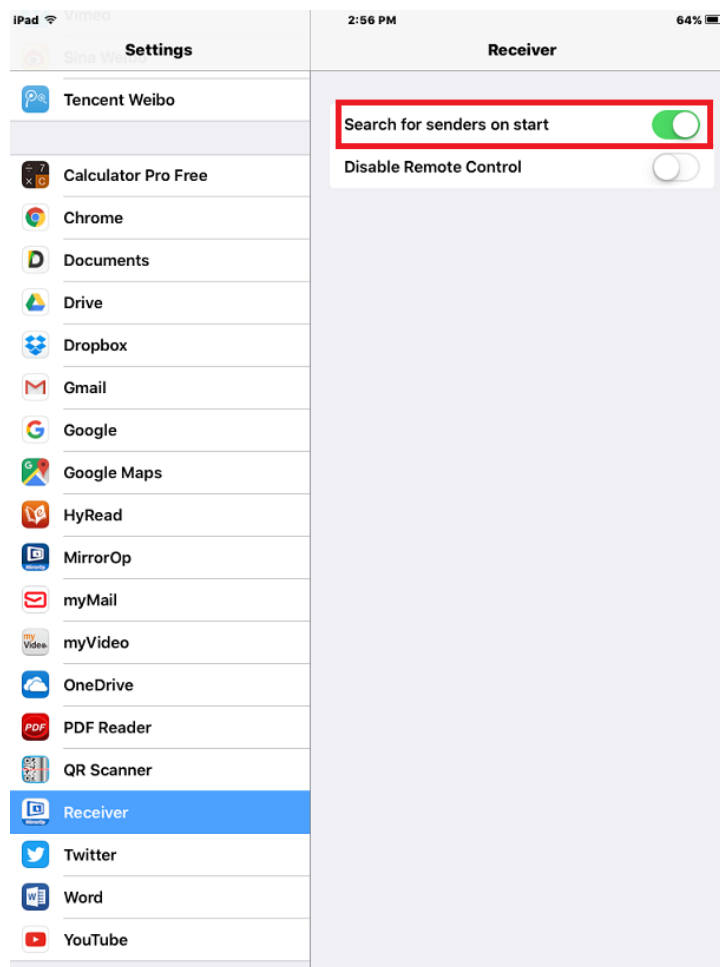
- Now you are able to remotely control the Mac/PC from your tablet/smartphone.

### iOS

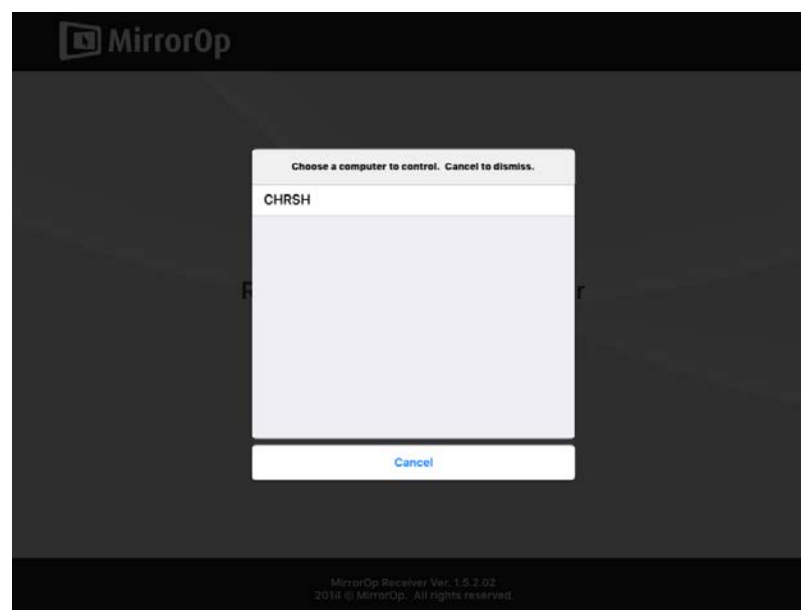
- Install the “MirrorOp Receiver” app from the Apple App store.
- Go to “Settings”  on your iOS device, and click “(MirrorOp) Receiver”.



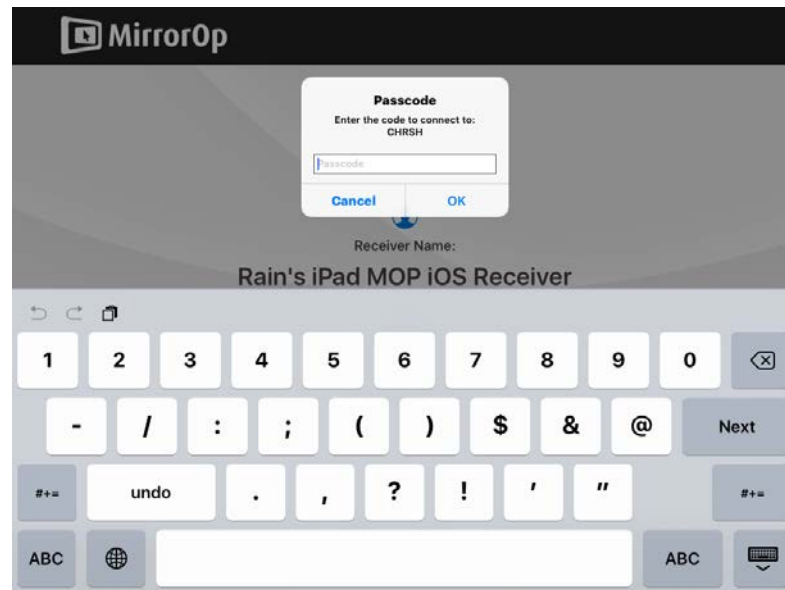
- Enable “Search for senders on start”.



- Open the “MirrorOp Receiver” app.
- You will see the name of the PC/Mac with the MirrorOp (Sender) app installed.



- Select which PC/Mac you want to control and enter the passcode you set earlier.



- Now you are able to remotely control the Mac/PC from your tablet/smartphone.

# 11

## Launch WebSlides

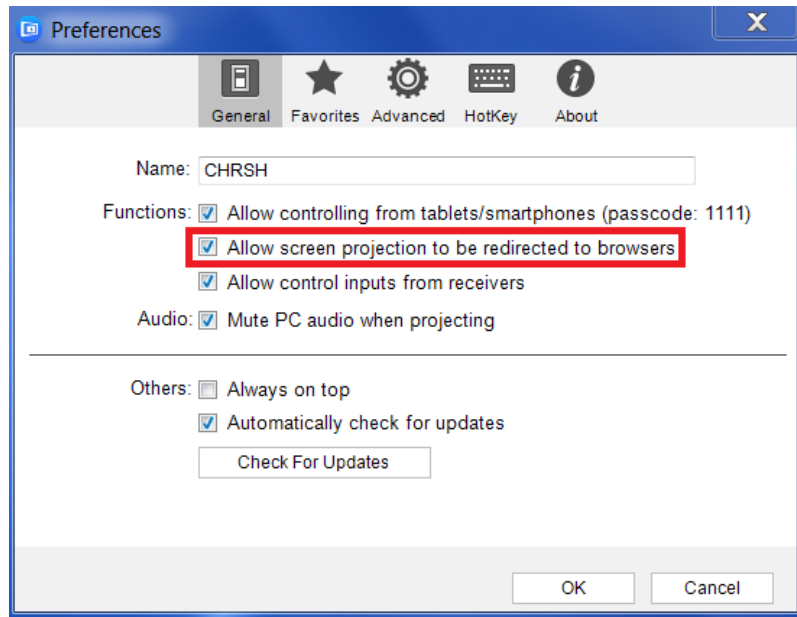
**Introduction:** The WebSlides function allows the presenter (PC/Mac with the MirrorOp Sender app installed) to broadcast the projecting screen/slides to the audience (multiple login devices) during a presentation, so that the audience can save the slides for note-taking later.



- Connect your mobile device to WiPG-1600 via WiFi.
- Open your web browser, and enter the IP address of WiPG-1600.
- View the presenting slides on your device...save the slides as JPG files for note-taking, annotation or others.
- A new way of paper-less meeting.

### 1) Presenter (sender device):

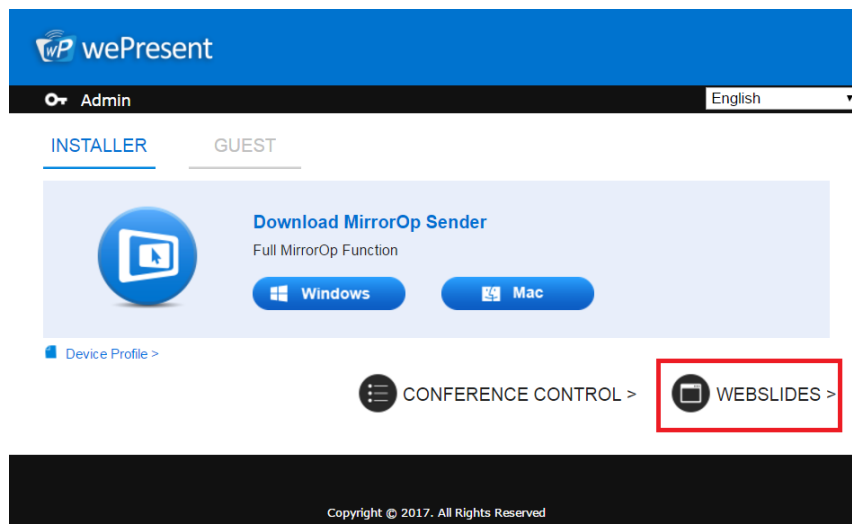
- Your PC/Mac needs to connect to the WiPG-1600 device via WiFi.
- Make sure the WebSlides function is enabled by the MirrorOp Sender app.




Note: Any Android/iOS device with the MirrorOp Presenter app installed can also operate as a sender device.

## 2) Audience:

- The audience also need to connect to WiPG-1600 via WiFi.
- Open the browser of the audience's devices, and enter the IP address of WiPG-1600 in the address bar of the browser. **[Default address is 192.168.100.10]**
- The below image will appear on the audience's devices. Click "Webslides" on the middle-right of the screen.







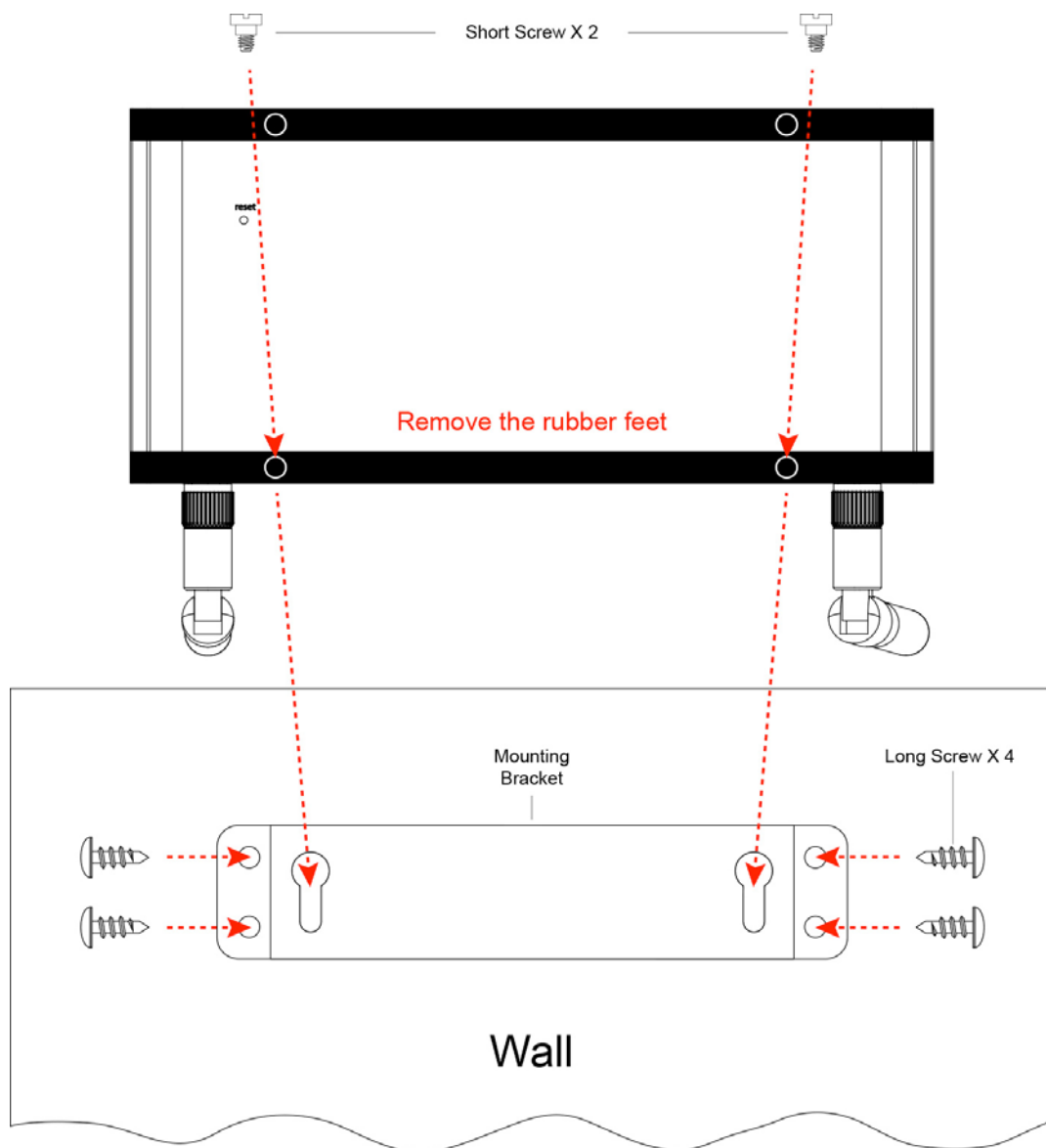
- The audience will see the below image on their devices, and they can start to receive the projecting screen/slides. They can save the projecting screen (for note-taking later) by clicking  in the menu bar at the top of the screen.



# 12

## Wall-Mount Kit

1. Replace two of the rubber feet (on the bottom side of the WiPG-1600 device) with the two short screws (  ).
2. Install the mounting bracket on the wall with the four long screws (  ).
3. Secure the WiPG-1600 device to the mounting bracket.



# 13

## Frequently Asked Questions

**Q: Why can't I access the WiPG-1600 web UI (user interface) through a web browser?**

**A:** This may be caused by the sender device (PC/Mac/mobile device) and the receiver device (WiPG-1600) not being connected to the intranet. To troubleshoot intranet connects, use the following steps:

- Set the WiPG-1600 as an access point (AP) and connect your sender device to the WiPG-1600's WiFi.
- Connect your sender device to the WiPG-1600 via a router.
- Use an Ethernet cable to connect your sender device to the WiPG-1600.

**Q: Why can't the MirrorOp app find the WiPG-1600 device?**

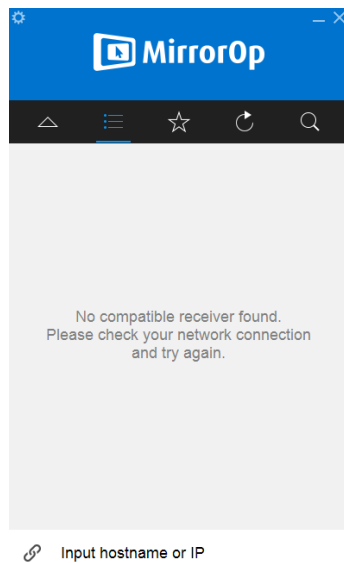
**A:** This may be caused by the sender device (PC/Mac/mobile device) and the receiver device (WiPG-1600) are not on the same subnet. To troubleshoot subnet connects, use the following steps:

- Set the WiPG-1600 as an access point (AP), and connect your sender device to the WiPG-1600's WiFi.
- Connect your sender device to the WiPG-1600 via a router. Make sure an IP address is assigned automatically (via DHCP from the router).
- Use an Ethernet cable to connect your sender device to the WiPG-1600.

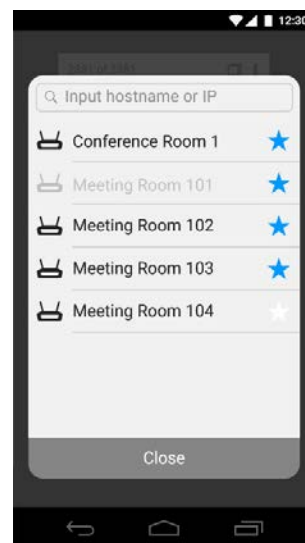
You can check if your sender device and the WiPG-1600 are on the same subnet by comparing the IP address of the sender device with that of the WiPG-1600. The WiPG-1600 IP address is shown on the standby screen of the projector/display. The first three sections of the IP should be identical, with only the last section being different. (e.g.: IP address of the sender device is 192.168.100.11, IP of the WiPG-1600 is 192.168.100.10.)

**Q: What can I do if my network does not allow the sender and receiver devices to be on the same subnet?**

**A:** This sometimes happens in the network configurations of schools or offices where you just cannot change the settings of the networks you can connect to. If the receiver device (WiPG-1600) is not on the same subnet as the sender device (PC/Mac/mobile device), you can manually enter the IP address of the receiver device in the “Input hostname or IP” field on the user interface of MirrorOp to locate the WiPG-1600.



MirrorOp Sender



MirrorOp Presenter

**Q: Why does the WiPG-1600 lag from time to time?**

**A:** This may be caused by WiFi interference. Our advice is as follows:

- If there are multiple wireless APs in your company/school network, it is recommended that your sender device (PC/Mac/mobile device) should connect to whichever AP has the strongest signal.
- If your sender device connects to the WiPG-1600's WiFi (the WiPG-1600 acts as an AP), make sure that your sender device is not too far away from the WiPG-1600. Avoid physical interference such as walls or other solid objects in the wireless coverage.

- If multiple APs on your company/school network use the 2.4GHz band (note: WiPG-1600 uses 5GHz by default), configure the APs to use different WiFi channels. Channel 1, 6, and 11 are recommended as they do not non-overlap 2.4GHz band channels.

**Q: Why does the WiPG-1600 still lag when my sender device and the WiPG-1600 are connected via LAN?**

**A:** This may be caused by insufficient bandwidth. A common scenario is that when you project a high-resolution photo/video from your computer to the display, a “yellow turtle” icon appears on your computer screen, which denotes lagging in performance. Lowering your computer’s resolution before starting the projection often resolves this problem.

# 14

## Disposal Information

### Disposal of the product

#### (Waste Electrical and Electronic Equipment)



■ This symbol on the product indicates that, under the European Directive 2012/19/EU governing waste from electrical and electronic equipment, this product must not be disposed of with other municipal waste. Please dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

For more information about recycling of this product, please contact your local city office or your municipal waste disposal service. For details, please visit the Barco website at: <http://www.barco.com/en/AboutBarco/weee>.