



WIRELESS TV STREAMING BOX



Manual DN-70310

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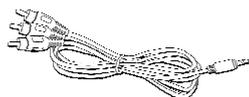
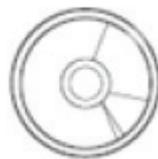
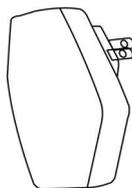
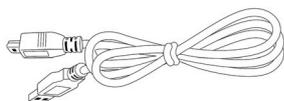
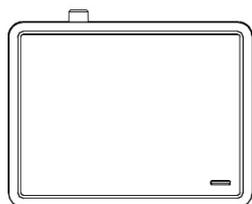
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CHAPTER 1: PRODUCT INTRODUCTION

Thank you for choosing DIGITUS Wireless HDMI Receiver Box DN-70310. Please follow the manual for its use.

1-1 Package Contents

- (1) DN-70310
- (2) AC Adapter USB
- (3) Micro USB Cable (B to A)
- (4) CD-ROM
- (5) Quick Installation Guide
- (6) CVBS cable



1-2 Hardware Recommendation

(1) PC2TV

DN-70310 is designed to be able to stream screen capture from PC (Windows 7 /Window 8/ Win 8.1) & Mac (over 10.6) to your HDTV.

PC or Notebook

- CPU: Core 2 Duo 2.0 GHz or better
- Memory: 2.0 GB or better
- Network: 802.11g/n Wi-Fi and/or 100/1000 Mbps Ethernet

(2) Media Streaming

Stream photo/music/video from your PC, smart phone or laptop or play back video/Music/photo from USB up to 1080p HD.

PC or Notebook

- CPU: 1.6 GHz or better
- Memory: 1.0 GB or better
- Network: 802.11g/n Wi-Fi and/or 100/1000 Mbps Ethernet

Smart phone

- CPU: 800 MHz or better
- Memory: 256 MB or better
- Network: 802.11g/n Wi-Fi or better

Tablet-PC

- CPU: 600 MHz or better
- Memory: 256 MB or better
- Network: 802.11g/n Wi-Fi or better

Recommend software

- PC: Windows Media Player, AirFun
- Android OS: AirFun
- iOS: AirFun 、iMediashare

(3) Screen Mirroring for Android

Screen mirroring from Miracast-ready smart phone/tablet/NB up to 1080p HD through Miracast technology.

(4) i-Play

Stream video/photo contents from iPhone or iPad to your TV by Airplay feature.

1-3 Highlights

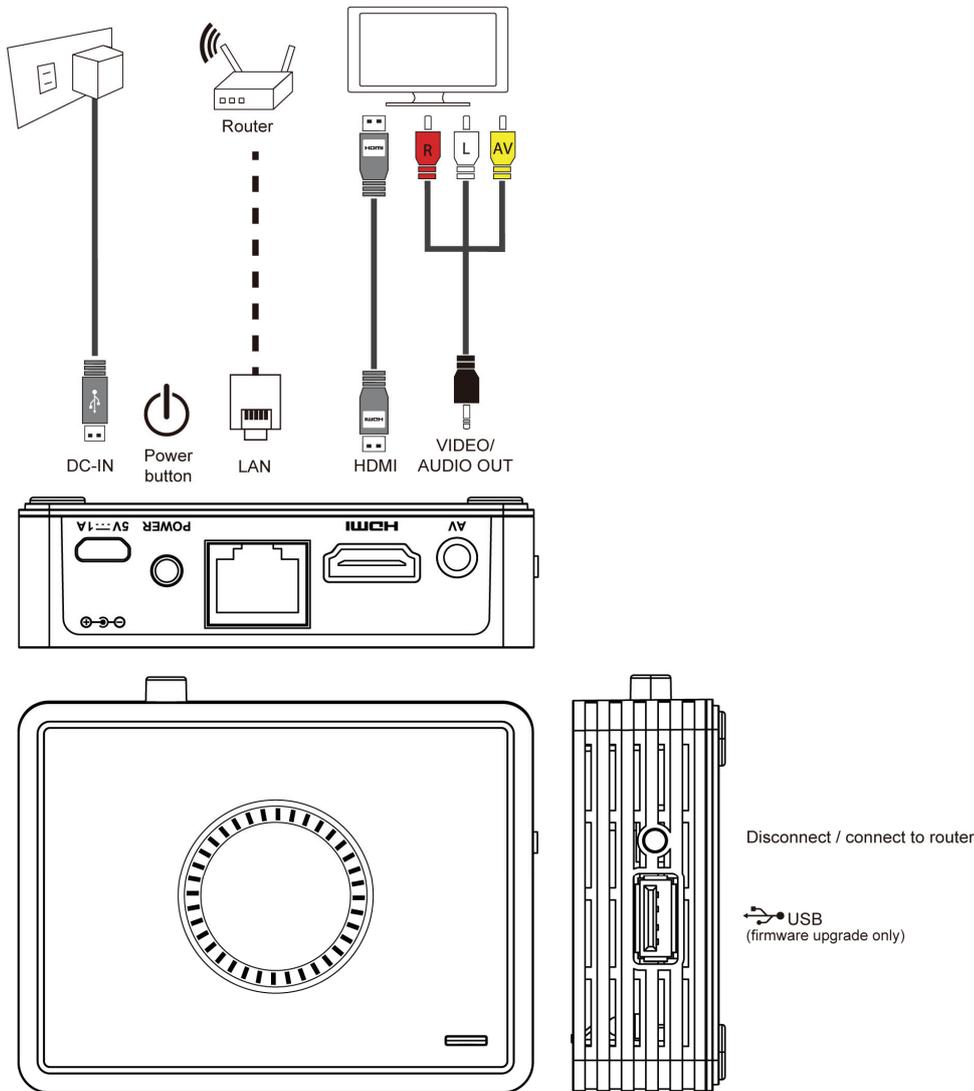
DN-70310 enables you to mirror whatever is displayed on Windows PC/laptop, Mac, smart phone & tablet on your HDTV, wirelessly, up to 1080p video resolution without the hassle of using HDMI cable.

Major features:

- 802.11 a/b/g/n Wireless compatibility
- 802.11n 2.4GHz & 5GHz dual band standards
- Supports both Wireless and Ethernet connectivity
- HDMI connection
- Wireless multimedia streaming up to Full HD 1080p
- PC contents, movies, photos and more all on your big screen
- Compatible with Windows, Apple and Android devices
- Network security

1-4 Hardware Setup/Installation

(1) Connect your device



(2) Connect power and push power button to turn on DN-70310.

After few seconds, when you see the below screen: the device is assigned an IP address, the system is in standby mode and ready to do file streaming or screen mirroring from your device.



(3) If your device is already connected to the router, press the switch button to disconnect with router, press again to connect.

** Please find Chapter 3 about router application

CHAPTER 2: DESCRIPTION OF FUNCTIONS

DN-70310 is a highly integrated all-in-one receiver, featuring instant and direct peer-to-peer connection with no need to press switch button between different functions.



Mirroring: Screen mirroring from Android smart phones, or tablet PCs through Wireless Mirroring technology.



ScreenShare: Mirror your screen from PCs or notebooks for meeting room application after installing ScreenShare software on the PCs or notebooks (supporting Windows and Mac OS)



Airfun: Stream photo/music/video from your PC, smart phone or laptop using Airfun APPs.

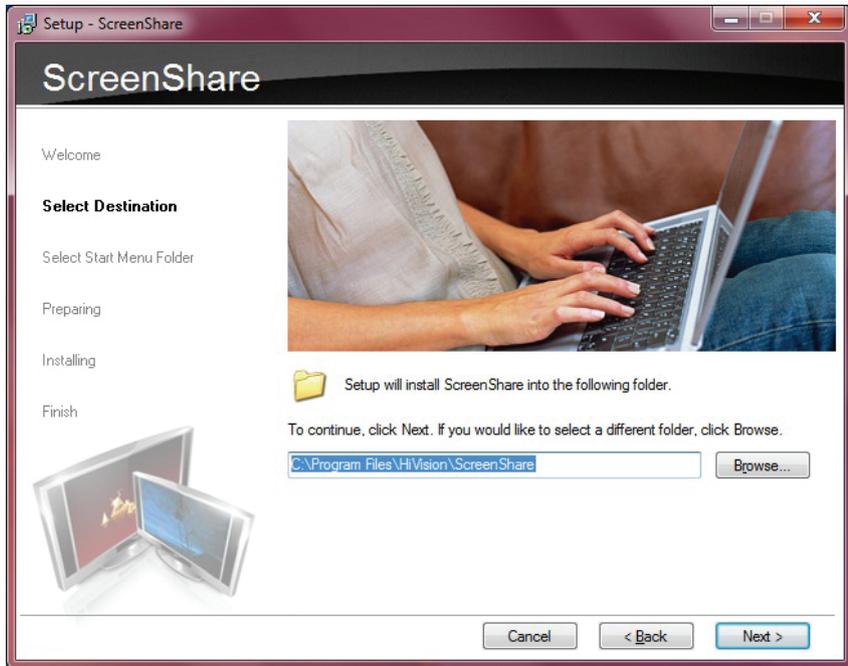


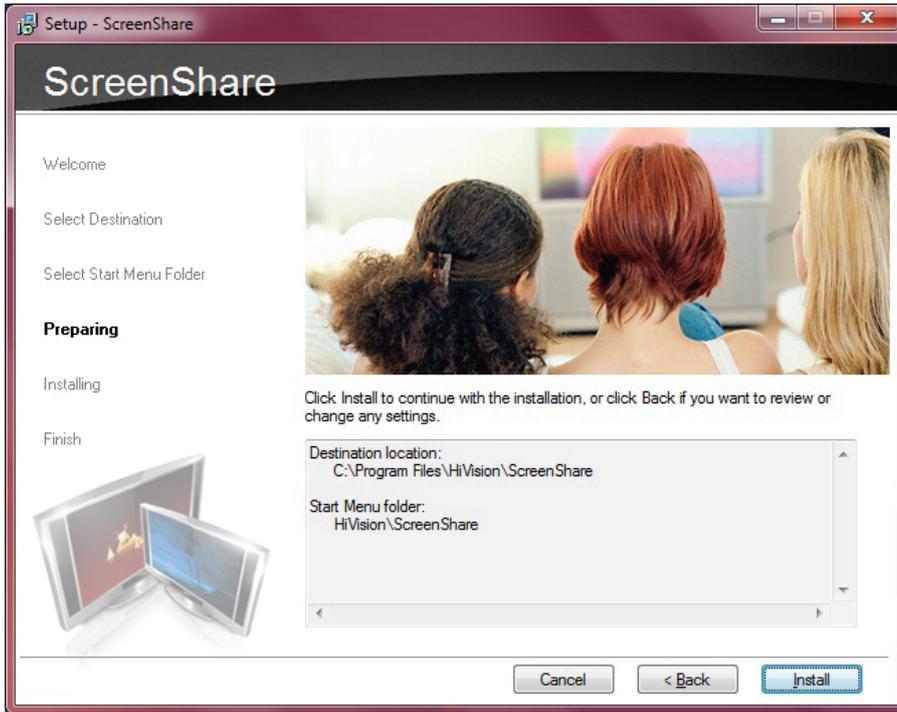
i-Play: Stream photo/video from your iPhone or iPad.

2-1 Using DN-70310 on ScreenShare for PC to TV

2-1-1 Basic Usage of application software for windows

Please install ScreenShare application from the CD.





2-1-1-1 Launching ScreenShare

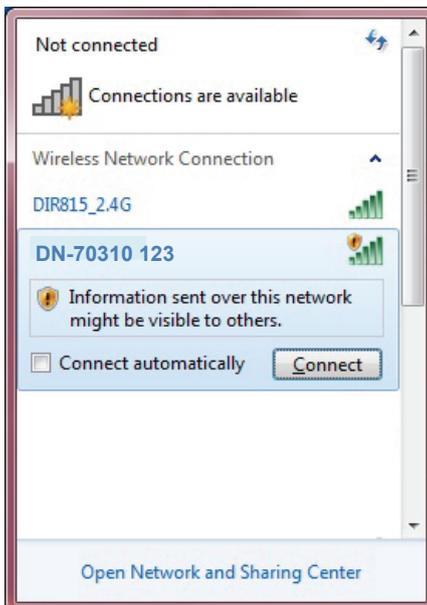
Please follow the steps below to run ScreenShare for Windows OS after DN-70310 is booted up with the following screen displayed on HDMI TV or monitor.

The screenshot displays the ScreenShare application interface with four main connection options:

- Android Device (Mirroring):**
 - Step 1: Connect to device
 - Step 2: Mirror screen
- PC/NB (ScreenShare):**
 - Step 1: Connect to device
 - Step 2: Run ScreenShare
 - Step 3: Press Play to mirror screen
- Phone/Tablet (Airfun):**
 - Step 1: Connect to device
 - Step 2: Run Airfun
 - Step 3: Select file to do streaming
- iPhone/iPAD (i-Play):**
 - Step 1: Connect to device
 - Step 2: Open Photo/Video/Music
 - Step 3: Press [Play button]

At the bottom center, there is a diagram showing a smartphone connected to a monitor via a wireless signal. Below it, the text "Ready for Connection" is displayed in green. At the bottom right, the version number "Ver: 2.3.4" is shown. At the bottom left, network information is displayed: "SSID : DN-70310 123", "Login Code : 9671", "Pin Code: 26659954", and "IP : 192.168.59.254".

(1) Search and find the device's SSID (DN-70310) in Wireless list on your notebook via WiFi.



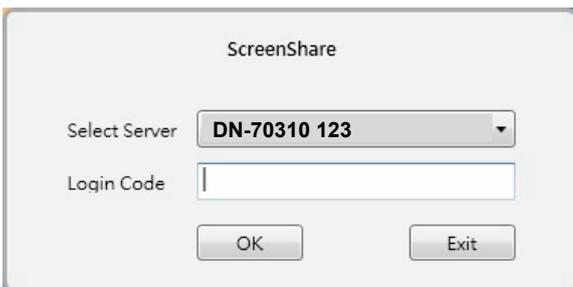
(2) Connect to this device SSID.



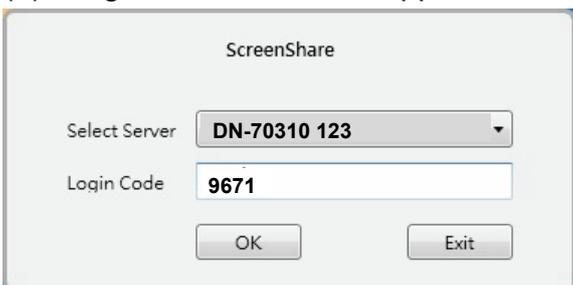
(3) Double click the ScreenShare icon from your desktop.



(4) ScreenShare will auto detect 'Server IP', please input login code as shown on instruction page.



(5) If login code is correct, application software will appear.





2-1-1-2 User Interface of ScreenShare

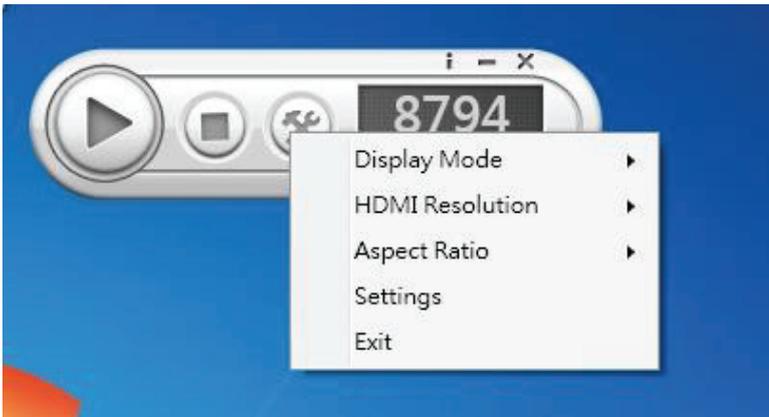
Main functions



No	Name	Function Description
1	Play	Start / pause presentation. When pausing a progressing presentation, the displaying image will freeze.
2	Stop	Stop a progressing presentation and go back to instruction page.
3	Menu	Access menu list.
4	Login code	Show the application login code.
5	Volume	Control the sidebar to change the volume. Press the icon to mute.
6	Information/Minimize/Close	Minimize and close the Application Software window. Information can show the application information.

Menu

You can also click 'Menu' button to access menu list.



(1) Display Mode

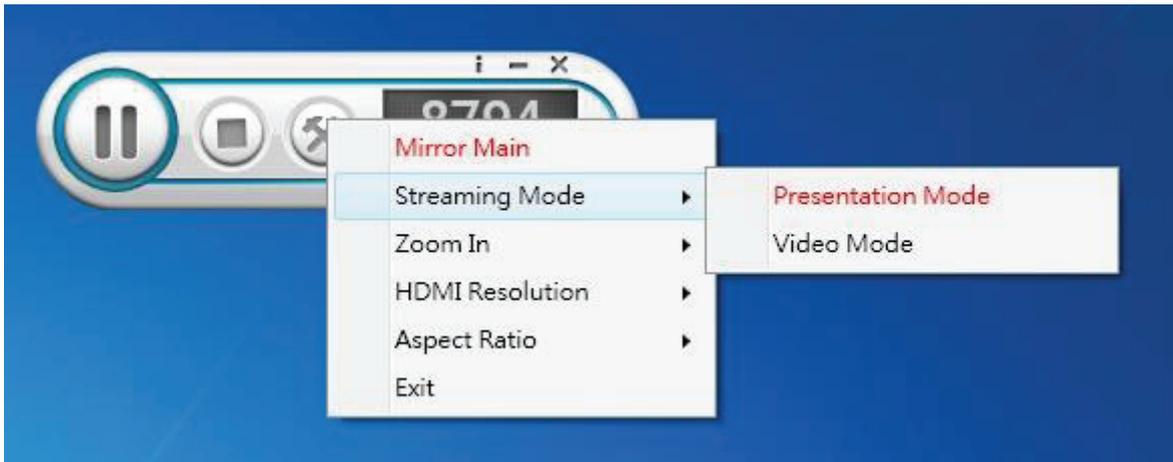


No	Name	Function Description
1	Main Display	Mirror NB/PC display to the Rx monitor.
2	Extend Display	Mirror your extend display to the Rx monitor.

(2) Zoom In (This function only can be used when “Main Display” running)

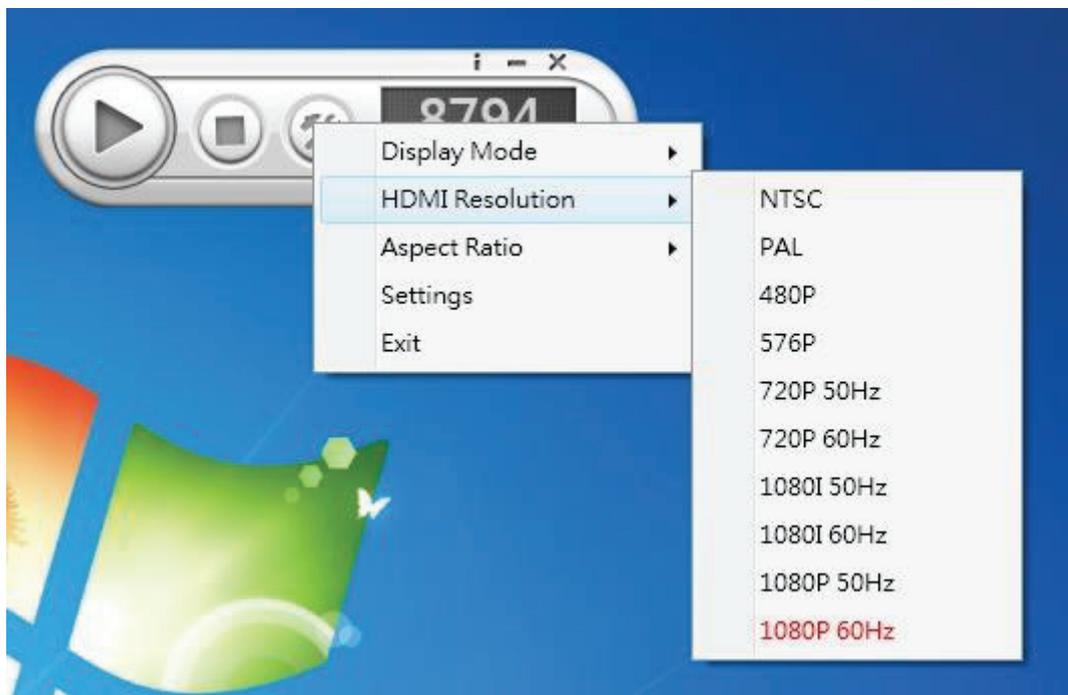


(3) Streaming Mode (This function only can be used when mirroring)



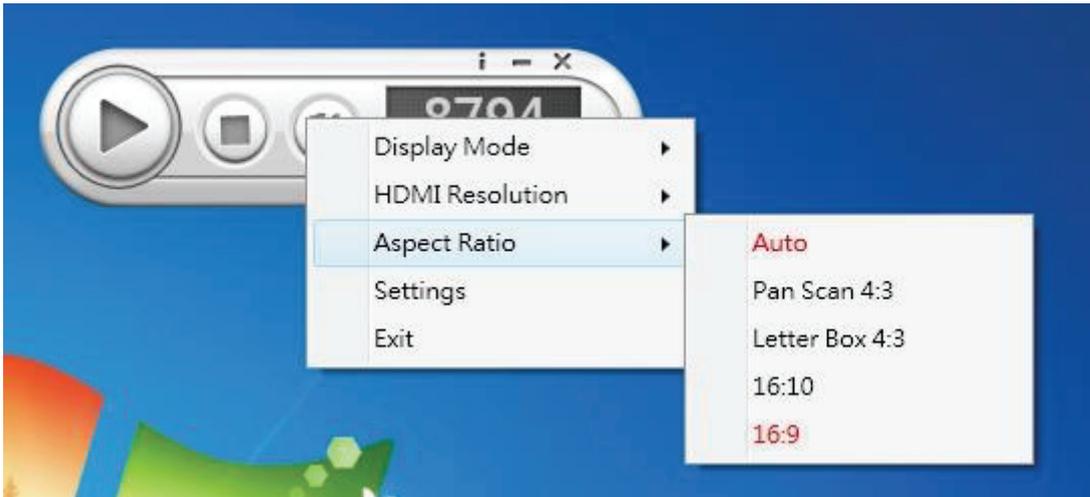
No	Name	Function Description
1	Presentation Mode	Default is presentation mode.
2	Video Mode	If play video the performance is not good, select this will be better.

(4) HDMI Resolution



You can change HDMI output resolution.

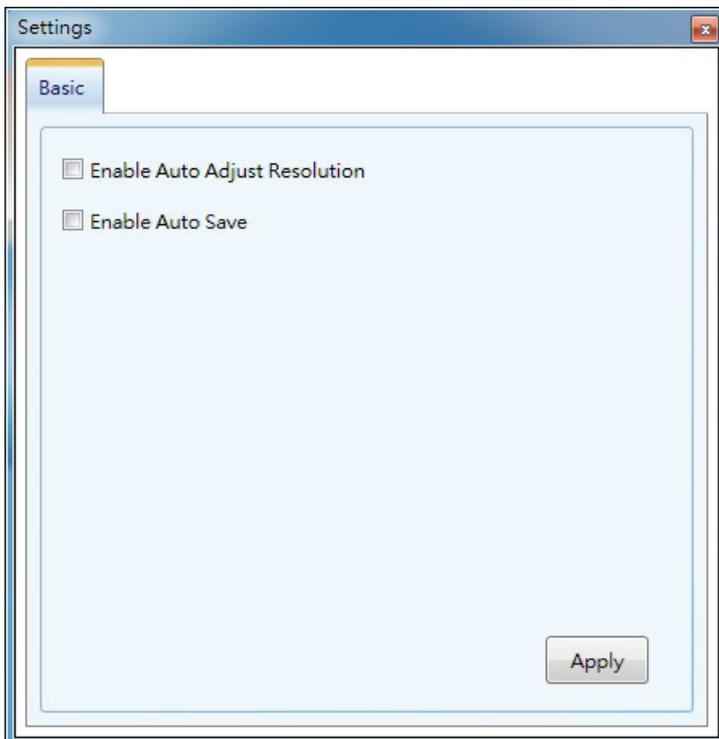
(5) Aspect Ratio



You can change the Rx monitor ratio.

- “Auto” means the ratio will follow the display source.
- “Pan Scan 4:3” means adjust widescreen images so that they can be shown within the proportions of a 4:3.
- “Letter Box 4:3 ”means adjust widescreen images so that they can be shown within the a fully 4:3. The resulting image has mattes (black bars) left and right it.

(6) Setting (Option)



No	Name	Function Description
1	Auto Adjust Resolution	Let your pc/notebook resolution changed by Rx monitor resolution.
2	Auto Save	After reboot this application, all of the settings will be saved.

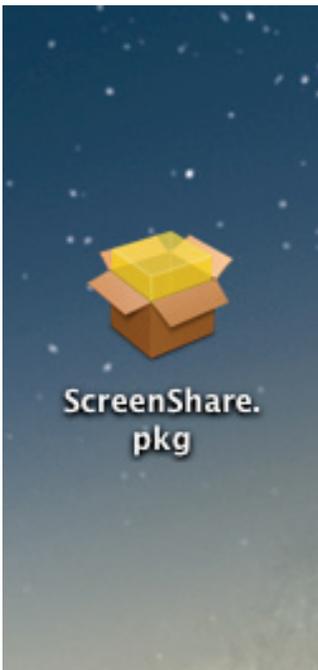
(7) Exit

Exit from ScreenShare application, and go back to instruction page.

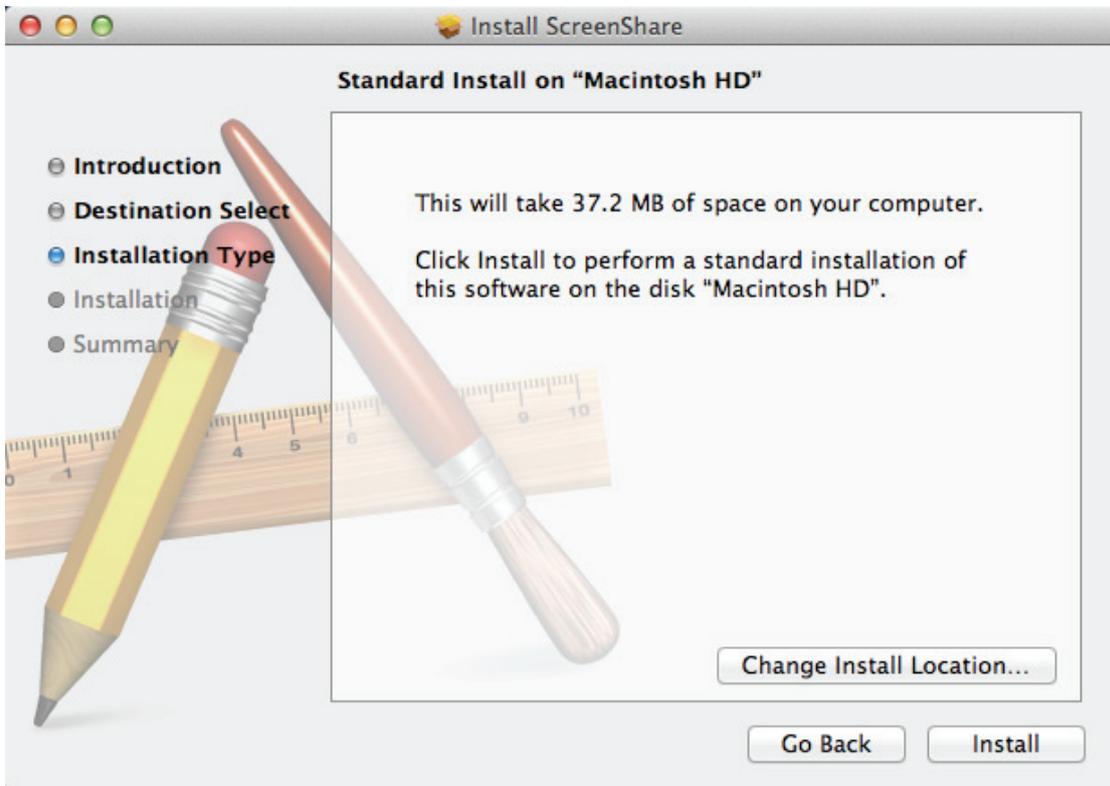
2-1-2 Basic Usage of application software for Mac (Option)

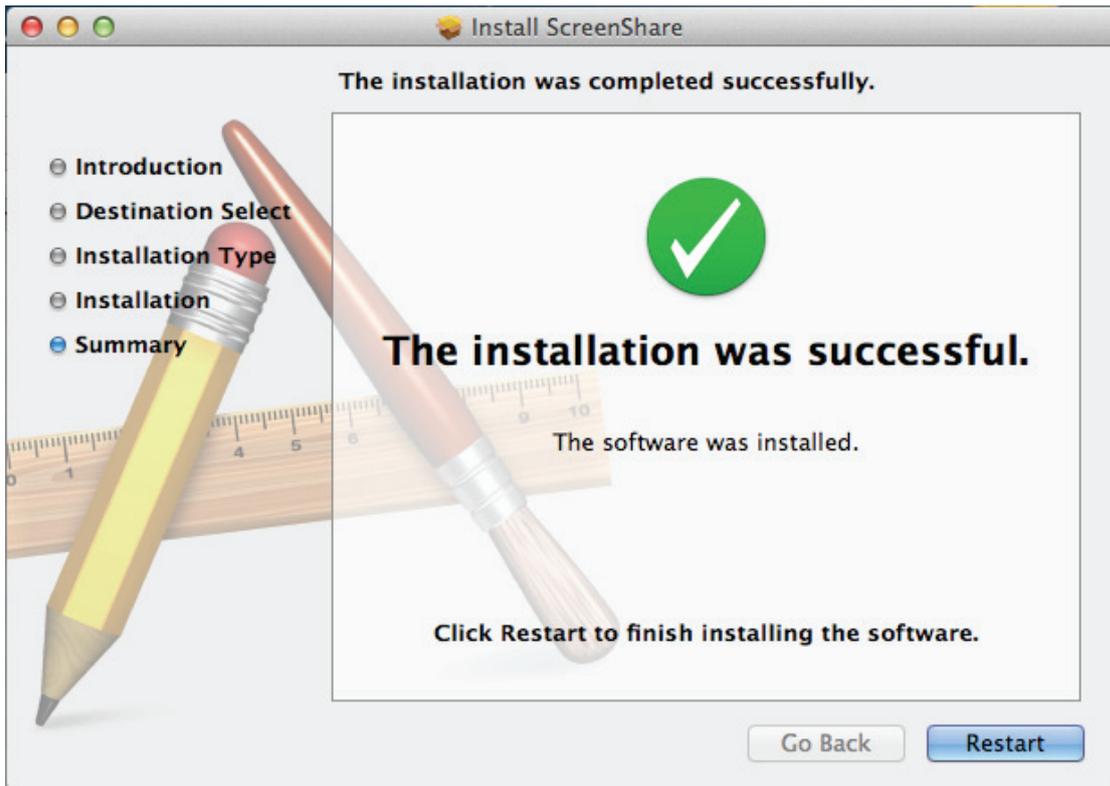
You can install ScreenShare application from the CD onto the Mac devices.

(1) Click twice on the ScreenShare.pkg file to start installing.



(2) Start Installing.





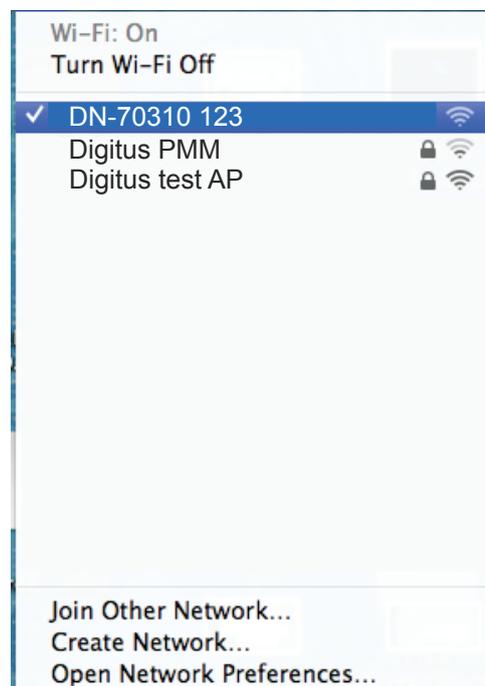
You have finished installing the software ◦

2-1-2-1 Launching ScreenShare

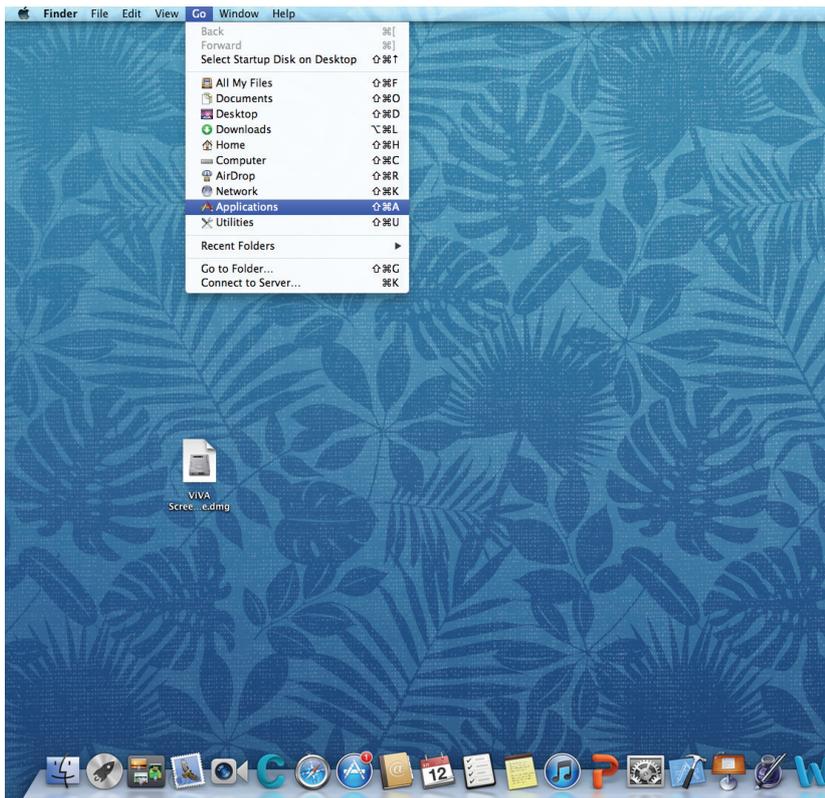
Please follow the steps below to run ScreenShare for Mac OS after DN-70310 is booted up with the following screen displayed on HDMI TV or monitor.



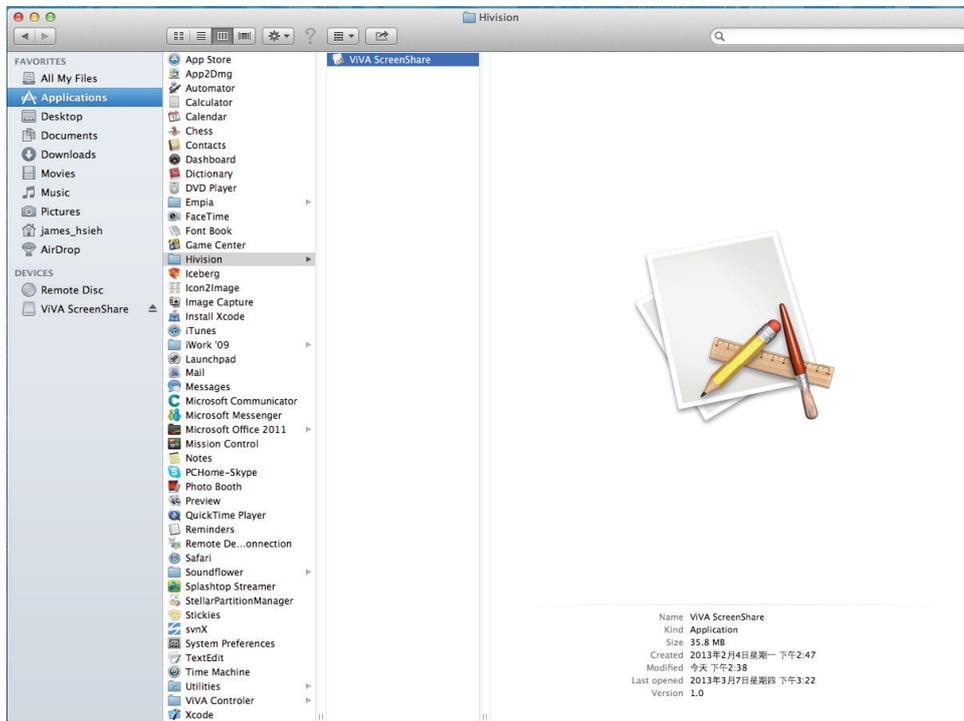
(1) Search and connect to the device's SSID (DN-70310) on the WiFi list on your notebook.



(2) Go -> Applications



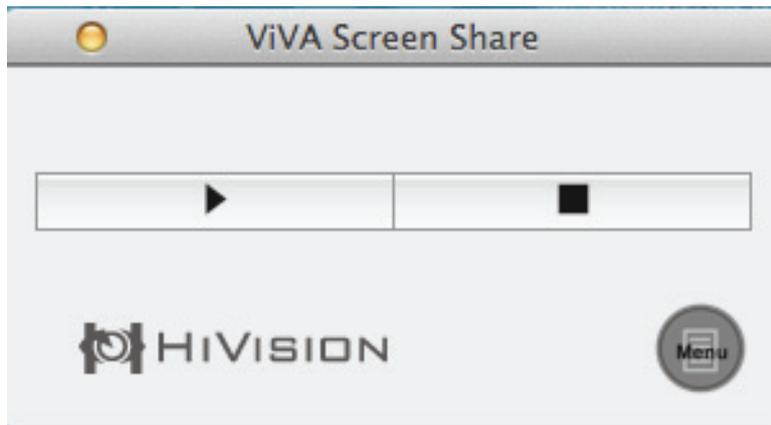
(3) Applications -> Hivision -> ViVA ScreenShare
Press ViVA ScreenShare to start.



(4) ScreenShare will auto detect 'Server IP', please input login code as shown on instruction page.



(5) If login code is correct, application software will appear.



2-1-2-2 User Interface of ScreenShare

Main fuctions



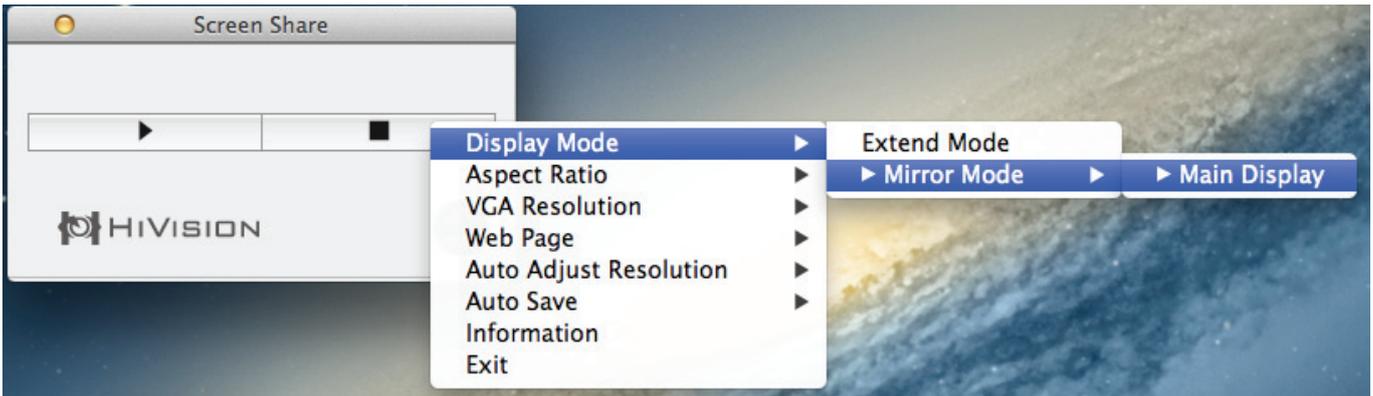
No	Name	Function Description
1	Play	Start / pause presentation.
2	Stop	Stop a progressing presentation and go back to instruction page.

3	Menu	Access menu list.
4	Minimize/Close	Minimize and close the Application Software window.

Menu

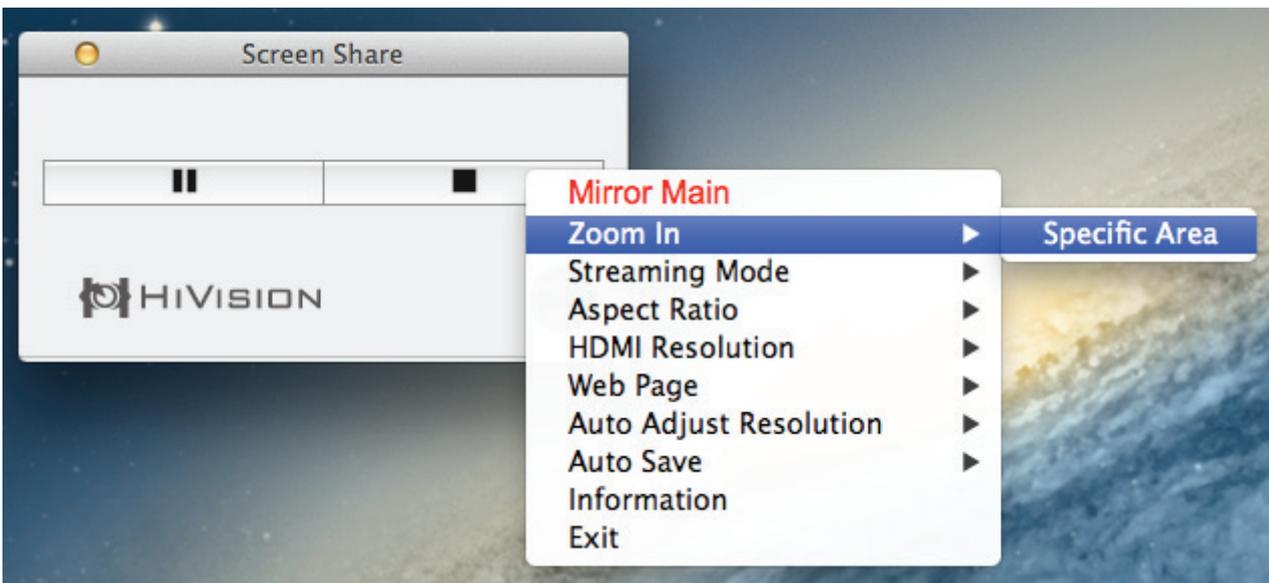
You can also click 'Menu' button to access menu list.

(1) Display Mode



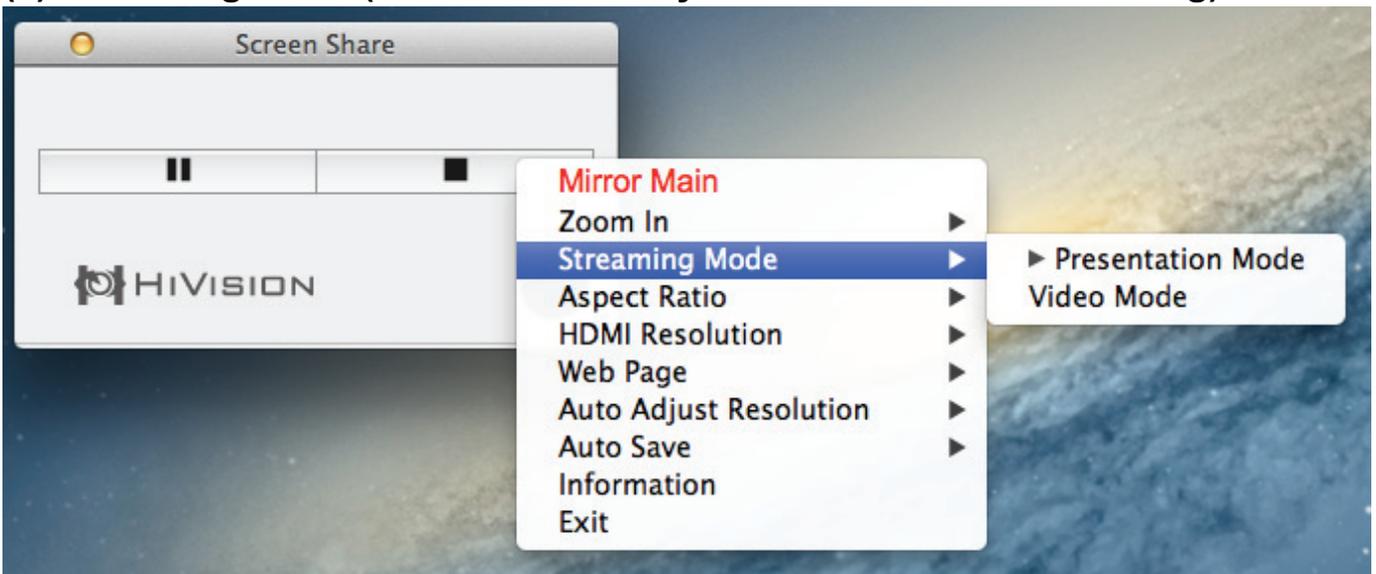
No	Name	Function Description
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(2) ZoomIn (This function only can be used when “Main Display” running)



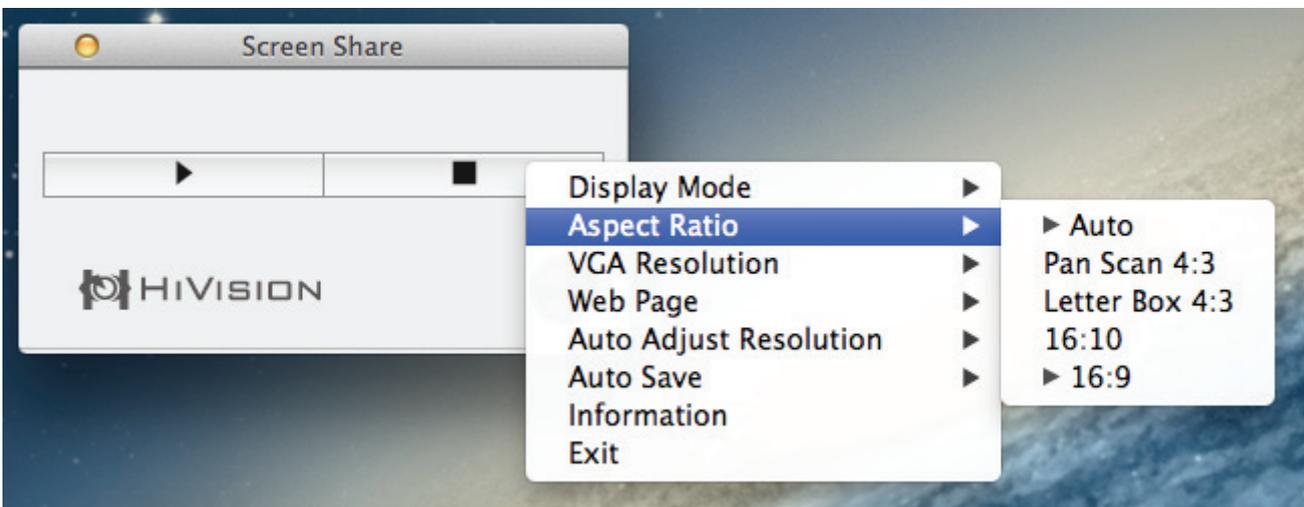
You can decide the region you want to zoom in and display to the monitor.

(3) Streaming Mode (This function only can be used when mirroring)



No	Name	Function Description
1	Presentation Mode	Default is presentation mode.
2	Video Mode	If play video the performance is not good, select this will be better.

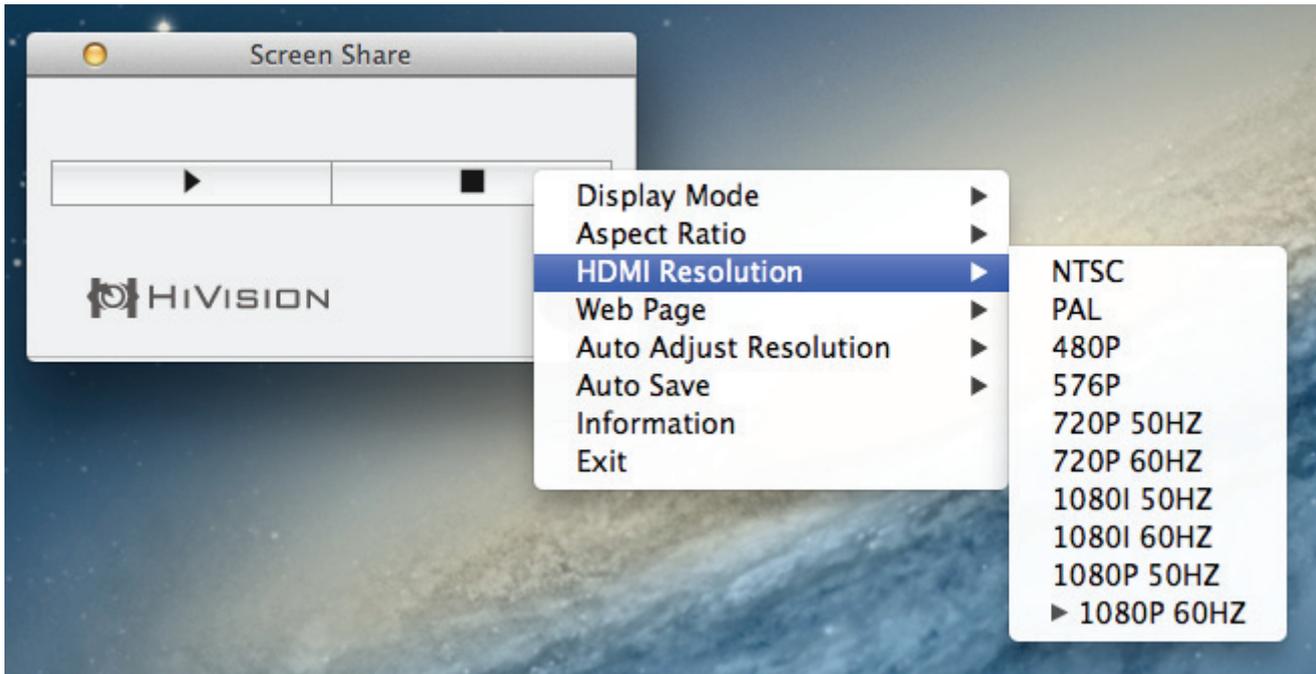
(4) Aspect Ratio



You can change the Rx monitor ratio.

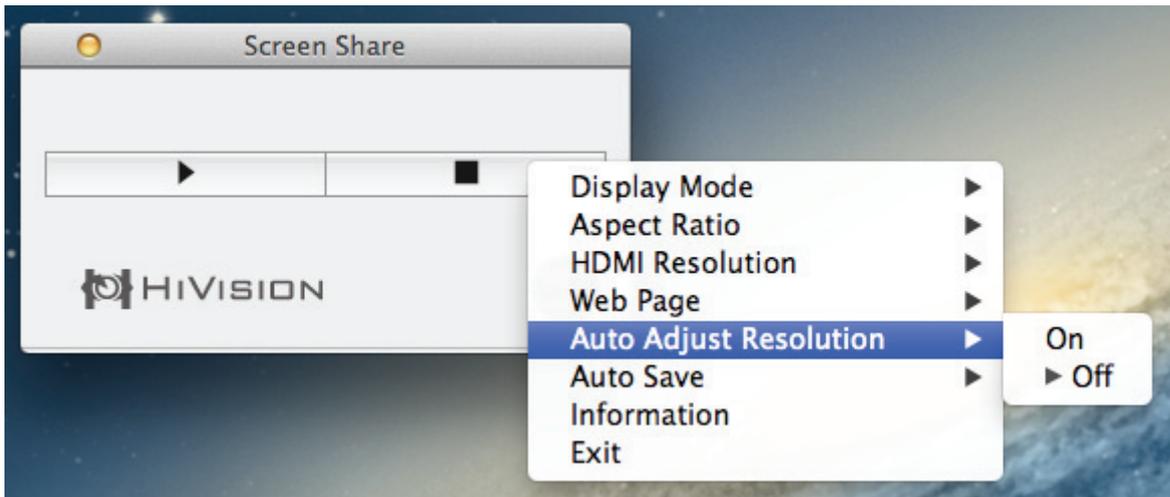
Default is “Auto”, means the ratio will follow the display source.

(5) HDMI Resolution



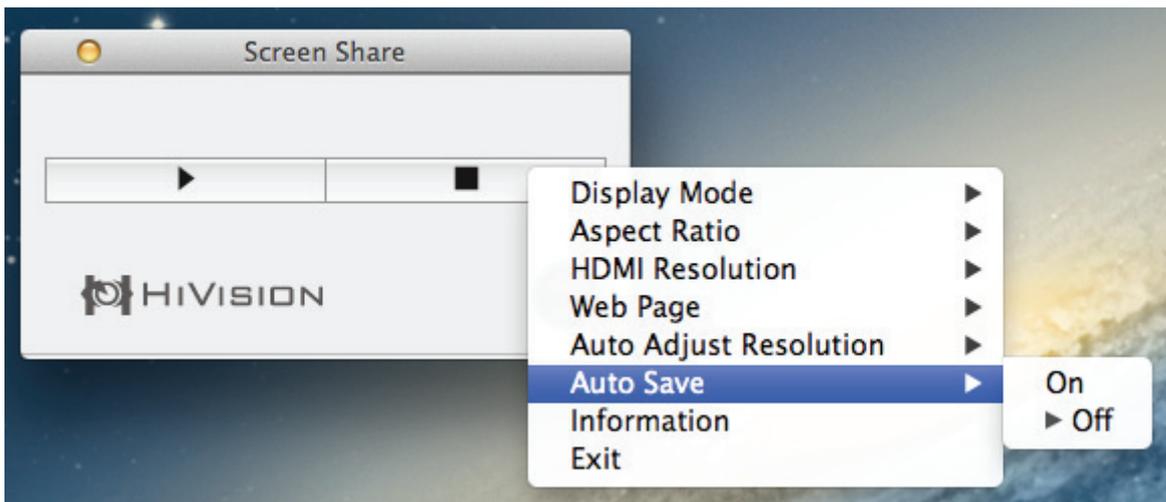
You can change HDMI output resolution.

(6) Auto Adjust Resolution



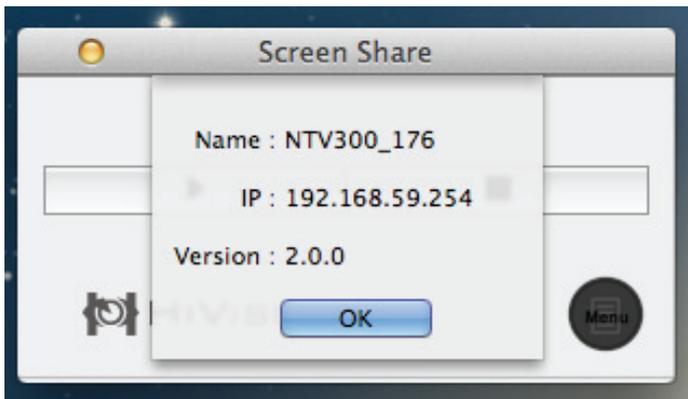
Let your pc/notebook resolution changed by Rx monitor resolution.

(7) Auto Save



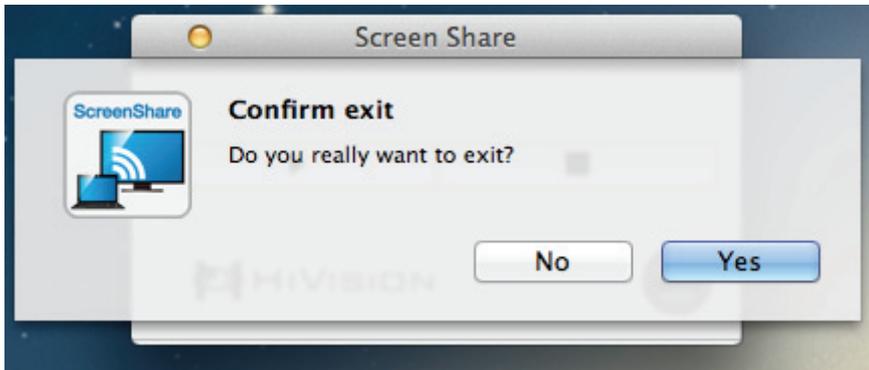
After reboot this application, all of the settings will be saved.

(8) Information



Displays application information, like Adapter name or IP Address and Version number.

(9) Exit



Exit from ScreenShare application, and go back to instruction page.

2-2 Using DN-70310 on Android devices via Mirroring

2-2-1 Launching Android mirroring

To enable Android mirroring, your smart phone must support this feature. Please refer to Appendix for the compatible list of smart phones.

Basic Usage

The setup location of Mirroring connection may be different between different brands of smartphone and tablet PC.

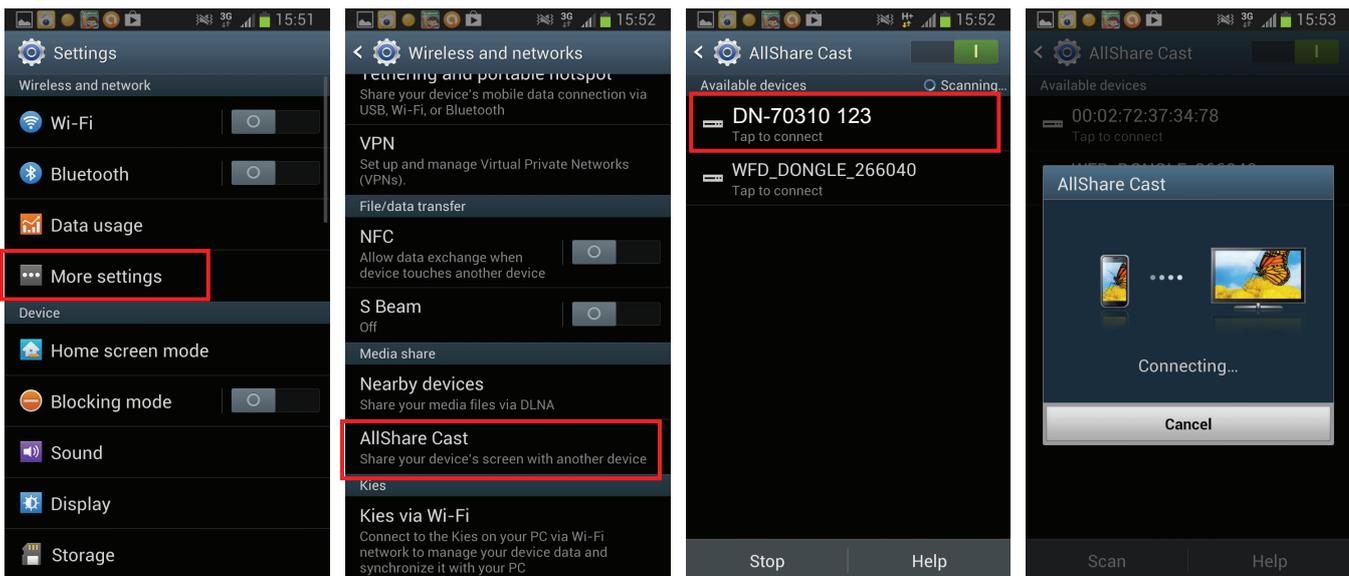
The setup page is usually in “Wi-Fi” => “More setting” or in “Display setting”.

The name normally is called “Screen Mirror”, “Cast Screen”, etc.

Below are the connection guides for some popular brands of Android smartphones.

Type1: Please go to “Settings” -> “More settings”=> “Allshare cast”.

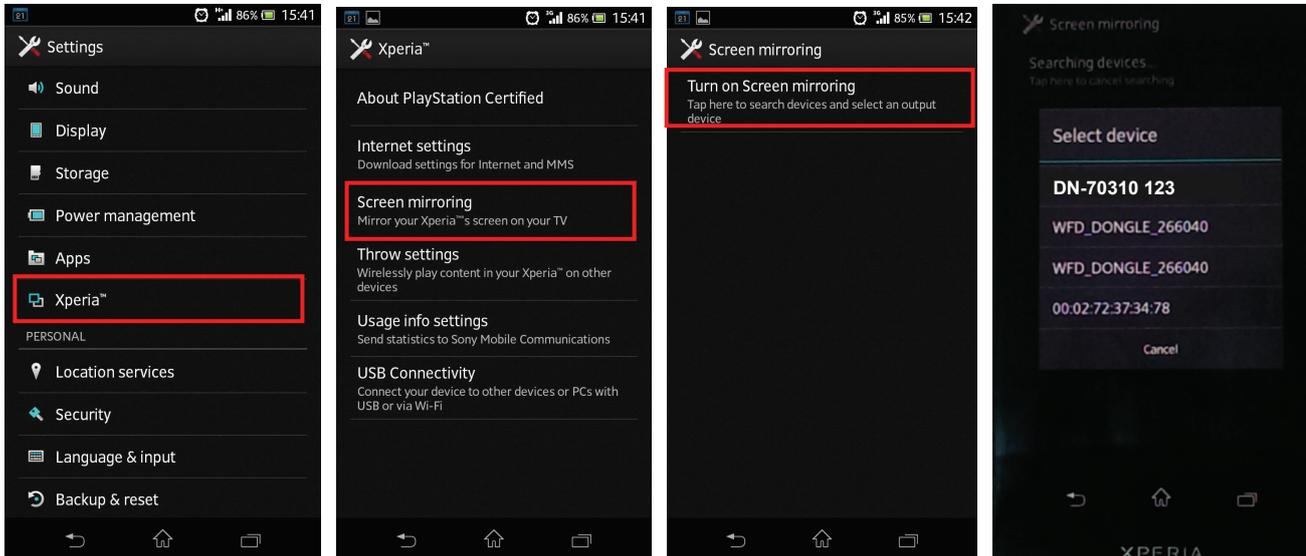
Turn “on” AllShare Cast . Your phone will scan the streaming box, and it will show the SSID of the box. Choose the SSID which you find on the TV, and your phone will connect to the box automatically and begin screen mirroring.



Type2: Please go to “Settings” -> “Xperia” => “Screen mirroring” => “Turn on Screen mirroring”.

Your phone will scan the streaming box, and it will show the SSID of the box.

Choose the SSID, mirroring will begin while your phone connect to streaming box successfully.

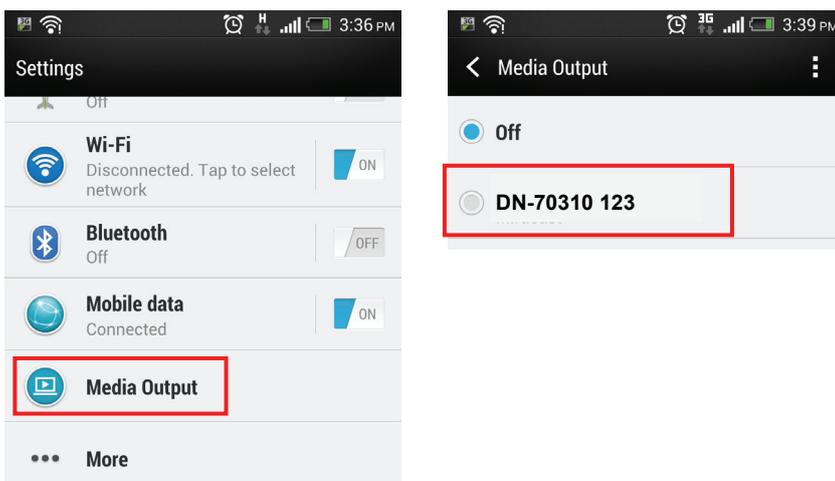


Type3: Please choose “Settings” -> “Media Output”.

The phone will automatically scan the streaming box, and show the SSID.

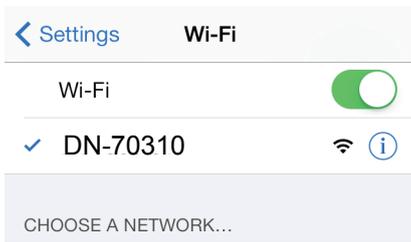
Choose the SSID which you find on the TV, and your phone will connect to the box automatically.

Mirroring will begin while your phone is connecting to streaming box successfully.



2-3 Using DN-70310 on i-Play

(1) Search and connect the device's SSID (DN-70310) on the WiFi list on your iPhone/iPad first.

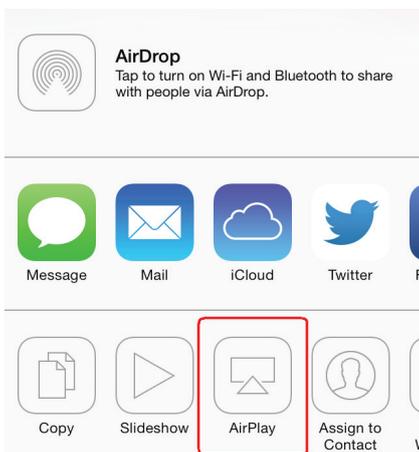


(2) Run "Photos"

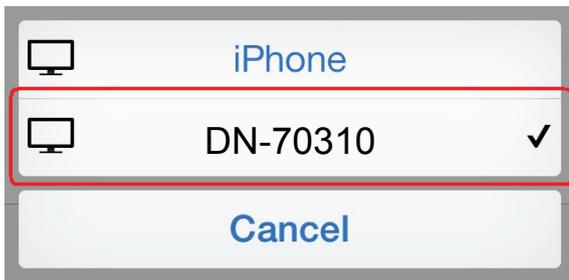


(3) Choose the photos or videos which you want to share.

(4) Press the "Airplay" to show the device list.



(5) Select DN-70310 as your Airplay receiver box, and the photo will be shown on the bigger screen of the HDMI TV or monitor.

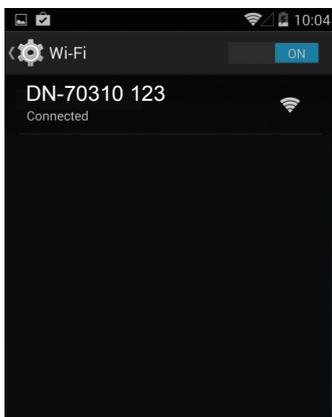


2.4 How to Setup Airfun for media sharing



Airfun Media Streaming

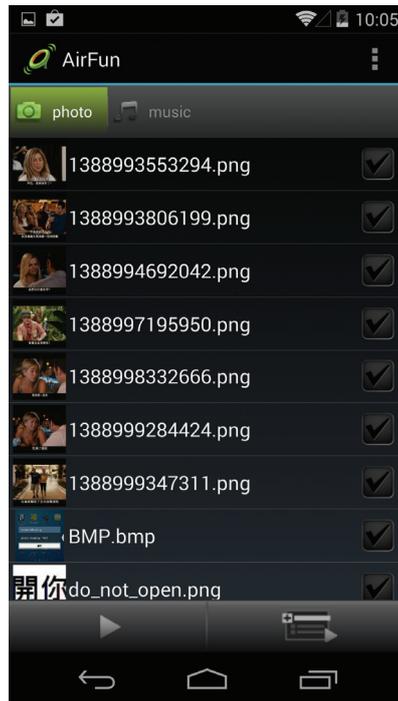
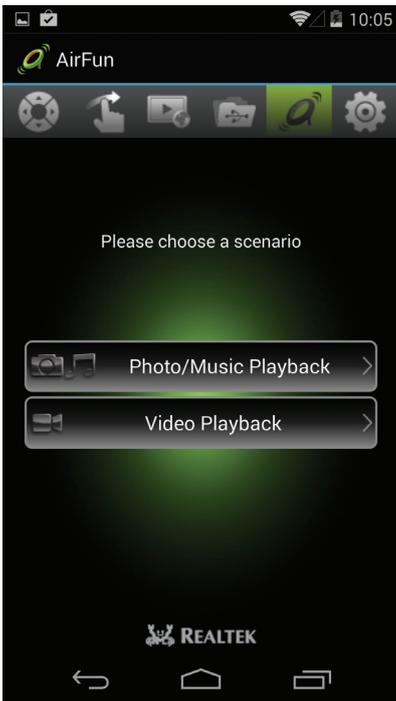
1. Please scan the QR code on the screen or go to the Google play/APP store to download AirFun APP.
2. Then connect to DN-70310 on your Wi-Fi list from your smart devices.



3. Press the Airfun icon on your screen.
4. The Airfun APP will start to search for any devices that support Airfun media sharing. Please select DN-70310 from the available device list.



5. Select this icon to choose the file type which you want to share and present on the HDMI screen.



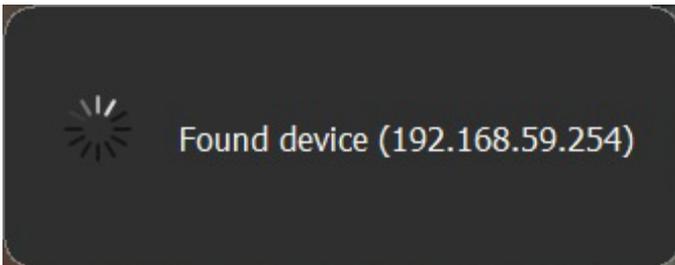
2.4.1 Basic Usage of AIRFUN Utility for Windows software

1. You can install Airfun application in the CD ROM.

2. Double click the AIRFUN icon from your desktop.



3. The Airfun will start to search device.



4. Then you should be able to see your PC screen on the TV now.



5. You can drag the video/photo/music file to Airfun main menu directly. For video files, please drag files to the right folder.



6. For photo/music files, please drag files to the left folder.



2-4-2 Advanced Setup

Please connect WiFi to DN-70310 first, and run the Airfun APP, you should be able to see the UI bellow.

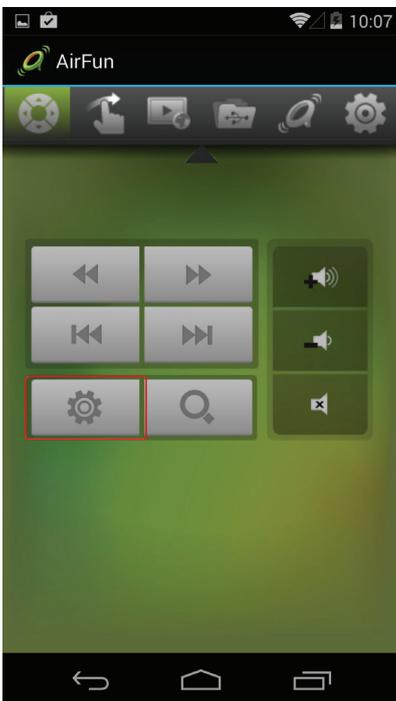


Now you can do basic settings, such as change the SSID, connect to router, or choose the language.

If you need advanced settings, please go to the remote control page below, and choose next page, as marked in red.



Press the gear icon (marked in red), to enter setup.

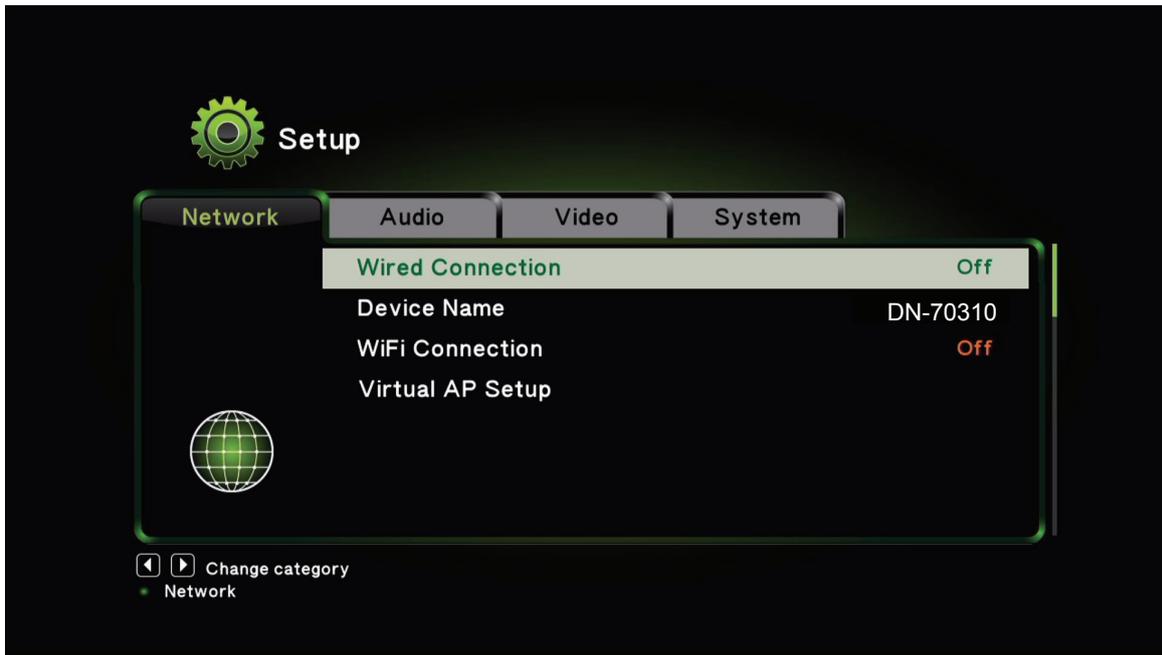




In the setup page, you can use the virtual remote controller to change the setting.

- Select "left/right=> OK" to enter the setting page for Network / Audio / Video / System.
- Select "Return" to go to the previous page or standby screen.

2-4-3-1 Network Setting



Wired Connection

Item	Description
DHCP IP (AUTO)	DN-70310 will obtain an IP address from DHCP server automatically.
Fixed IP (Manual)	Set DN-70310 IP address manually. Fill the fields below to setup IP address.

Device Name

Item	Description
Device Name (SSID)	Change the Device Name(SSID). Default is "DN-70310".

WiFi Connection

If you are setting for the first time, you will see below screen, click "on".



Then there will show the Wireless AP list on the screen. Please choose the AP you want to connect. The function is to bridge to Internet via another Wireless AP.



When it's successfully connected, standby screen will show router name at the right bottom corner.



If you wish to disconnect with router, click "off" on the WiFi connection page.



More information, please reference Chapter 3.

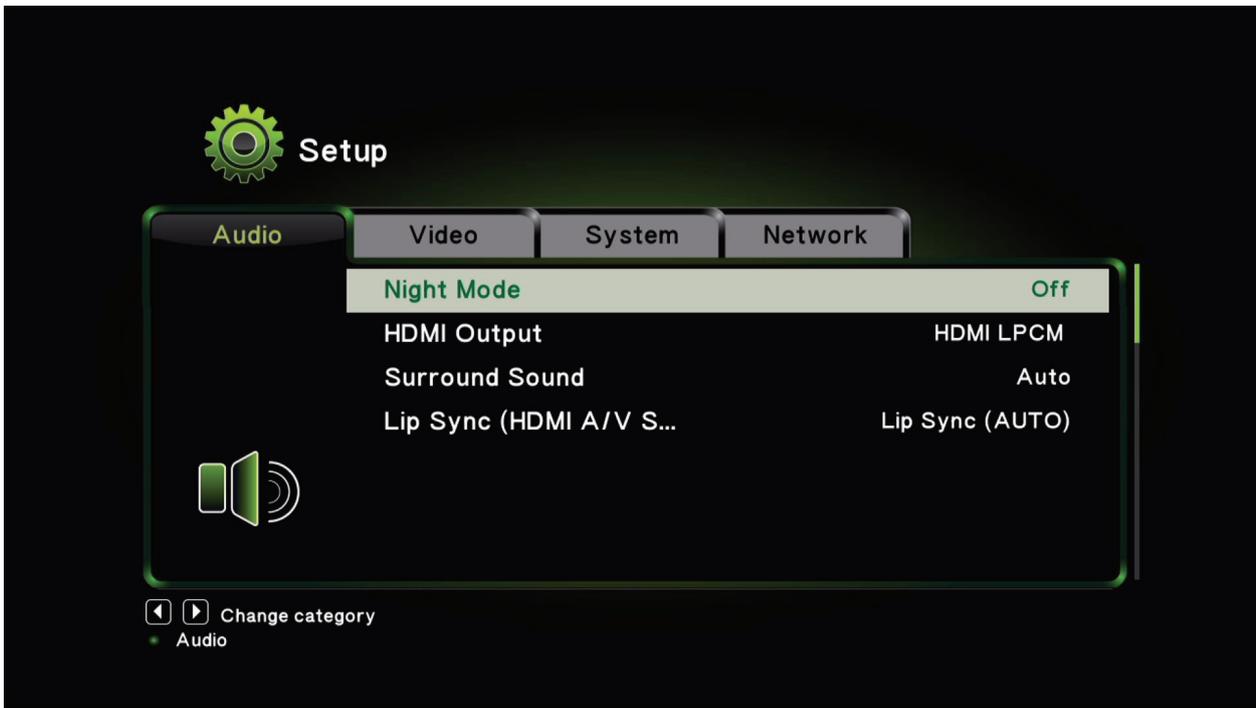
Virtual AP Setup

Item	Description
Wireless Security	<p>Open System Disables wireless encryption.</p> <p>WPA Key Enable WPA + WPA2 encryption. Wireless clients must support WPA encryption and know the encryption passphrase you set here.</p>

Password	If Wireless Security is enables, you can set a wireless password.
Radio Band	Set the Radio band to 2.4GHz or 5GHz. Please confirm your PC/NB support 5GHz before you set the radio band to 5GHz
5G Preferred Channel	If the Radio band is 5GHz now, you can change the 5G frequency. Default channel is 36,40.
Save Change	Save the configuration

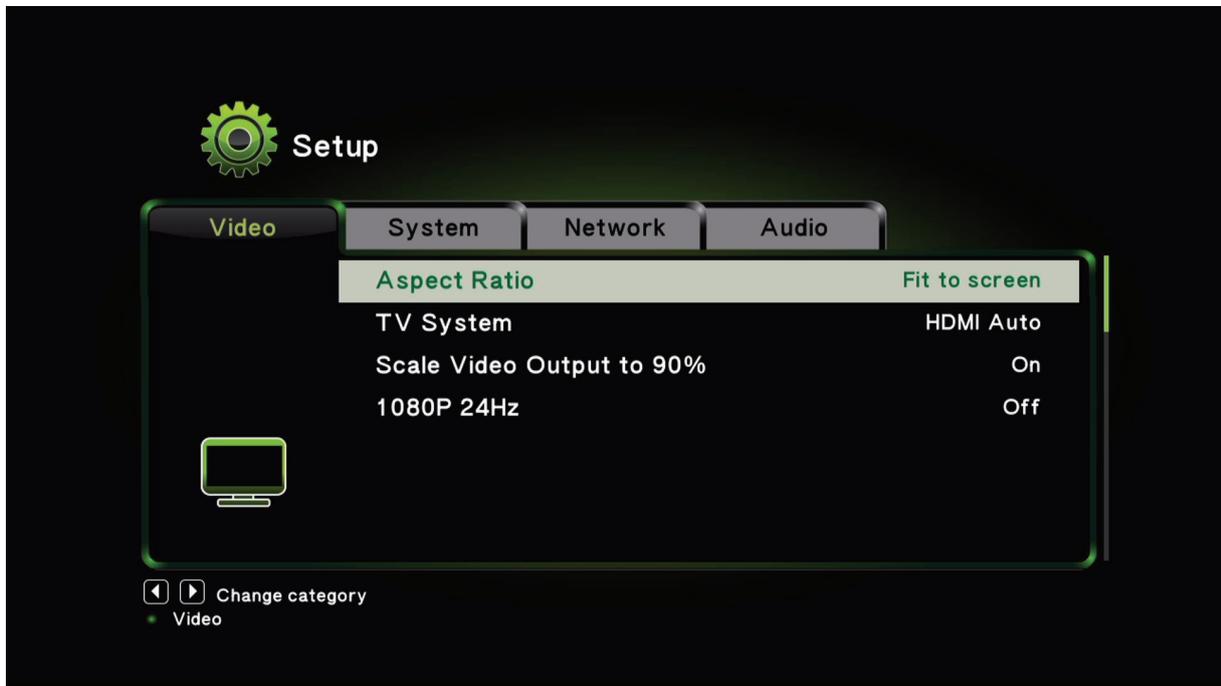
2-4-3-2 Audio Setting

You can adjust the advanced audio setting such as Night mode, HDMI Audio output format, Surround sound setting and Lip Sync setting in this page.



2-4-3-3 Video Setting

You can adjust Aspect Ratio, TV out video format, and other video setting in the video setup page.



2-4-3-4 System Setting

You can set the OSD language, reset to Factory default, check the firmware version, and do the firmware upgrade in the system setup page.

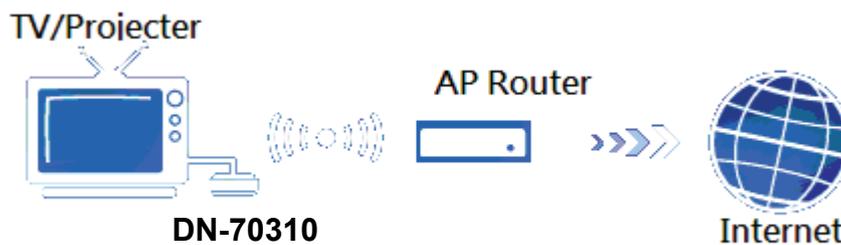


CHAPTER 3: ROUTER APPLICATION

By using a router, it provides a solution for users who are unable to access online contents while their exist Wi-Fi is occupied to connect to DN-70310. DN-70310 allows two methods ,Wi-Fi, or Ethernet LAN cable to connect to your router, giving the flexibility to Internet connection whichever method is most convenient.

While connecting with a router, users will no longer find the original SSID on WiFi list. In such case, users have to connect your device to your router in advance to use Airfun Mediasharing, ScreenShare and iPlay function. Please note that for Android Mirroring, it is a direct point to point connection between the Android device to DN-70310. Therefore the router option under Android mirroring mode is disabled.

(1) Wi-Fi connection:



Step1: Click and turn on your WiFi connection

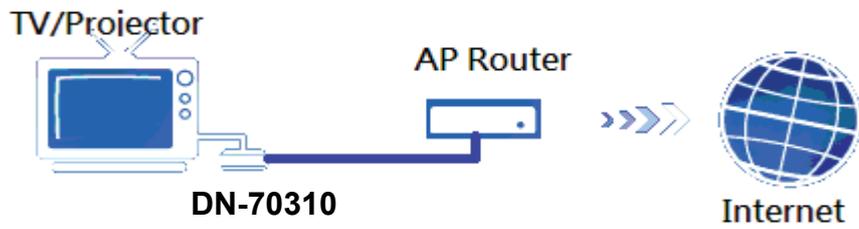
Step2: The Wireless AP list will show on the screen. Please choose the router you want to connect.

When successfully connected, the UI will change as below:



** Please note! File streaming and screen mirroring performance might be deteriorated by using this method due to limited bandwidth.

(2) Ethernet LAN connection:



Step1: Connect an Ethernet cable from the LAN port on DN-70310 to an AP router's LAN port.

Step2: DN-70310 will auto detect LAN connection.

Once it's successfully connected, the UI will change as below:



** Please note! DN-70310 must connect to AP router and can't connect to WAN directly.

APPENDIX A: SUPPORT RESOLUTION

Interface	Output resolution
HDMI	NTSC,PAL,480p,576p,720p50Hz,720p60Hz,1080i50Hz,1080i60hz,1080p50Hz,1080p60Hz

APPENDEX B: Compatible list for Android mirroring

Module
Google Nexus 4
Google Nexus 5
Google Nexus 7 II
HTC New One
HTC One mini
HTC Butterfly
HTC Butterfly S
LG Optimus G L180L
LG Optimus G L-E973
LG Optimus G L-01E
Samsung Galaxy S3
Samsung Galaxy S4
Samsung Galaxy Note2
Samsung Galaxy Note3
Samsung Note 10.1
Samsung Galaxy Tab3 8.0
Samsung Galaxy Tab 10.1
Sony Xperia TX
Sony Xperia T
Sony Xperia V
Sony Xperia Z
Sony Xperia Z1
Sony Xperia AX/LV
Sharp SH-09D
Sharp SH-10D
ASUS PadFone Infinity
CoolPad YL-Coolpad 9960
Xiaomi M2/2A/2S
Oppo Find5

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