

User's Guide

TRENDnet[®]



4K Wireless HDMI Extender Kit w/ Audio Support

TWP-100R1K

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I. Product Information

The TWP-100R1K 4K Wireless HDMI Extender Kit offers efficiency and creativity with unprecedented 4K HD wireless presentation solution for business meetings and lectures.

Easy plug-and-play makes group presentations possible with just one click, users can cast, interact and receive high-quality imagery over multiple types of devices (desktop, laptop, tablet and mobile).

I-1. Package Contents

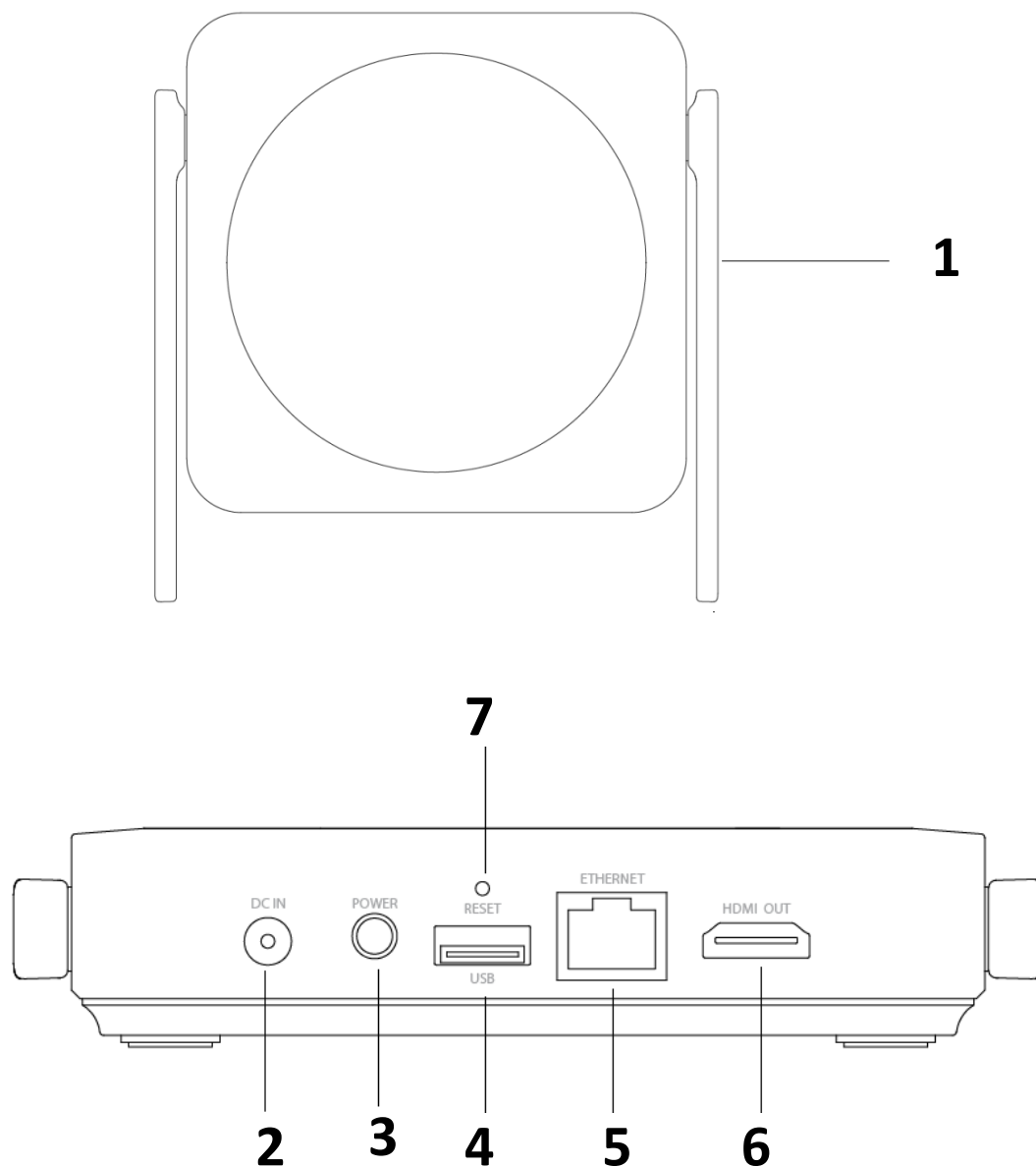
- TWP-100R1K (TWP-101R / TWP-101R)
- Quick Installation Guide
- HDMI cable (100cm/ 3ft)
- HDMI cable (30cm/ 1ft.)
- Universal Power Adapter (5V DC, 2A)

I-2. System Requirement

- Windows 8/10 32bit/64bit or above
- Mac 10.9 or above
- iOS 9 or above
- Android 5 or above

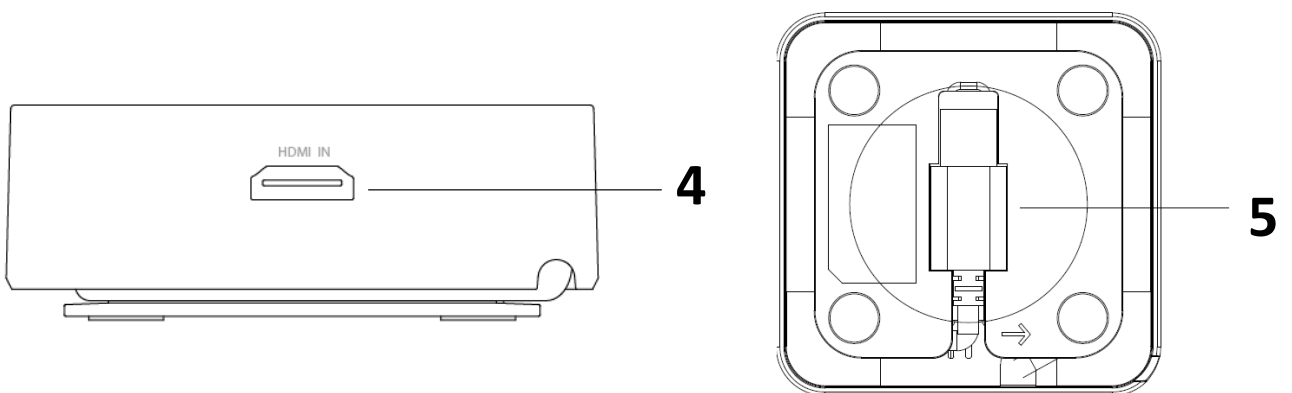
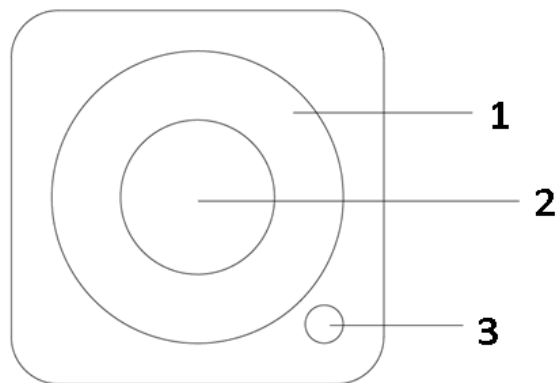
I-3. Hardware Interface

I-3-1. TWP-101R (RX) Overview



No.	Description
1	Antenna
2	Power Jack
3	Power Button
4	USB Port
5	Ethernet Port
6	HDMI Port
7	Reset Button

I-3-2. TWP-101T (TX) Overview



No.	Description
1	Status (Ring) LED
2	Main Button
3	Side Button
4	HDMI Port
5	USB Cable

I-4. LED Status

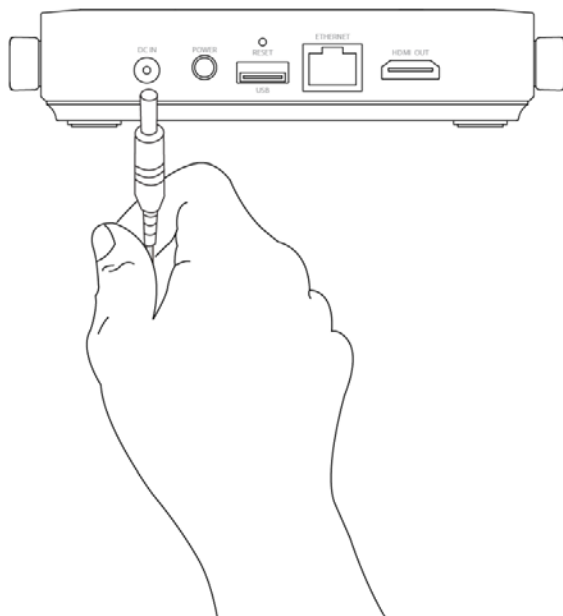
Ring Status	Ring Color	Side Button LED Color	Description
Off	N/A	Green	TX is in Host mode and not projecting.
Off	N/A	Red	TX is in Guest mode and not projecting.
On	White	Green	TX is in Host mode and projecting.
On	White	Red	TX is in Guest mode and projecting.
On	Red	Red	TX is in Guest mode and standby. Not projecting.
On	Red	Green	TX is in Host mode and standby. Not projecting.
Flashing	Red	Red	TX is in Guest mode and sending request.
Flashing	Red	Red and flashing	1. Under connection 2. Paring and in OTA 3. Connection failed
Flashing	Red	Off	TX OTA fails.
Flashing	White	Off	Paring is done.
Flashing	White	Off	TX OTA completes.

II. Hardware Installation

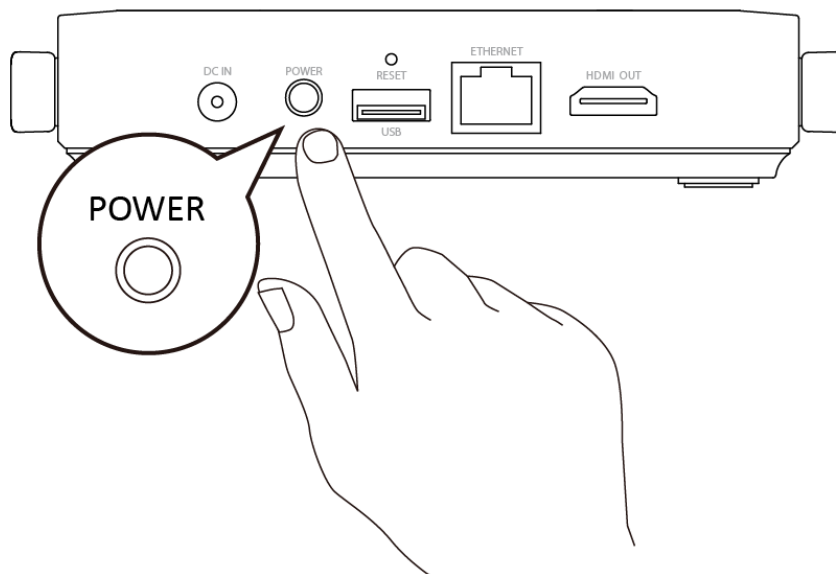
Please follow the steps below to install your TWP-100R1K.

II-1. TWP-101R Installation

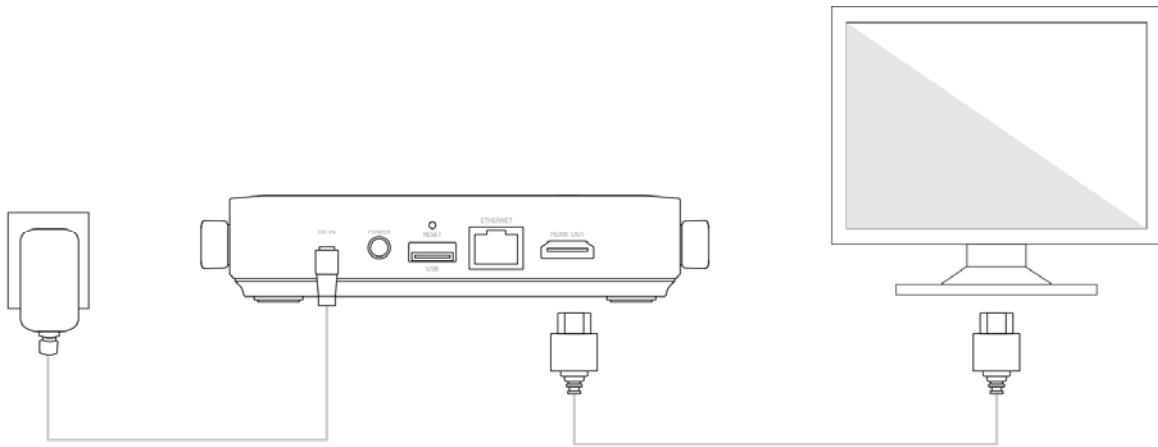
1. Attach the included power adapter to the device.



2. Press the Power Button at the back.

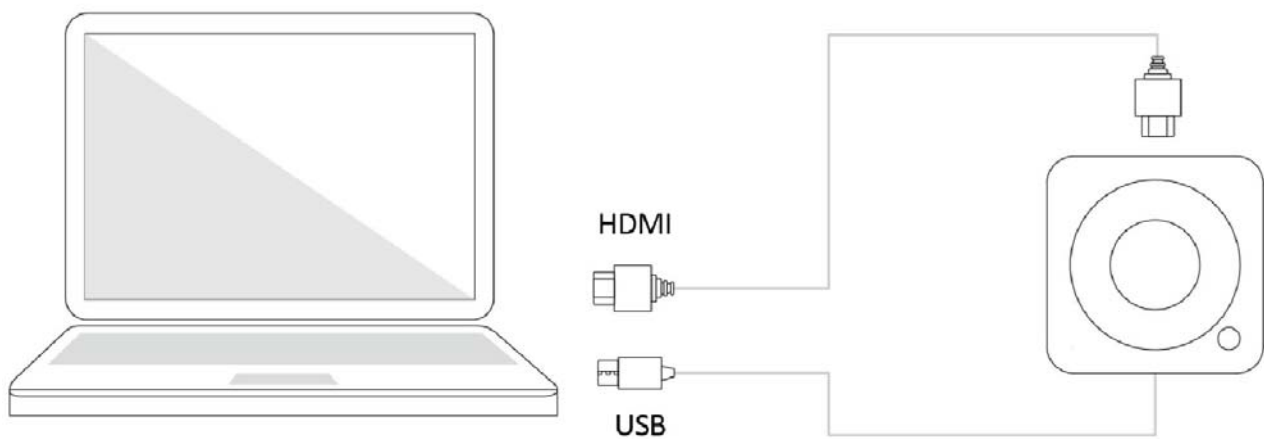


3. Plug HDMI cable into the device and projector's, TV's or monitor's HDMI port.



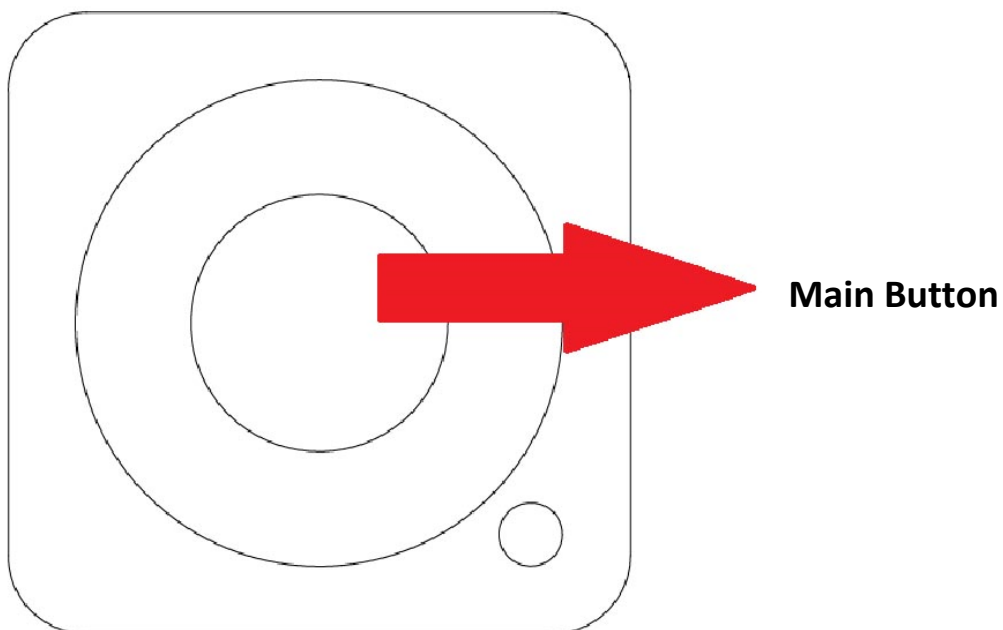
II-2. TWP-101T Installation

1. Connect TWP-101T's USB cable into your laptop USB port.
2. Connect the HDMI cable between TWP-101T and your laptop.



II-3. Share the Screen

1. Press the main button on the device to share your laptop screen to the projector, TV or monitor.
2. Press again the main button to disconnect.



III. Web Configuration

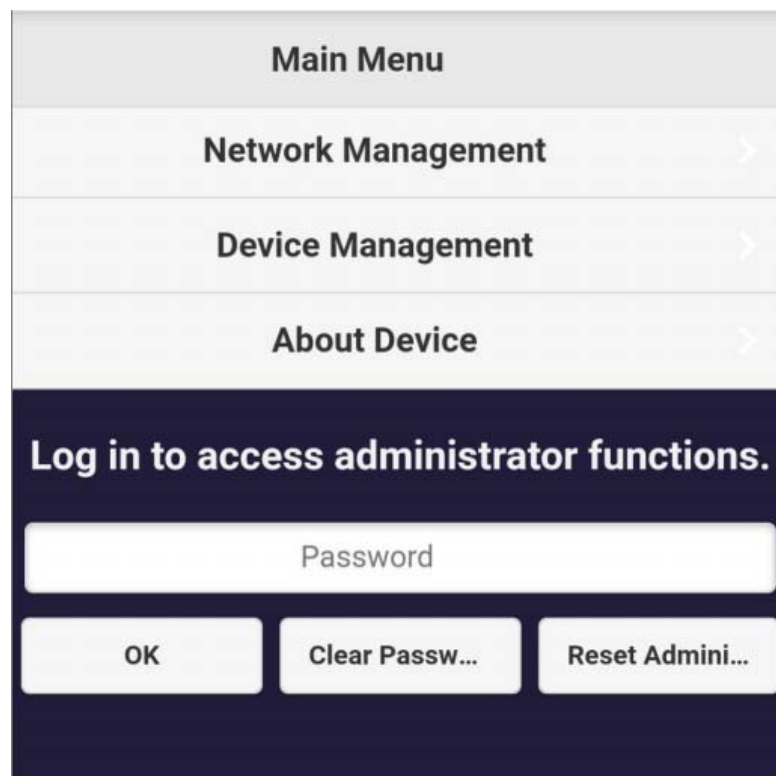
TWP-100R1K comes with two standard access levels: Administrator and Base User.

NOTE: Please login as administrator for higher level of access control.

Please follow the steps below to access the TWP-100R1K Web UI.

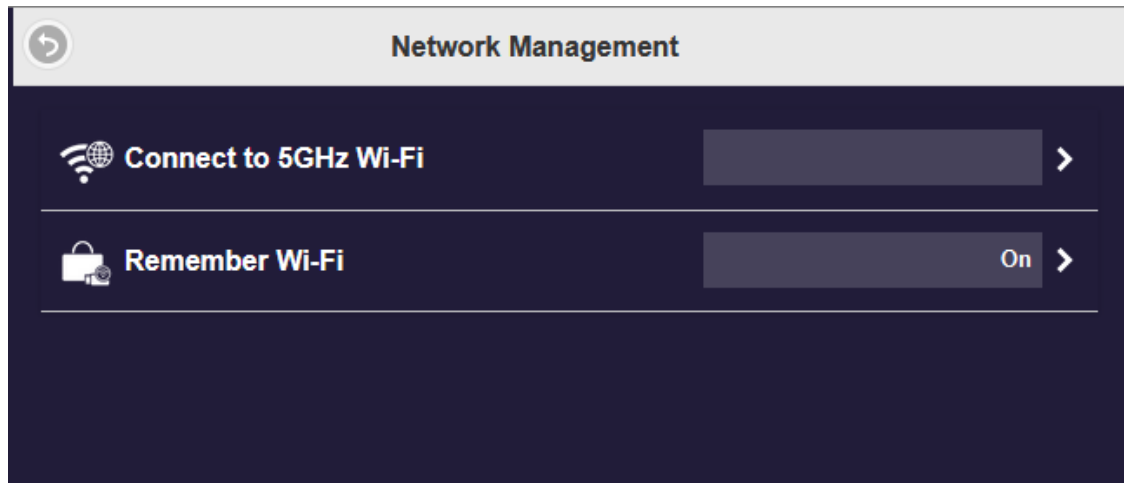
1. Connect the SSID “TRENDnet_HDMI” from your laptop network Wi-Fi and enter the password shown on the screen.
2. Turn on web browser and enter “192.168.168.1” in the address bar.

This page allows user to edit some basic settings such as Network Management, Device Management and check the WHDMI status in About Device.



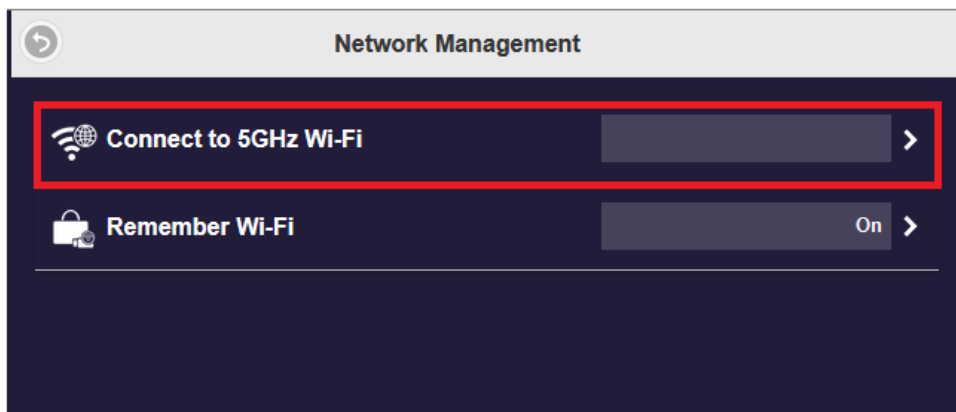
III-1. Network Management

Use the Network Management page to configure Wi-Fi settings for the TWP-101R and encryption.

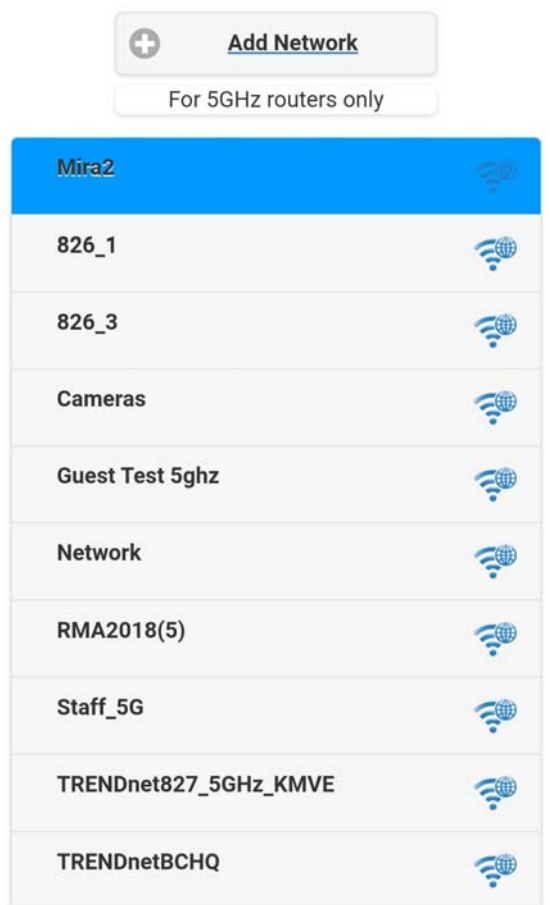


III-1-1. Connect to 5GHz Wi-Fi

In this page you can connect TWP-101R to the internet via external Wi-Fi from the list or manually add network.



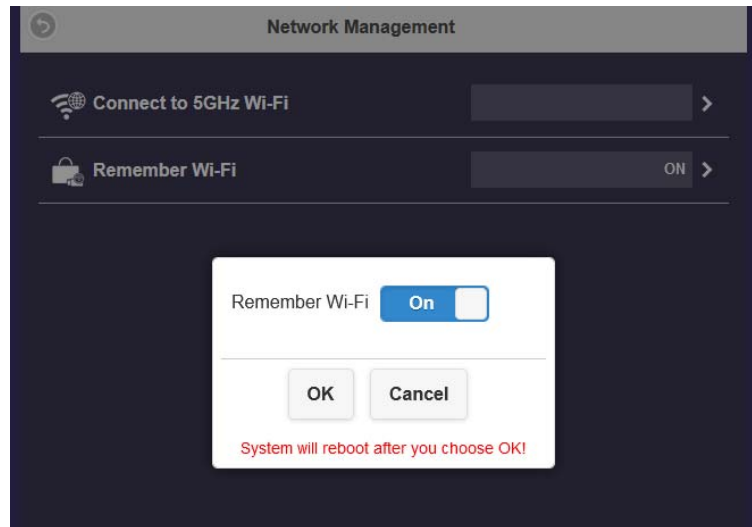
Connect TWP-101R to the available SSID from the list and enter the Wi-Fi password.



Alternatively, you can click the “Add Network” button to manually add network. In this page you can define the encryption type in WPA/WPA2, OPEN or 802.1x/EAP.

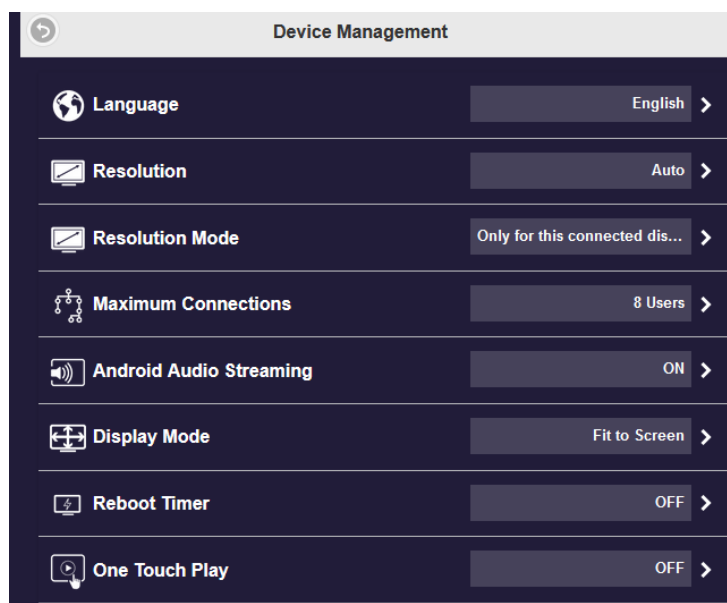
III-1-2. Remember Wi-Fi

In this page you can allow TWP-101R to remember the previous W-Fi settings



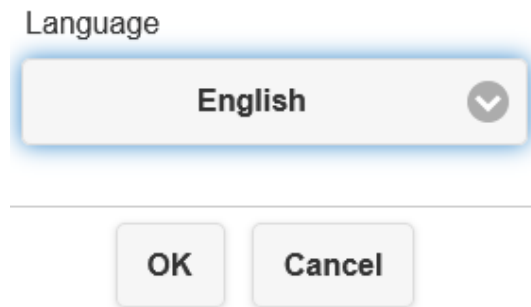
III-2. Device Management

This page allows user to configure Language, Resolution, Resolution Mode, Maximum Connections, Android Audio Streaming, Display Mode, Reboot Timer and One Touch Play settings.



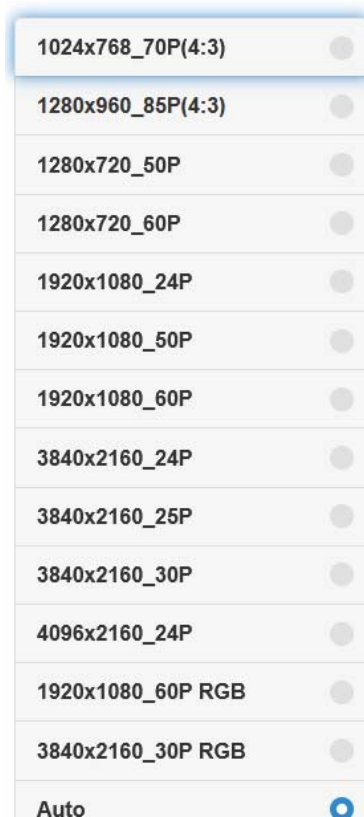
III-2-1. Language

Scroll down and choose your language from the list.



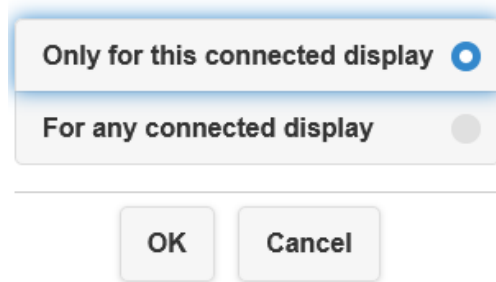
III-2-2. Resolution

Move the slider to the resolution you want, and then click Ok.



III-2-3. Resolution Mode

In this page there are two modes for resolution.



A dialog box with two radio button options. The first option, "Only for this connected display", is selected with a blue radio button. The second option, "For any connected display", has an unselected grey radio button. Below the options are two buttons: "OK" and "Cancel".

III-2-4. Maximum Connections

This page allows user to configure maximum connections limit for TWP-101R.

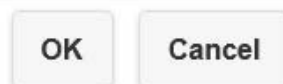
Please select the applicable maximum connections for your usage. It supports

up to 32 users and the defaults maximum connection is 8 users.



A dialog box with four radio button options. The first option is "4 Users" with an unselected grey radio button. The second option, "8 Users", is selected with a blue radio button. The third option is "16 Users" with an unselected grey radio button. The fourth option is "32 Users" with an unselected grey radio button.

Note: The greater number of connected users there are, the lower the bandwidth for each user.

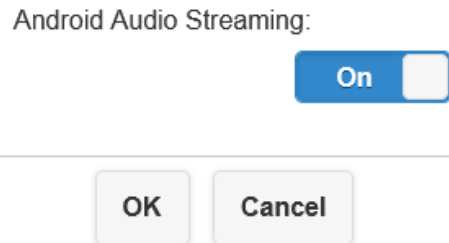


Two buttons: "OK" and "Cancel".

NOTE: Please be aware that when multiple users use a single device, more connections consume the finite bandwidth.

III-2-5. Android Audio Streaming

Enable the function to allow Android users to cast video and audio to the external display.



NOTE: Please be aware that the default setting of Android audio streaming is Off.

III-2-6. Display Mode

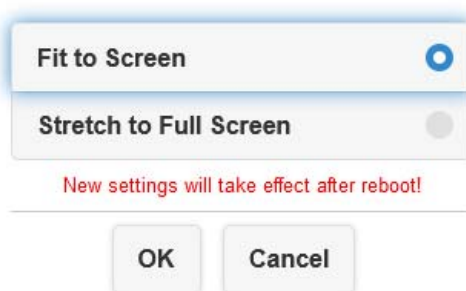
It supports below Display Modes.

Fit to screen:

Keep your original aspect ratio of the video.

Zoom to screen:

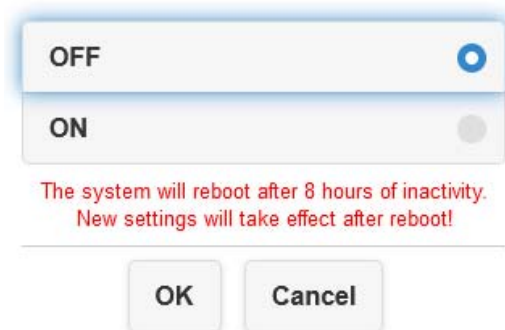
It would not keep the aspect ratio of the video.



III-2-7. Reboot Timer

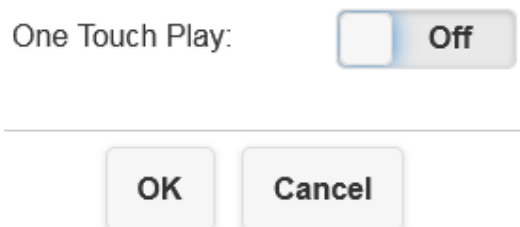
TWP-101R will automatically reboot every 8 hours under the following conditions:

- No TWP-101T is connected to TWP-101R.
- None of the device is connected to TWP-101R, including Windows, Android, MacOS, iOS.



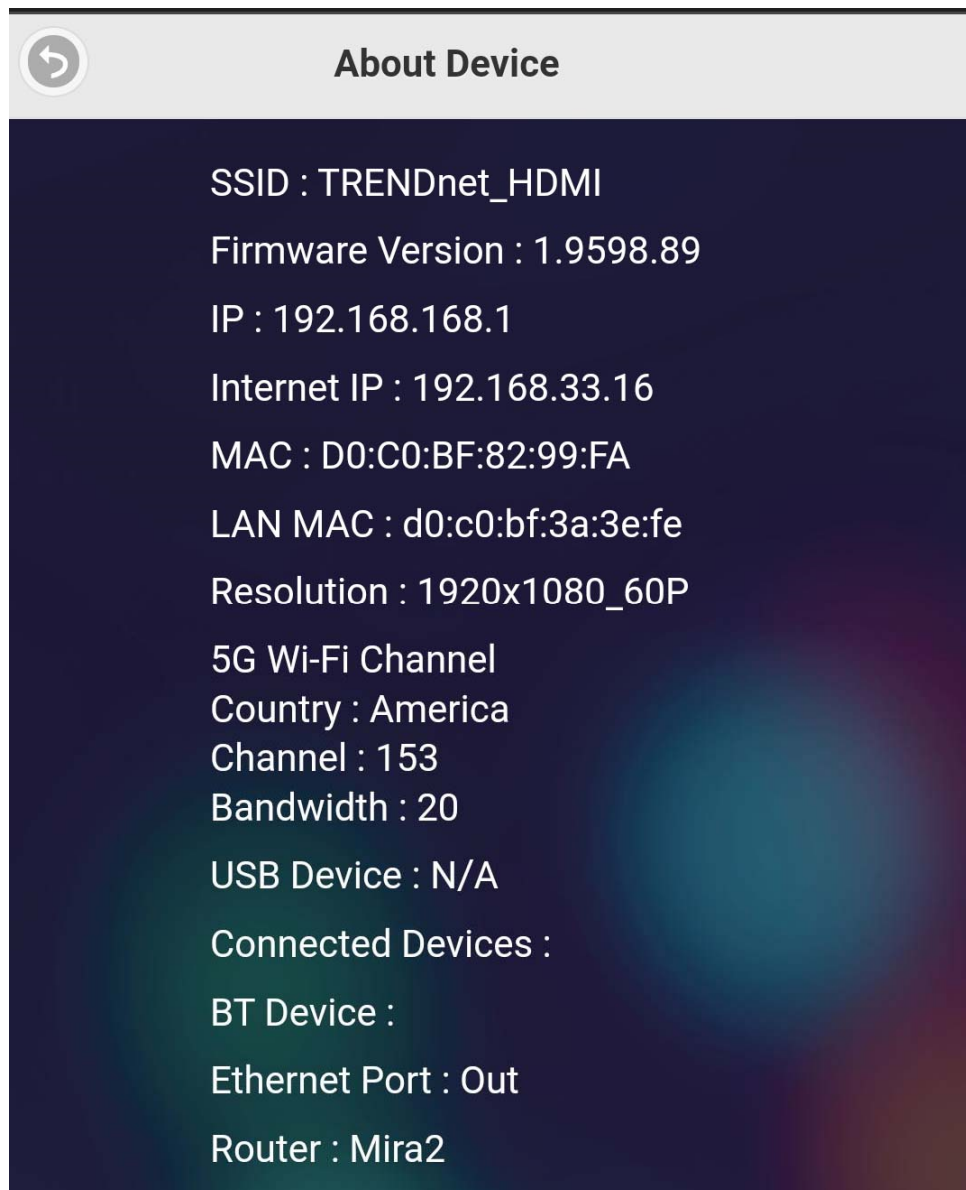
III-2-8. One Touch Play settings

Allows the device becomes an active resource when pressing the button.



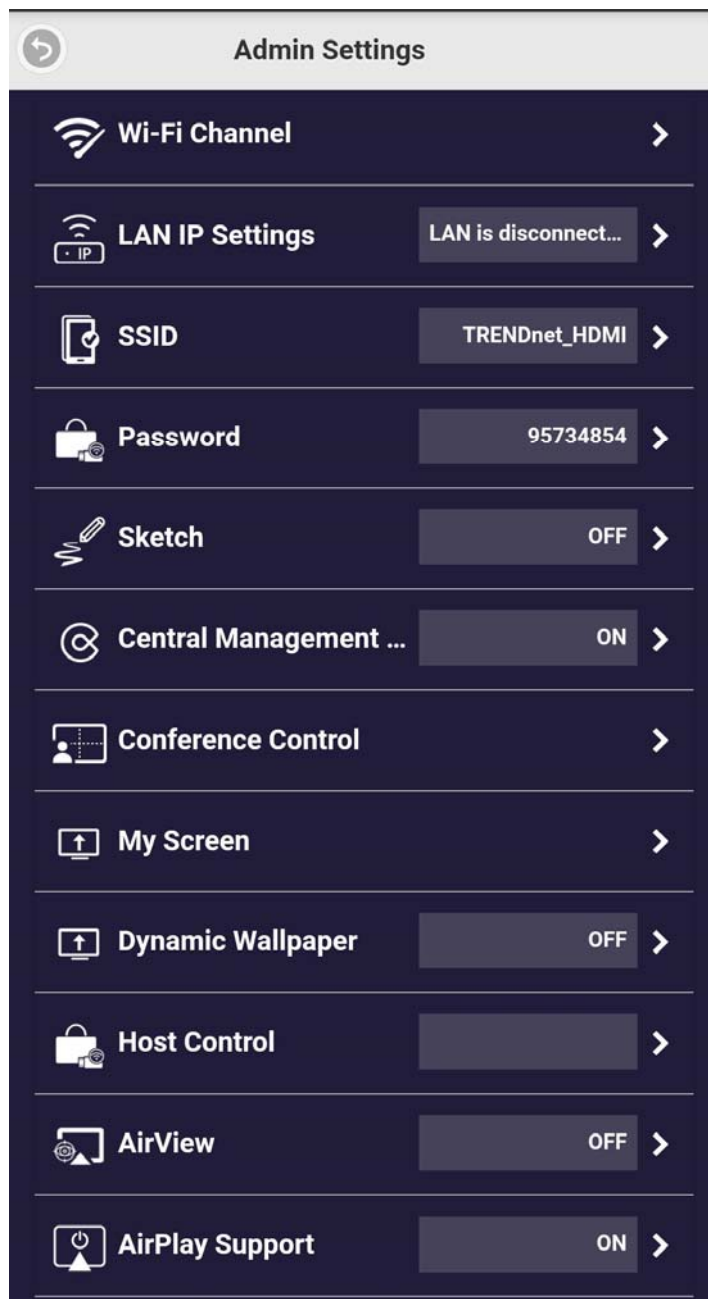
III-3. About Device

In “About Device” page provides you with information on:



IV. Web UI (Administrator)

The Admin Setting page allows users with higher access authorization to customize it's network settings and features.



IV-1. Wi-Fi Channel

In this page you can set up the receiver's Wi-Fi channel.

Wi-Fi Mode
5G

Country
Taiwan

Channel
Auto

Bandwidth
20MHz

OK Cancel

Item	Description
Country	Please select the correct country for 5GHz channel
Channel	Select a wireless channel from 36 – 165
Bandwidth	Select the bandwidth in 20MHz or 80MHz

NOTE: Please be aware that users cannot configure the Wi-Fi Channel while TWP-101R is connecting to the external internet.

IV-2. LAN IP Settings

The LAN IP Settings page is used to configure the settings for LAN network, including IP address, Default Gateway, Subnet mask, DNS.

Automatic On

IP Address

Default Gateway

Subnet Mask

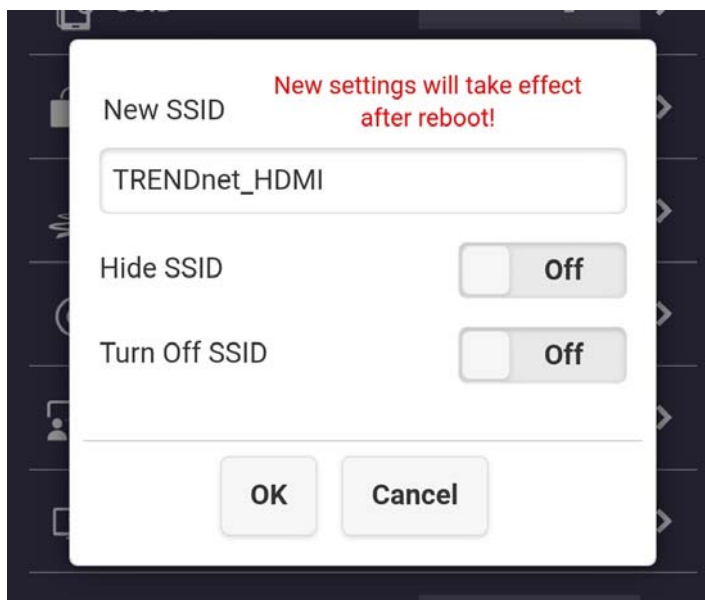
DNS1

DNS2

Changes take effect immediately after pressing OK

IV-3. SSID

The SSID page is used to customize the SSID, including renaming, Hide SSID or Turn Off SSID.



NOTE: After changing the new SSID, please reconnect TWP-100R1K by re-pairing the transmitter and the receiver.

IV-4. Password

You can change or hide the Wi-Fi connection password on the landing page.

Password

Hide Password OFF

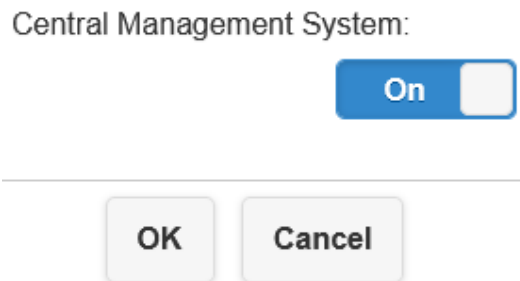
IV-5. Sketch

You can turn On/Off sketch in this page.

Sketch: Off

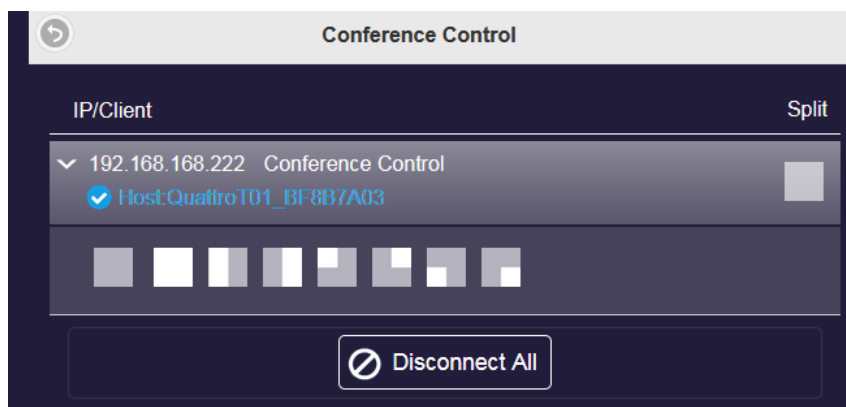
IV-6. Central Management System

You can turn On/Off Central Management System in this page.



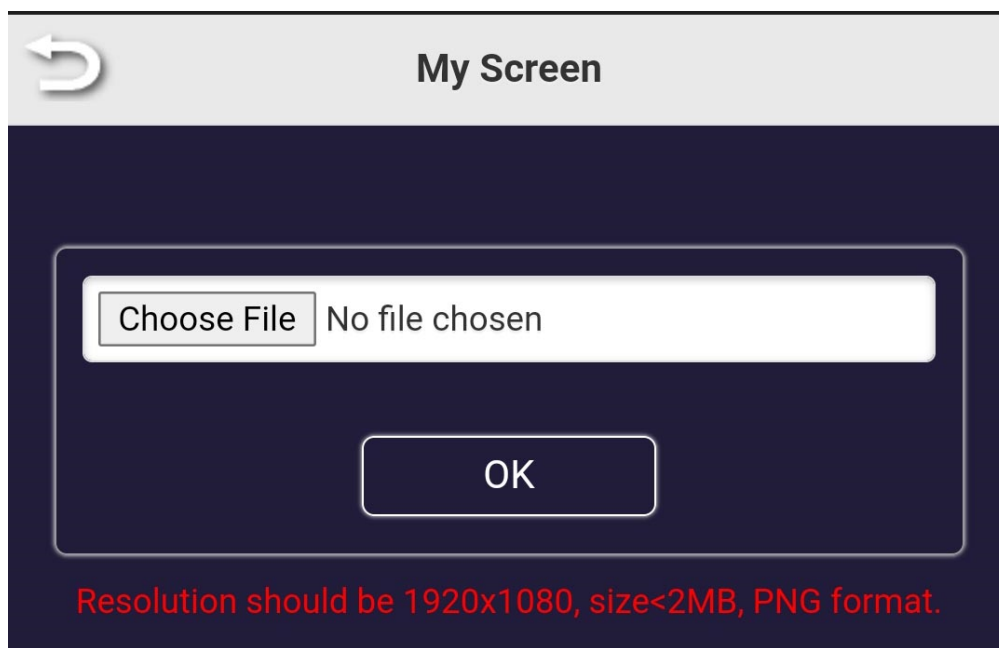
IV-7. Conference Control

This Conference Control page allows assign monitor split screen position that will appear on monitor's screen.



IV-8. My Screen

The My Screen page allows users to change the theme of the main page of RX by uploading images.



NOTE: Images (ONG format) size should be 1920 x 1080 resolution and 2MB in size.

IV-9. Wallpaper Switch

This page allows users to set wallpaper URL and check interval.

The screenshot shows a dialog box titled "Wallpaper Switch". At the top right, there is a toggle switch labeled "Off". Below it is a text input field for "Wallpaper URL". Underneath that is another text input field for "Wallpaper Check Interval" containing the number "2". A red error message is displayed below the second input field: "The picture from URL must be in PNG format.". At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

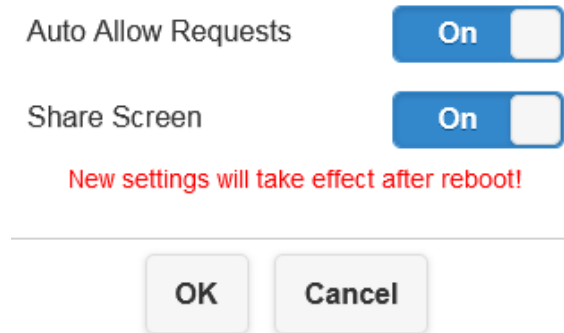
IV-10. Dynamic Wallpaper

The Dynamic Wallpaper allows you to use wallpapers as native Dynamic Desktops after monitor idle for a certain number of minutes. You can set the idle time when this mode enabled.

The screenshot shows a dialog box titled "Dynamic Wallpaper". At the top right, there is a toggle switch labeled "Off". Below it is another toggle switch labeled "Off" for "Silent Mode". There are two radio buttons: "URL" (selected) and "USB Disk". Below the radio buttons is a text input field for "URL". Underneath that is a text input field for "Starts After X Minutes of Idle" containing the number "1". At the bottom, there are two radio buttons: "Stops when any transmitter is connected" (selected) and "Stops when any transmitter starts to mirror". At the very bottom of the dialog, there are two buttons: "OK" and "Cancel".

IV-11. Host Control

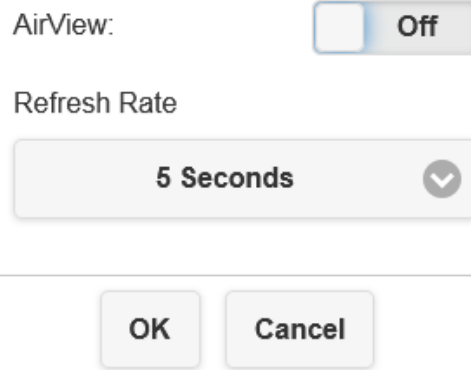
The host control allows the 1st user to become the Host of display, all other casting requests will be transferred to Host before casting. There are also some items to be set.



Item	Description
Auto Allow Requests	The new request will be cast on screen directly.
Share screen	The new request will be mirrored in screen split when this function is on. The new casting will in full-screen size when this function is off.

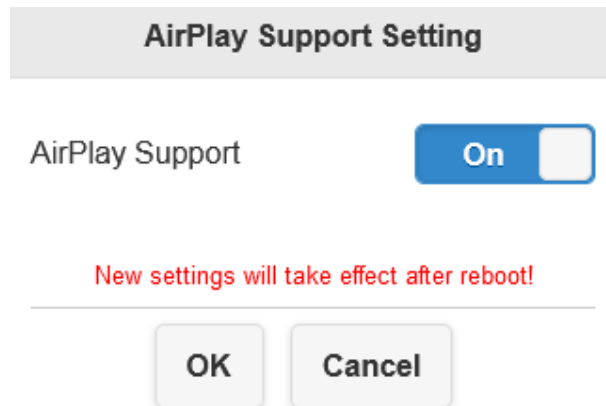
IV-12. Airview

The Airview page allows users to enable/disable Airview function. And you can set the number of times the monitor updates with new images each second in Refresh Rate.



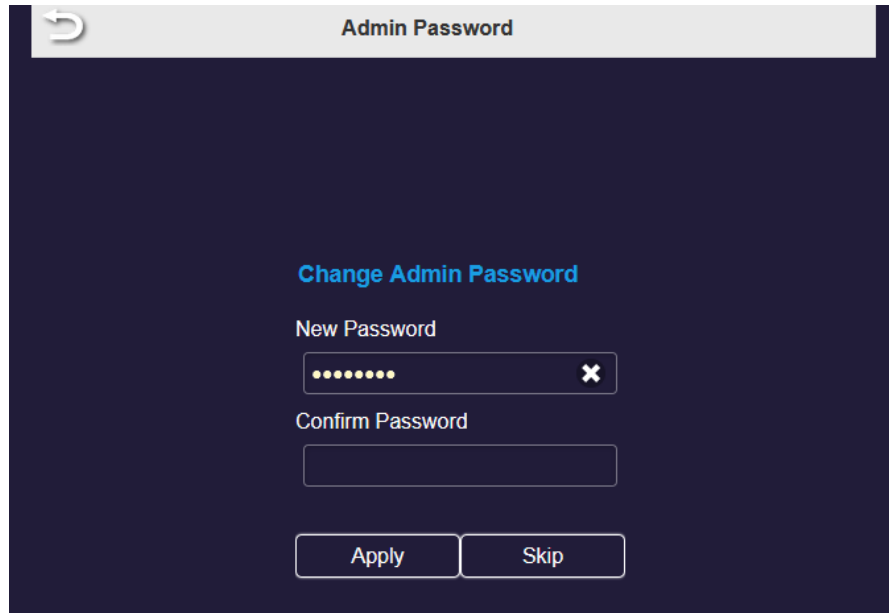
IV-13. Airplay Support

The Airplay function allows iOS /Mac users to cast without TX.



IV-14. Admin Password

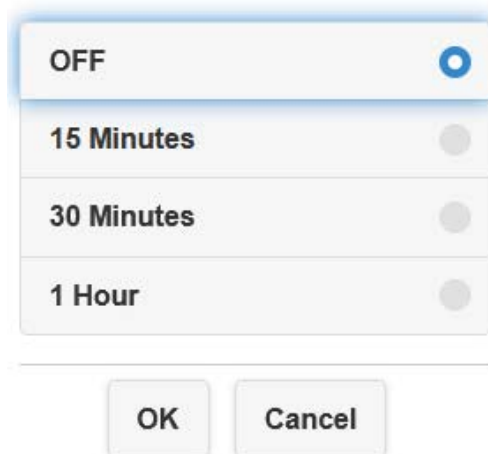
The Admin Password page allows the users to change the password for better security.



The screenshot shows a window titled "Admin Password" with a back arrow icon in the top-left corner. The main heading is "Change Admin Password" in blue. Below it, there are two input fields: "New Password" and "Confirm Password". The "New Password" field contains seven dots and a clear 'X' button. The "Confirm Password" field is empty. At the bottom, there are two buttons: "Apply" and "Skip".

IV-15. Screen Saver

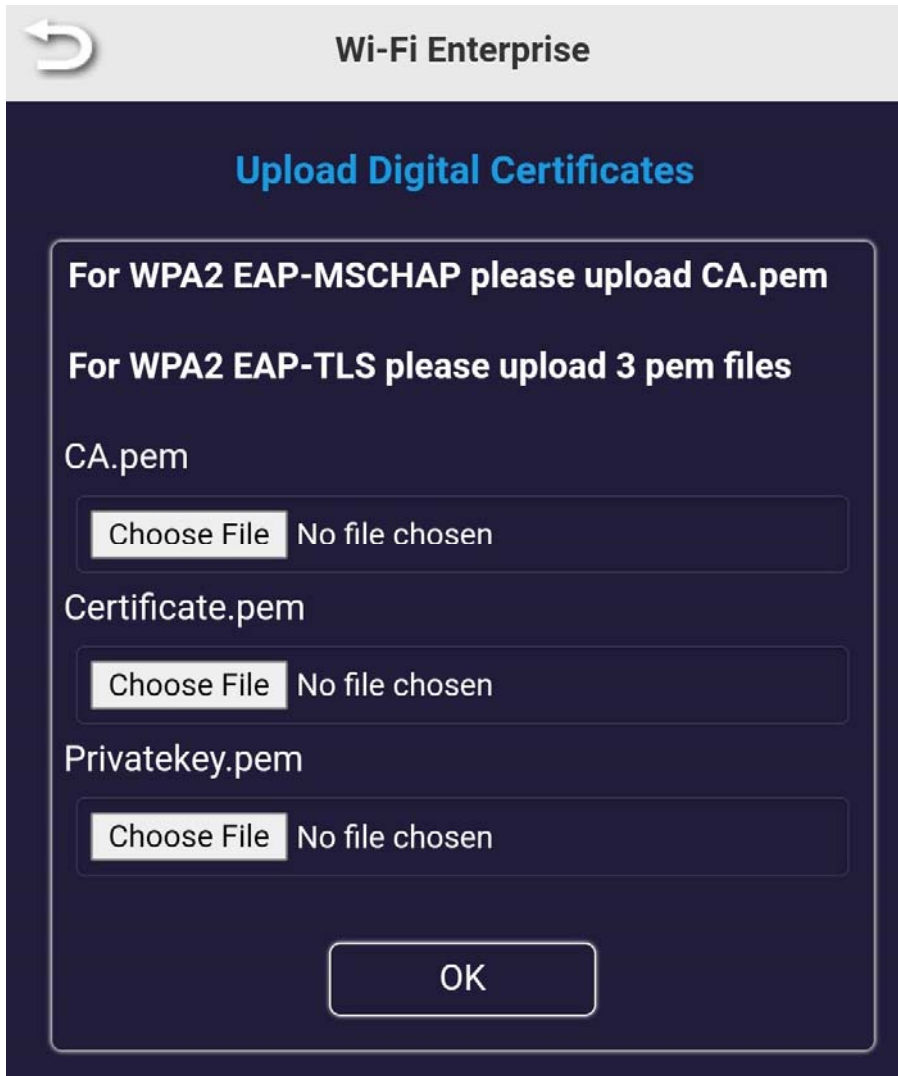
The Screen Saver page allows users to set the idle time and can be set to blank the screen after a period of user inactivity.



The screenshot shows a dialog box for screen saver settings. It has a list of options: "OFF", "15 Minutes", "30 Minutes", and "1 Hour". Each option has a radio button to its right. The "OFF" option is selected, indicated by a blue circle. Below the list are two buttons: "OK" and "Cancel".

IV-16. Wi-Fi Enterprise

The Wi-Fi Enterprise page allows admin to upload Digital certificates.



The screenshot shows a dialog box titled "Wi-Fi Enterprise" with a back arrow icon. The main heading is "Upload Digital Certificates". Below this, there are instructions: "For WPA2 EAP-MSCHAP please upload CA.pem" and "For WPA2 EAP-TLS please upload 3 pem files". There are three file upload fields: "CA.pem", "Certificate.pem", and "Privatekey.pem". Each field has a "Choose File" button and the text "No file chosen". At the bottom of the dialog is an "OK" button.

Wi-Fi Enterprise

Upload Digital Certificates

For WPA2 EAP-MSCHAP please upload CA.pem

For WPA2 EAP-TLS please upload 3 pem files

CA.pem

Choose File No file chosen

Certificate.pem

Choose File No file chosen

Privatekey.pem

Choose File No file chosen

OK

IV-17. Fixed Host

The Fixed Host page allows users to set a specific device as fixed host.

NOTE: Please reboot your TWP-100R1K before new settings will take effect.

New settings will take effect after reboot!

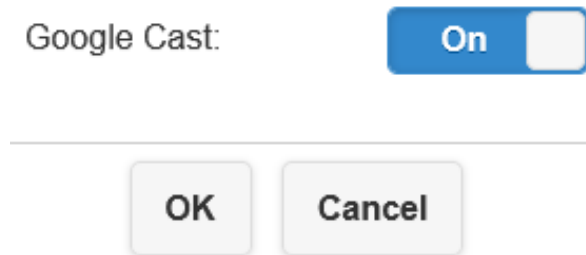
Dynamic	<input checked="" type="radio"/>
Fixed IP	<input type="radio"/>
Fixed Device	<input type="radio"/>

OK Cancel

Item	Description
Dynamic	The first connected device will be set as the host.
Fixed IP	Assigning a specific IP address as the fixed host.
Fixed device	Assigning a certain device as the fixed host.

IV-18. Google Cast

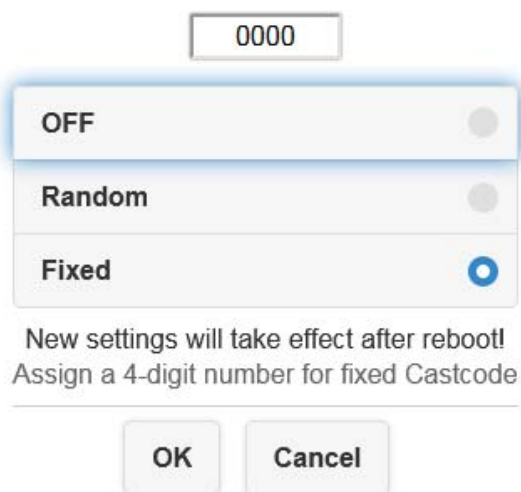
The Google Cast page allows users to direct casting via Chromecast for Android, MacOS users.



NOTE: Please be aware that when casting via Chromecast, the TWP-100R1K must connect to the internet.

IV-19. Castcode Control

The Castcode Control page allows users to set castcode to prevent unauthorized casting.



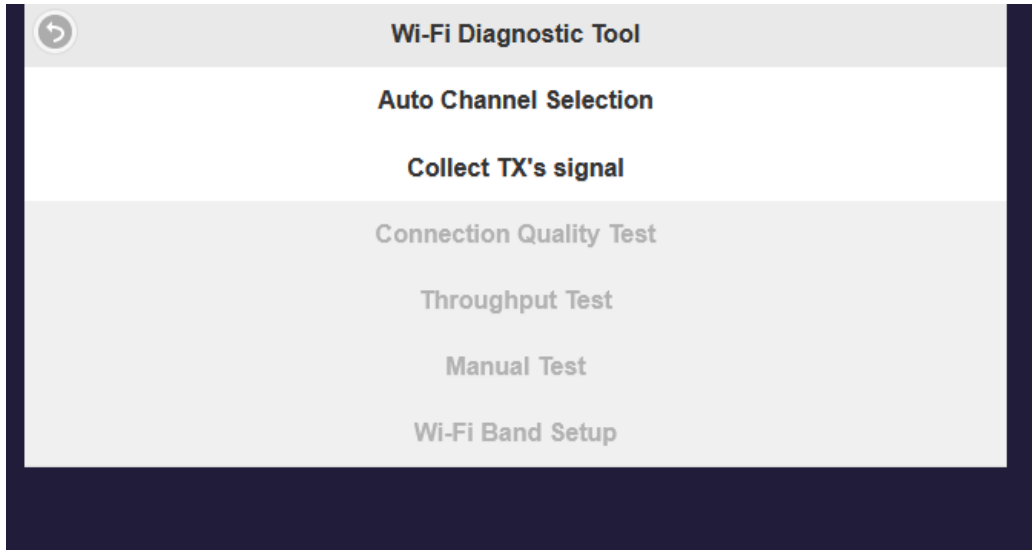
IV-20. Upgrade

The Upgrade page allows users to update TWP-100R1K firmware.

NOTE: TWP-101R must be connected to the internet.

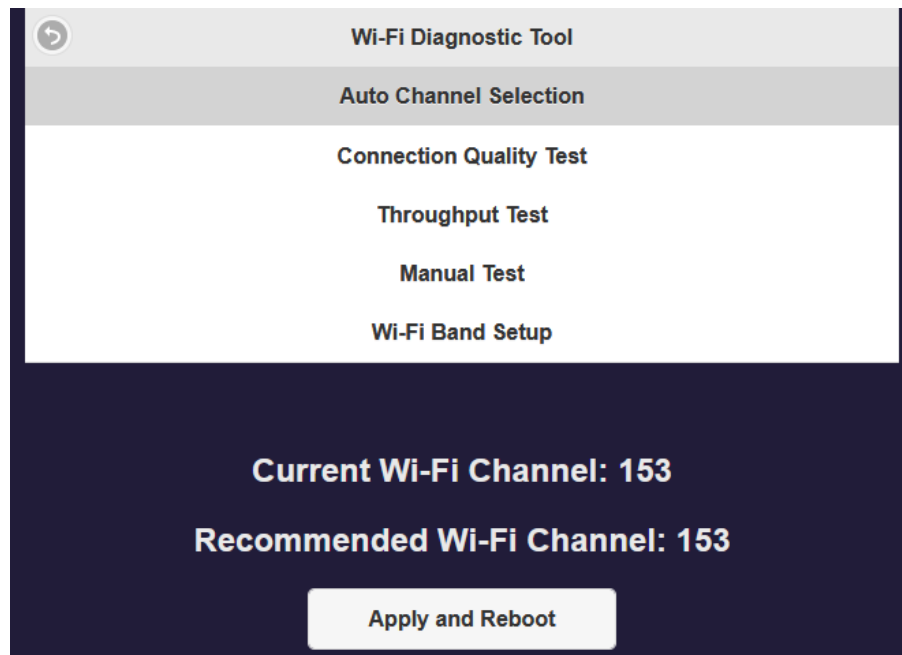
IV-21. Wi-Fi Diagnostic Tool

The Wi-Fi Diagnostic Tool allows users to easily test TX wireless networks and its corresponding information. Please tap the “Collect TX’s signal” button to establish the connection.



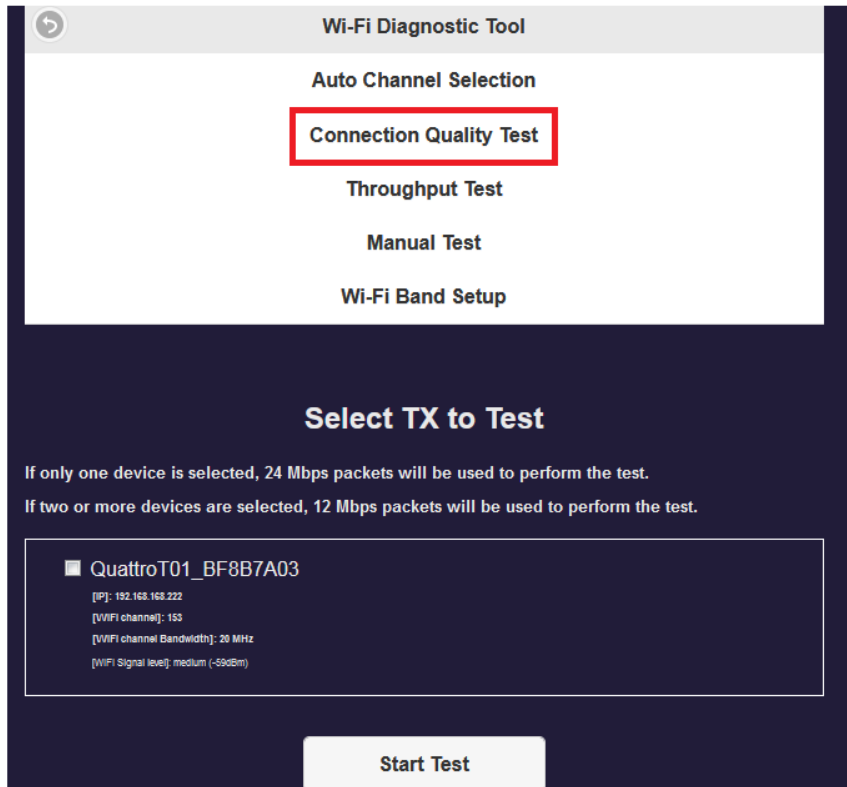
Auto Channel Selection:

The Auto Channel Selection scans all available channels and connects to the channel with the best signal. Tap the “Apply and Reboot” button to start scanning the channels.



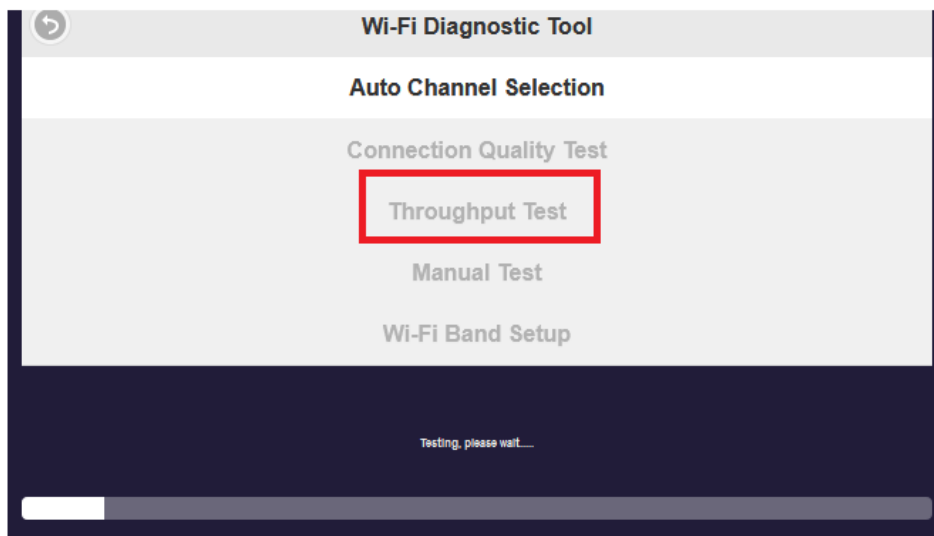
Connection Quality Test:

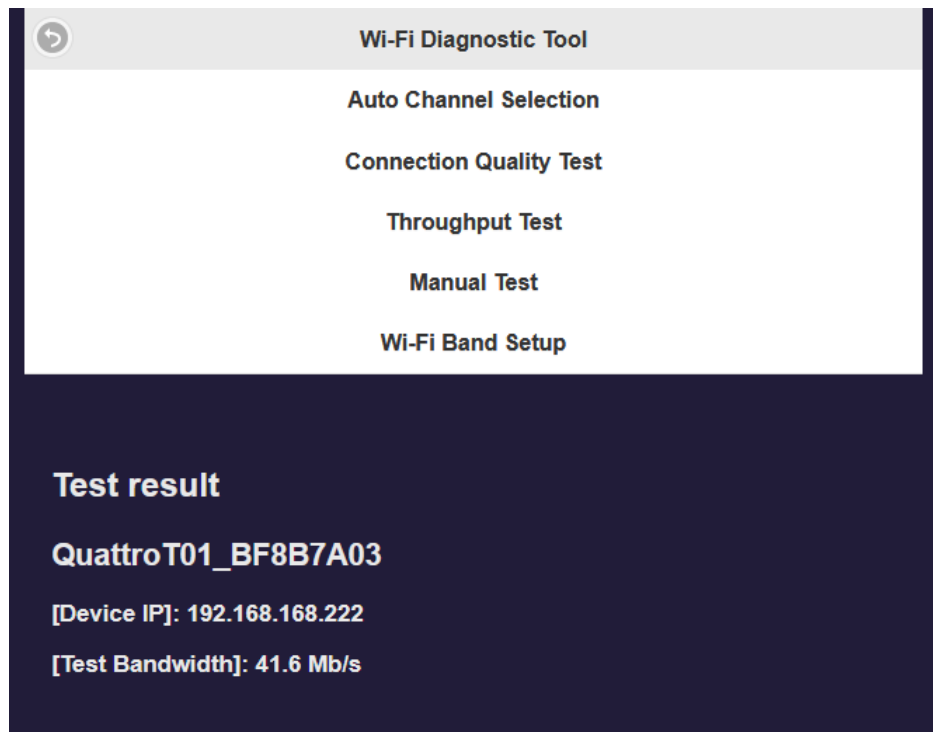
In this page you can test the TX network connection by tapping the “Stat Test” button.



Throughput Test:

The Throughput Test page allows users to use the tool to analyze TWP-100R1K networks throughput performance.





Manual Test:

The Manual Test page allow users to manually adjust the bandwidth to check the throughput of your TWP-100R1K. Tap the “Start Manual Test” button to start the testing.

Wi-Fi Diagnostic Tool

Auto Channel Selection

Connection Quality Test


Throughput Test

Manual Test

Wi-Fi Band Setup

Select TX to Test:

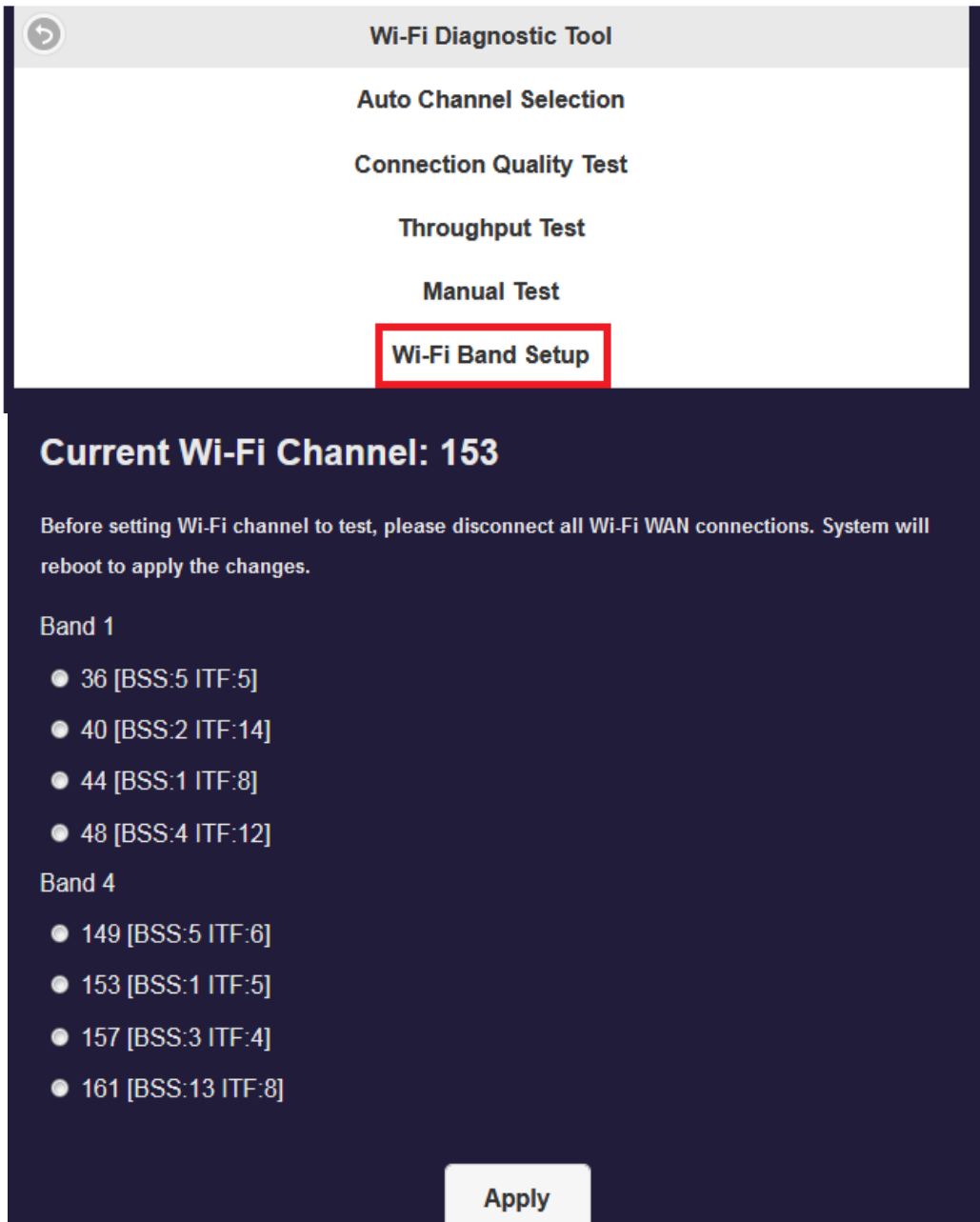
■ QuattroT01_BF8B7A03
[IP]: 192.168.168.222
[WiFi channel]: 153
[WiFi channel Bandwidth]: 20 MHz
[WiFi Signal level]: medium (-59dBm)

Bandwidth: **3**  (Mb/s)

Start Manual Test

Wi-Fi Band Setup:

The Wi-Fi Band Setup page allows users to set the Wi-Fi channel before testing. Tap the Apply button to save the changes.



IV-22. Pairing Settings

The Pairing Settings page allows users to set up the download path of the pairing file.

- Directly from RX
- Through the router.

The screenshot shows a dialog box with two main sections. The top section is titled 'Pair Devices Directly' and contains a 'Download' button. The bottom section is titled 'Pair Devices Through Router' and contains an 'Edit' button. To the right of each section is a radio button. The 'Pair Devices Directly' radio button is selected (indicated by a blue dot), and the 'Download' button is highlighted with a blue border. Below the dialog box are three buttons: 'OK', 'Apply', and 'Cancel'.

IV-23. Multicast

You can broadcast to multiple RX by turning on the Multicast function in this page.

The screenshot shows the Multicast settings page. At the top, there is a 'Multicast' label and a toggle switch set to 'Off'. Below this is a 'Cast Group' label and a text input field. A red warning message is displayed below the input field: "Please switch to 'Pair Through Router' mode in pairing settings to enable multicast. The transmitter supports broadcast to multiple receivers only if the receivers are set with the same Cast Group name. New settings will take effect after reboot!". At the bottom of the page are two buttons: 'OK' and 'Cancel'.

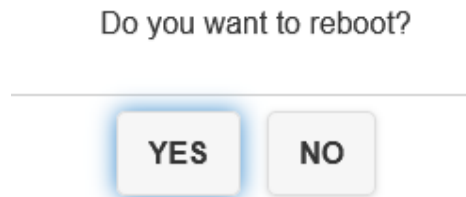
IV-24. Download Pairing File

The Download Pairing File page allows users to download the pairing file from the RX. You can save the pairing file in USB disk and plug into the TX for pairing.



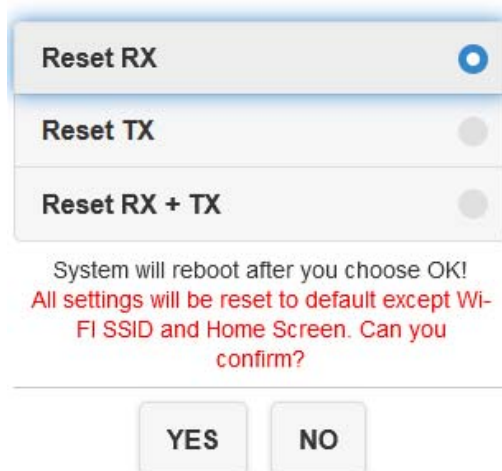
IV-25. Reboot

The Reboot page allows users to remotely reboot the RX.



IV-26. Reset to Factory Default

The Reset to Factory Default page allows users to remotely reset RX, TX or RX+TX to factory default settings.



V. Connecting the TWP-100R1K via Smart phone App

You can connect the TWP-100R1K via App in Android and iOS.

IV-1. Android OS

Please follow the steps below to connect your TWP-100R1K with Android phone.

1. Download and install “Google Home” App from Play Store.



2. Connect your RX to the Internet with an Ethernet cable.
3. Connect the SSID “TRENDnet_HDMI” from your Android phone and enter the password shown on the main screen.
4. Tap on the name of the device list you wish to mirror your Android device's display to.



IV-2. iOS

Please follow the steps below to connect your TWP-100R1K with iOS phone.

1. Connect the SSID “TRENDnet_HDMI” from your iOS phone and enter the password shown on the screen.
2. Swipe down from the upper-right corner to reveal the Control Center.
3. Tap the “Screen Mirroring” button.




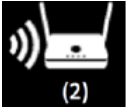


VI. Applications & Operation

Please follow the steps below to mirror your screen to the monitor.

1. Follow the instructions on “Hardware Installation” Chapter to set up the TWP-100R1K projector system.
2. Connect the SSID “TRENDnet_HDMI” from your laptop network Wi-Fi and enter the password shown on the screen.
3. You will see the image that displays on your monitor as below.



NOTE: To disconnect the connection from the host, please click the main button on TX again.

Icon/Item	Description
	This icon shows the Airplay status (activated or deactivated)
	This icon shows the RX paring and connection status. The number (2) shows the total number of TX that are connected to the RX.
	This icon shows the Wi-Fi signal status (connected or disconnected)
	This icon shows the RJ45 port connection status (connected or disconnected)
Direct Link IP	RX's IP address.

4. Press the main button on TX to establish a connection with your laptop.

Regulations

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

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

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.



IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

RoHS

This product is RoHS compliant.



Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

TWP-100R1K – 3 Years Warranty

If a product does not operate as warranted during the applicable warranty period, TRENDnet shall reserve the right, at its expense, to repair or replace the defective product or part and deliver an equivalent product or part to the customer. The repair/replacement unit's warranty continues from the original date of purchase. All products that are replaced become the property of TRENDnet. Replacement products may be new or reconditioned. TRENDnet does not issue refunds or credit. Please contact the point-of purchase for their return policies.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet within the applicable warranty period and providing a copy of the dated proof of the purchase. Upon proper submission of required documentation a Return Material Authorization (RMA) number will be issued. An RMA number is required in order to initiate warranty service support for all TRENDnet products. Products that are sent to TRENDnet for RMA service must have the RMA number marked on the outside of return packages and sent to TRENDnet prepaid, insured and packaged appropriately for safe shipment. Customers shipping from outside of the USA and Canada are responsible for return shipping fees. Customers shipping from outside of the USA are responsible for custom charges, including but not limited to, duty, tax, and other fees.

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