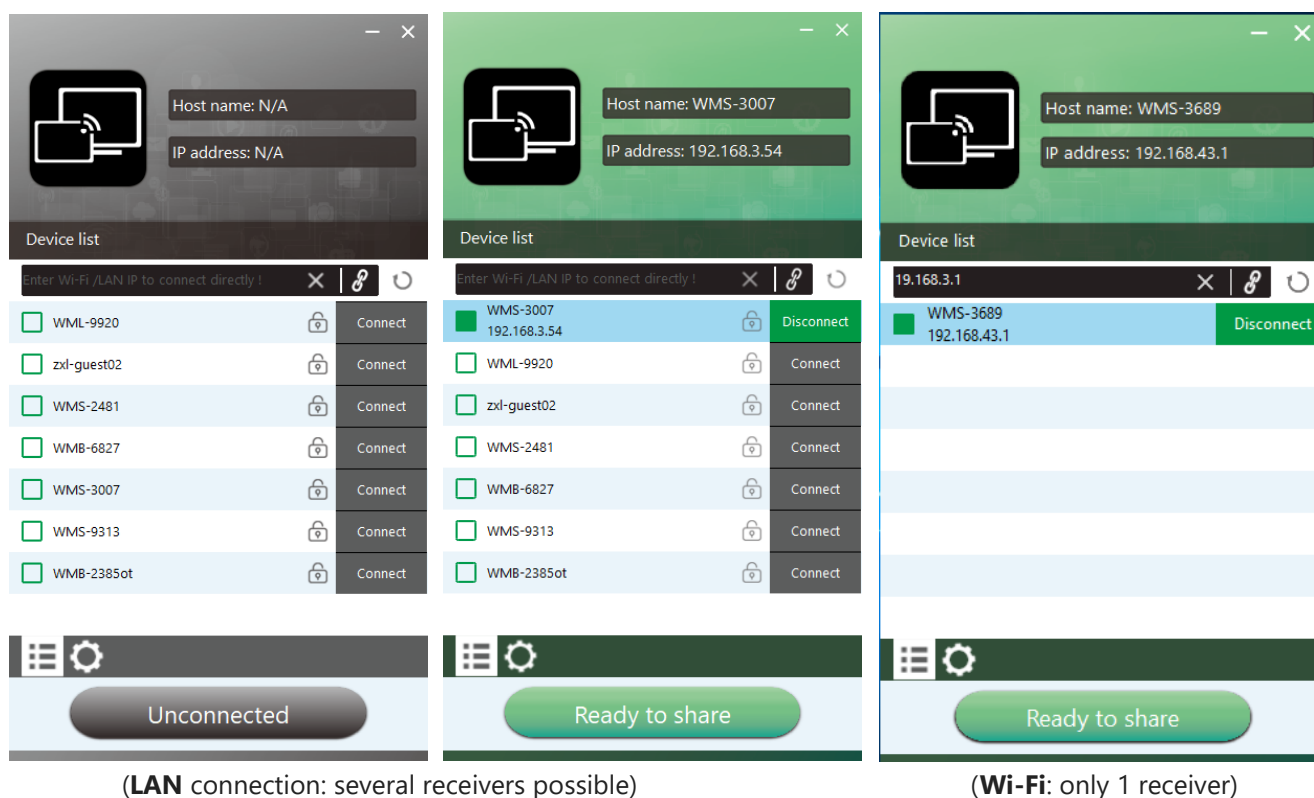


8.1.3 Microsoft Windows PC/Laptop without Dongle

For first time user, you have to **copy the Launcher program "WirelessMedia for Windows" first on your Laptop.**

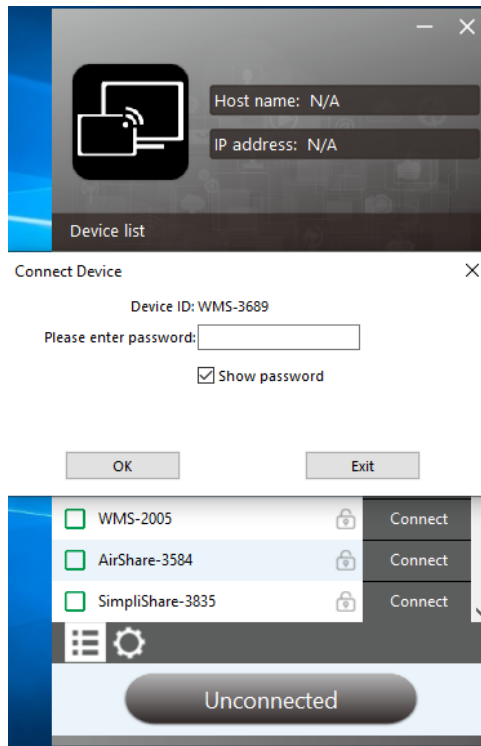
When the Launcher program is already loaded, continue with Step 2.

1. When Launcher program is not yet installed on PC, refer to chapter 7.4.
2. Connect your laptop to **Wi-Fi network displayed on the Home screen** ("Guest", "Staff"), or connect to the **LAN** on the network using a network cable.
3. Double-click the "**WirelessMedia-windows.exe**" Launcher program  , a list of all available "WirelessMedia" in the **same network** will be displayed, select which device you want to connect to. The connections are password protected (lock icon ).

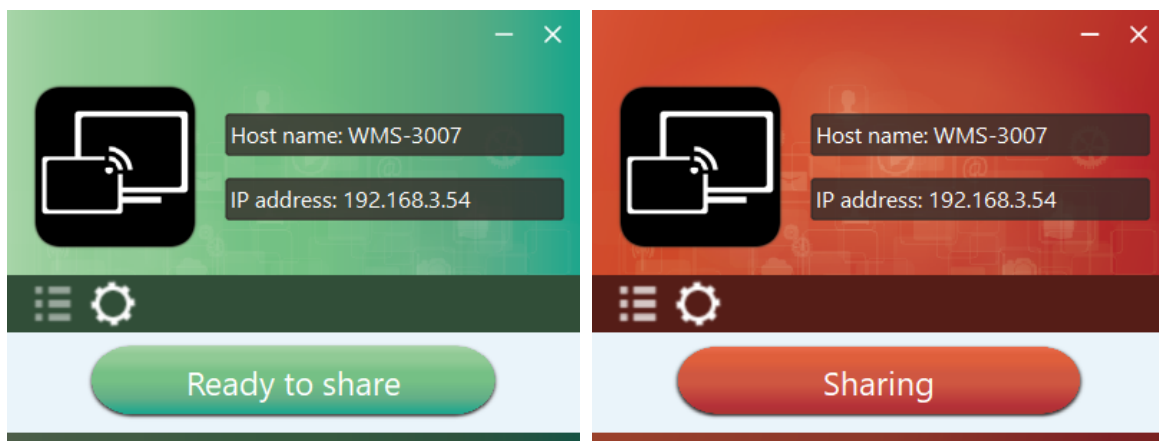


4. Enter base unit password and click "connect", the system is ready to share.

You can also manually connect by entering the name (SSID) or IP address. (click icon ). Enter the corresponding base unit password, press 'OK', the system is "**Ready to share**".



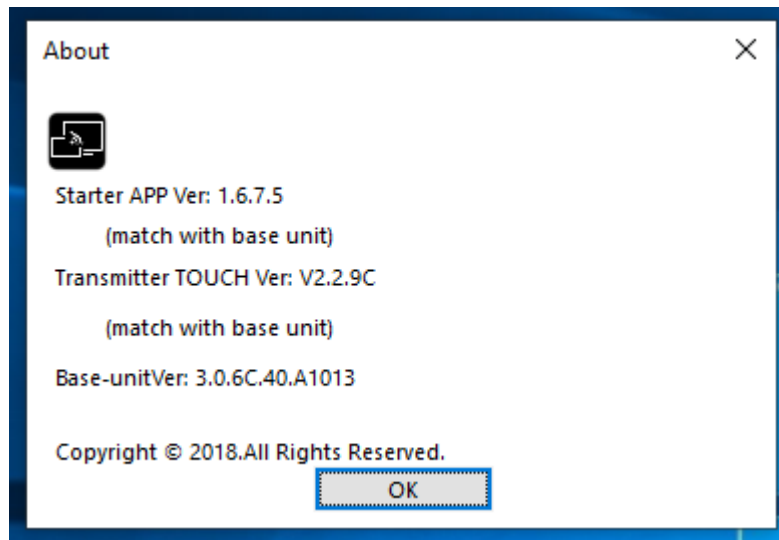
5. Click "Ready to share" in PC, when window color is static red, the screen is mirroring to the main screen.



6. Click the **visual button again**, to stop mirroring, window color shows green again. You can minimize the APP-window, in Windows taskbar you can see if screen is mirroring  or not .

Right click the WirelessMedia status icon  in Windows taskbar to open up the **context- menu**.

- **"About"**: You can check the software versions of the Base-unit, the dongle and the launcher program.

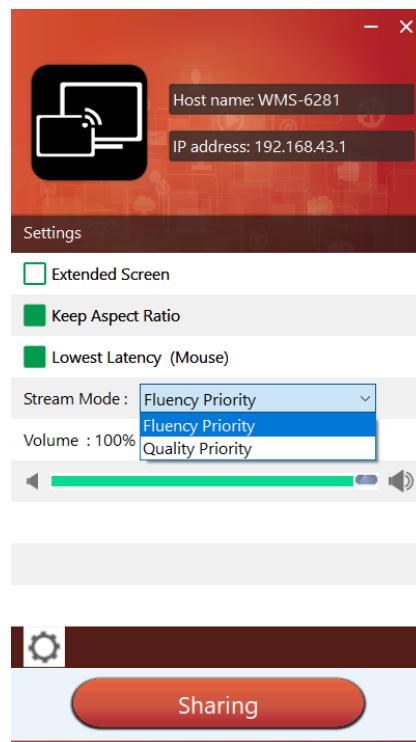


- **“Exit”**: End APP. Exiting the App completely.

If you click the **“close”** in the upper right corner of the app, the app in the task bar is only minimized and can be recalled again from the taskbar at any time.

8.1.4 Options for Microsoft Windows PC / Laptop – Extended Screen

Click the icon  in App to open/close “options”.



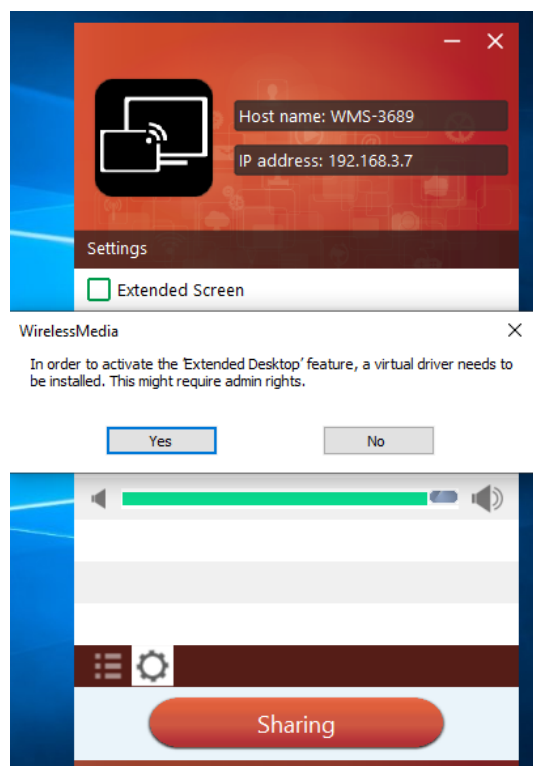
"Options":

- **Extended Screen:**

Transfers extended desktop of active source. (depending on your operating system, may require the installation of the virtual driver "**ExtendedDisplay**" for function with Windows 10).

The primary screen (1) is displayed on the laptop and the virtually extended screen (2) is displayed on the main screen. If the PC has already connected an extended screen (3), the extended screen (2) will always be displayed on the main screen.

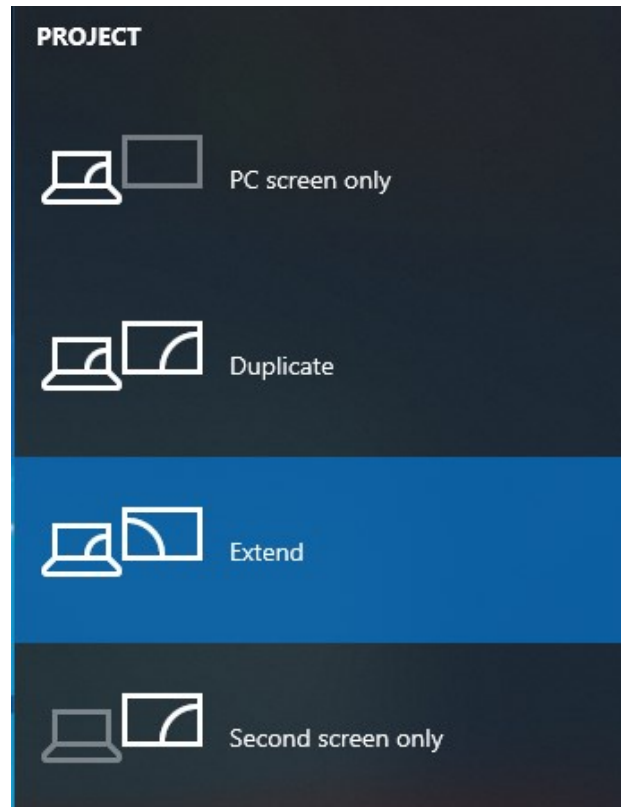
For the first time use of function "Extended Screen", click the "Extended Screen", will pop out a message to indicate the installation of the "ExtendedDisplay" driver. Click "yes" to continue, once installed, the "Extended screen" function is ready to use.



Note:

If you select the "Extended Screen" feature, Windows automatically switches to "Extended Mode". If you stop the transfer with "WirelessMedia" (Pause), Windows remains in "Extended Mode" until you press "**Windows key + P**" on the laptop to select the "PC screen only" mode.

"Remote control" is available for "Extended screen" since Firmware version V3.0.7C.40A1020.



- **Keep Aspect Ratio:**
Keep the original aspect ratio to display on the main screen.
- **Stream Mode:**
 - Fluency Priority: Default
 - Quality Priority: Better quality on video and audio.
- **Low Latency Mouse:**
The setting is applied individually for this laptop only. The shape of mouse-pointer is equal the shape in application. There may be a small delay in movement of the cursor (approx. 150 ms). The movement of mouse-pointer is displayed very smooth with **hardly noticeable delay** (about 20 ms) on the main screen, which significantly improves the operation of the application from the main screen. The look of the mouse pointer is every time, in all applications, like a typical cursor arrow.
- **Volume Slider:**
Adjust the playback volume of the main screen when presentation laptops is active.

8.1.5 MAC OS PC/Laptop with Dongle

At least **operation system macOS 10.9** is required.

For first time user, you have to **copy the Launcher program "WirelessMedia for MAC" first on your Laptop. Run this Launcher program.**

When the Launcher program **"WirelessMedia for MAC"** is already loaded, continue with Step 2.

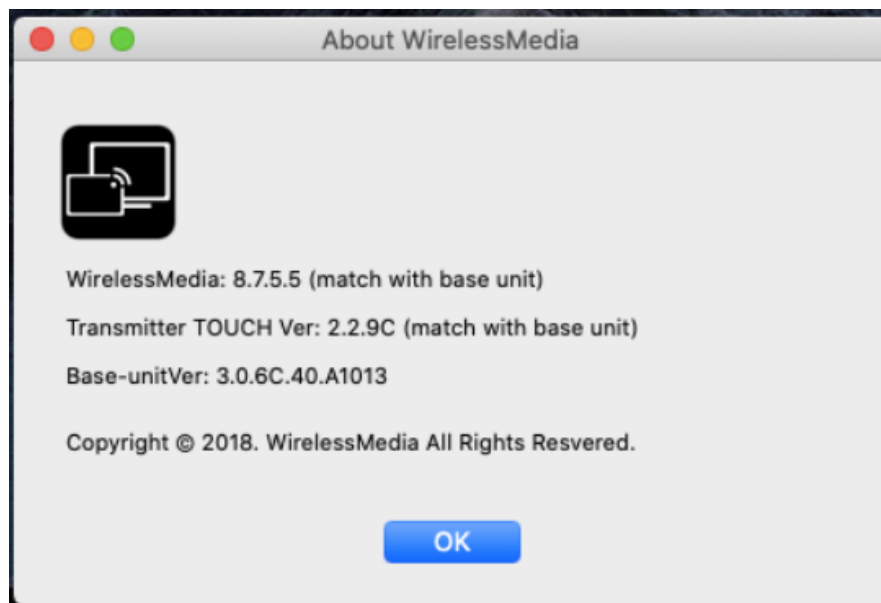
1. When Launcher program is not yet installed on PC, refer to chapter 7.4.
2. Connect your laptop to **Wi-Fi network displayed on the Home screen** ("Guest", "Staff"), or connect to the **LAN** on the network using a network cable.
3. Plug a dongle **to the USB port of your Macbook**. The WirelessMedia application is starting automatically and a symbol  is displayed in the dock and in top menu-bar.
4. Until the transmitter button shows a static **green** LED indicator, or till you see a message table showing up **"Ready to share"**, you could click to start mirroring.



5. Click dongle or visual button again to stop mirroring, LED or window color shows green again.

Right click the WirelessMedia status icon  in Windows taskbar to open up the **context- menu**.

- **"About"**: You can check the software versions of the Base-unit, the dongle and the launcher program.



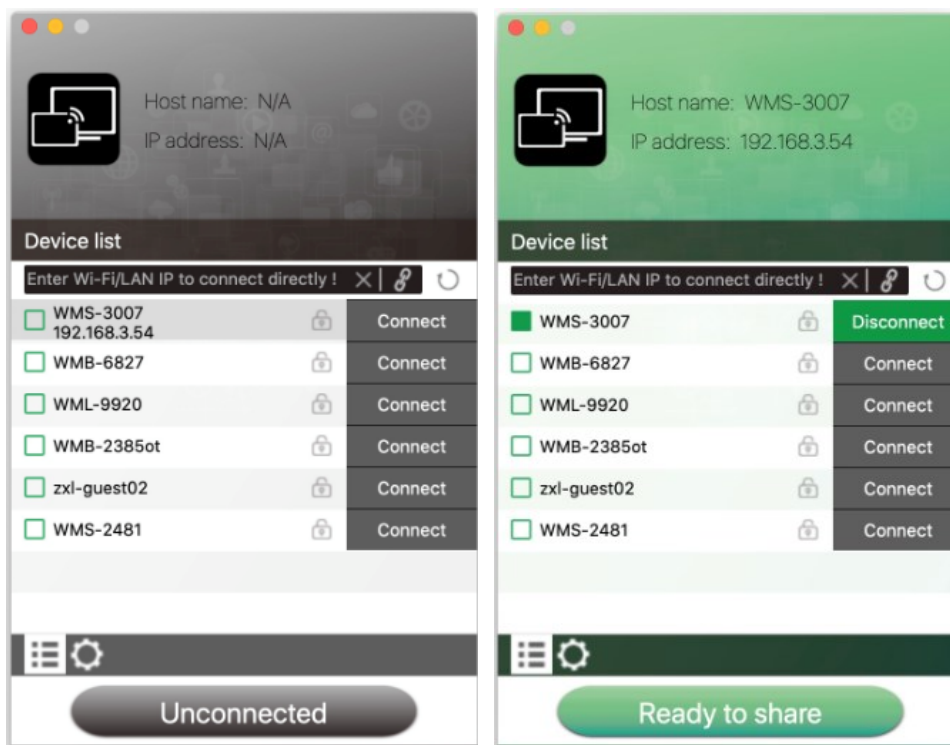
- **"Exit"**: End APP. Exiting the App completely.
If you click the **"close"** in the top menu bar of the app, the app is only minimized and can be recalled again in the dock at any time.
6. **Disconnect at end of meeting.**

8.1.6 MAC OS PC/Laptop without Dongle

For first time user, you have to **copy the Launcher program "WirelessMedia for Mac" first on your Mac.**

When the Launcher program is already loaded, continue with Step 2.

1. When Launcher program "**WirelessMedia-macOS.app**" is not yet installed on PC, refer to chapter 7.4.
2. Connect your Mac to **Wi-Fi network displayed on the Home screen** ("Guest", "Staff"), or connect to the **LAN** on the network using a network cable.
3. Double-click the "**WirelessMedia for Mac**" Launcher program  , a list of all available "WirelessMedia" in the **same network** will be displayed, select which device you want to connect to. The connections are password protected (lock icon ).



(**LAN** connection: several receivers possible)

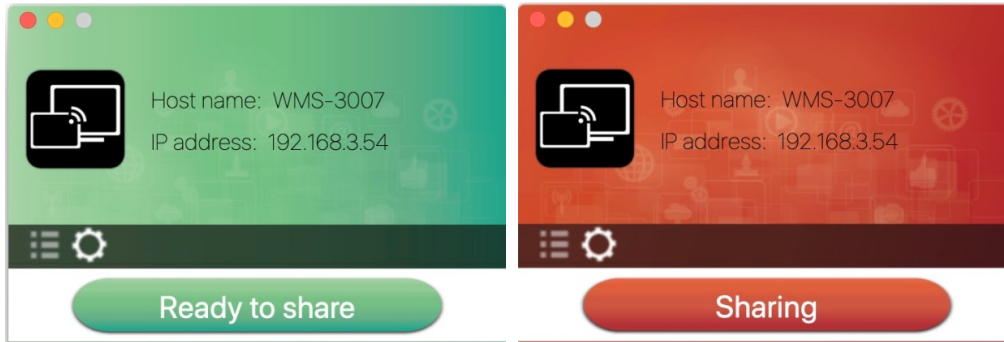
(**Wi-Fi**: only 1 receiver)

4. Enter base unit password and click "connect", the system is "Ready to share".

You can also manually connect by entering the name (SSID) or IP address. (click icon ).

Enter the corresponding base unit password, press '**OK**', the system is "**Ready to share**".

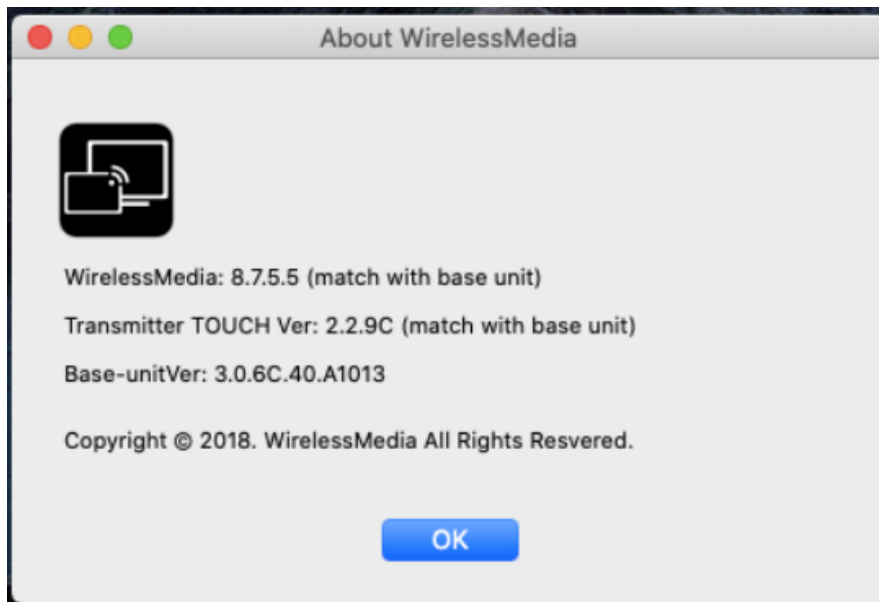
5. Click the visual button "Ready to share" in Mac, when window color is static red, the screen is mirroring to the main screen.



6. Click the **visual button again**, to stop mirroring, window color shows green again. You can minimize the APP-window, in top menu-bar you can see if screen is mirroring   or not .

Right click the WirelessMedia status icon  in top menu-bar to open up the **context- menu**.

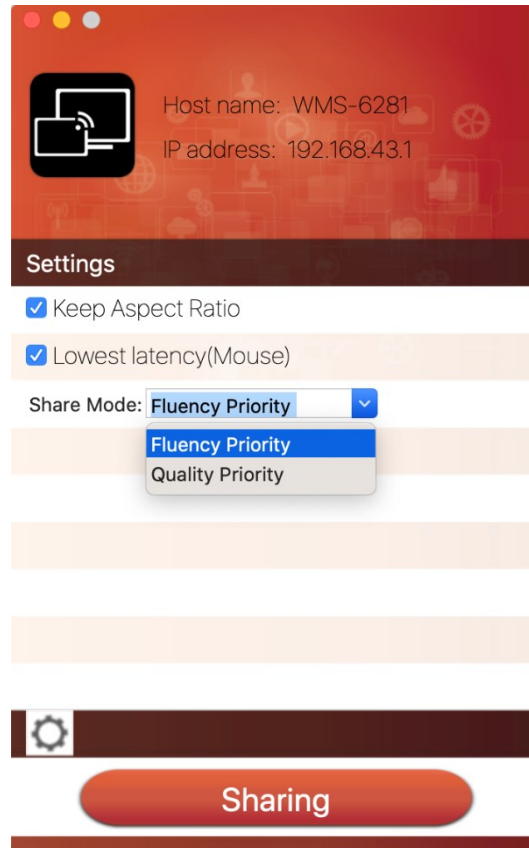
- **"About"**: You can check the software versions of the Base-unit, the dongle and the launcher program.



- **"Exit"**: End APP. Exiting the App completely.
If you click the **"close"** in the menu bar of the app, the app in the top menu-bar is only minimized and can be recalled again from the top menu-bar at any time.

8.1.7 Options for Apple MacOS, MacBook – Extended Screen

Click the icon  in App to open/close “options”.



“Options”:

- **Extended Screen:**
Transmits the Extended desktop (“Use a Separate Display”) **only via AirPlay**, when activated for Display on WirelessMedia.
- **Keep Aspect Ratio:**
Keep the original aspect ratio to display on the main screen.
- **Lowest Latency (Mouse):**
The setting is applied individually for this laptop only. The shape of mouse-pointer is equal the shape in application. There may be a small delay in movement of the cursor (approx. 150 ms). The movement of mouse-pointer is displayed very smooth with **hardly noticeable delay** (about 20 ms) on the main screen, which significantly improves the operation of the application from the main screen. The look of the mouse pointer is every time, in all applications, like a typical cursor arrow.
- **Stream Mode:**
 - Fluency Priority: Default
 - Quality Priority: Better quality on video and audio.

8.2 Transmitting IOS mobile device

8.2.1 How to use AirPlay?

AirPlay: WirelessMedia Base Unit supports "Airplay", which enable mirroring the desktop of your Apple device such as iPhone, iPad etc. on the main screen.

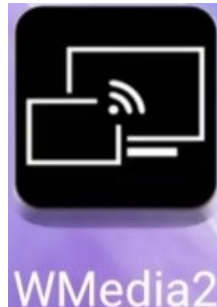
(Note: iOS devices must first be connected to the Wi-Fi of "WirelessMedia").

Please open the control center on the desktop with the appropriate gesture. Click the airplay icon  on your Apple device and select the receiver device WMS to connect. Now you could mirror your screen content wireless through the base unit to the main screen.

8.3 Transmit Android device wireless

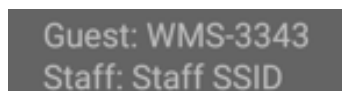
8.3.1 "WirelessMedia" Apk for Android

1. Open the "WirelessMedia" application.

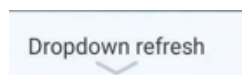


Note: permit access of photos and pictures, when installing.

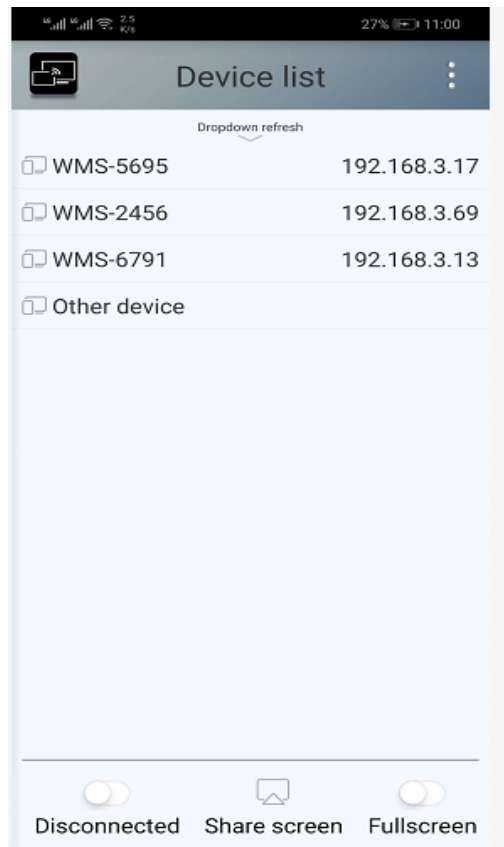
2. Connect your mobile device to one of the displayed Wi-Fi networks.



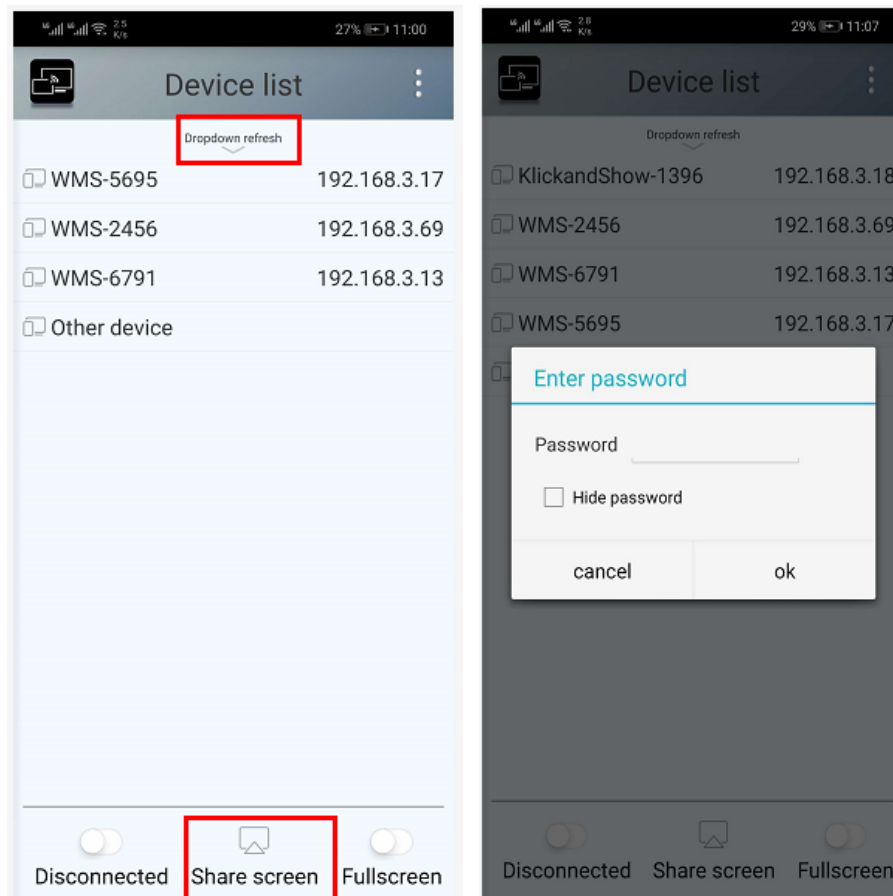
3. The main interface of "WirelessMedia2" is shown as below. Click the device list refresh button



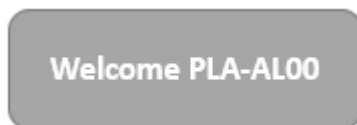
, which is highlighted in red circles as shown below:



4. Select the base unit you want to connect, enter password and mirror.

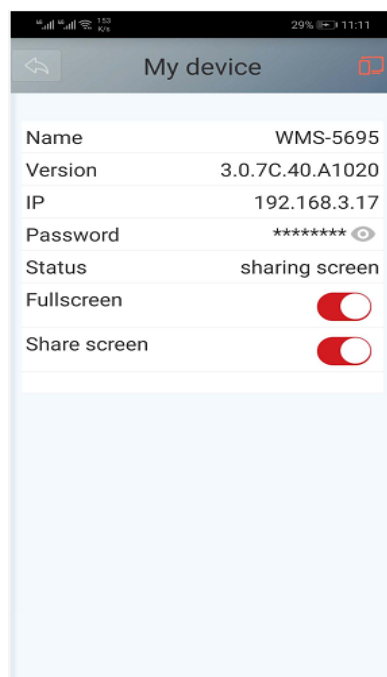


- When sharing to main screen, it shows OSD "Welcome ***" on the home page. For example, if we connect it by a HUAWEI-PLA-AL00, it shows a "Welcome HUAWEI-PLA-AL00" on screen, as shown below.



- Now you can mirror your desktop of your mobile.
- Click again the button "Share Screen" to stop mirroring.

You could click "my device" to check the device status and firmware version.



4. WIFI Recommendation Setting

9.1 Check the WIFI config on base unit

Please use a WIFI analysis software to place it at the same place as the base unit, to check the WIFI environment, in order to select the clean or unused WIFI frequency between 2.4GHz and 5Hz, and the WIFI channel as below.

2.4GHz: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

5GHz: 36, 40, 44, 48, 149, 153, 157, 161

9.2 Check the WIFI RSSI on dongle or Mobiles

Please use a WIFI analysis software to place it at the same place as the dongle or mobiles, to measure the WIFI RSSI (Received Signal Strength Indicator). We recommend the RSSI shall be above -70dB to be good enough to keep a stable signal transmission. If not, please try to take the following measures, as in the problem shooting---
Bad wireless connection congestion.

5. Problem Shooting

Here you can find some fundamental problems and possible causes, which can be happen during the use of "WirelessMedia". Find out the problem you've encountered in the table below and apply the solution.

Problem	Cause	Solution
Use "WirelessMedia for Android" application in Android device or Airplay on IOS device, and it can't find base unit device.	WIFI password of base unit changed when android or IOS device is connected to the WIFI of base unit.	Reconnect the mobile by entering password showed on home screen.
The image quality on the main display screen is not good.	The quality or length of the cable between the Base Unit and the display or the connection between these two.	<ul style="list-style-type: none">● Replace the cable● Use another cable.● Check the cable to be fasten properly.
	Improper resolution for the main screen. WMB1 could output 3840x2160_60Hz, 3840x2160_50Hz 3840x2160_30Hz, 1920x1080_60Hz, 1920x1080_50Hz, 1920x1080_30Hz	<ul style="list-style-type: none">● Change the resolution on the Setting configuration. And match it to the native resolution of the main screen. See chapter 7.
Bad wireless connection. The connection between the transmitter and the base unit is not stable.	Wi-Fi problems. <ul style="list-style-type: none">● Interference in the radio channel.● Overload in the radio channel. "WirelessMedia" does not automatically jump to other channels when there are changes in the RF environment.	<ul style="list-style-type: none">● Use a Wi-Fi scanner to find a free wireless frequency and channel and select it via the setting configuration.● Regularly check the RF environment if there are frequently changes in Wi-Fi networks in your environment.
	Low signal strength: <ul style="list-style-type: none">● Metal cabinets, walls,	<ul style="list-style-type: none">● Put the base unit closer to the main screen.

	<p>construction elements, ...can cause reflections deteriorating the wireless signal.</p> <ul style="list-style-type: none"> ● Obstacles between dongles and Base unit cause lowering of the wireless strength and quality. 	<ul style="list-style-type: none"> ● Change the orientation of the antennas at the rear panel of base unit to the transmitter direction. ● Remove or limit as much as possible all obstructions between the transmitters and base unit. ● Avoid to place the Base-unit in (metal) cabinets, suspended ceilings, under tables or in adjoining rooms.
Can't get the "WirelessMedia" run when plug the transmitter to lap-top	<ul style="list-style-type: none"> ● When you are using "WirelessMedia" for the first time on your laptop or for guests, you have to copy the Launcher program "WirelessMedia windows. Exe" or "WirelessMedia macOS. app" for first on your Laptop /PC. Run this Starter-program. You can run the Starter App without Admin-rights. 	<p>There are 2 possibilities to load the Launcher program, see chapter 7.4.</p> <p>Best is: download the App via LAN or Wi-Fi of Base-unit. When the Launcher program is preinstalled one time, "WirelessMedia" is ready to use later immediately.</p>
	<ul style="list-style-type: none"> ● Bad connection at USB port on the lap-top 	<ul style="list-style-type: none"> ● Reconnect to the USB port ● Try another USB port ● Reboot the lap-top
	<ul style="list-style-type: none"> ● Some types of USB devices might be blocked as the company policy. ● USB port setting on the lap-top might limit the usage of high power USB device when on battery power. 	<p>If possible, change the USB port policy on the lap-top</p>
Low video performance (sharpness, audio and video dropouts, video stream is jerking, ...)	<ul style="list-style-type: none"> ● The media-player is not ideal. ● The video quality also depends on the computing power of the PC / laptop and the interaction and CPU load with other running software applications. ● A laptop in battery mode can be switched to reduced computer power, to save 	<ul style="list-style-type: none"> ● Use another media-player (VLC player...), another browser. ● Update the software of your Video-player to the latest version. ● Reduce the CPU usage of other software applications. ● Lower the screen resolution of the Laptop.

	energy. The transmission of HD video requires a certain amount of CPU power to guarantee the optimum quality of the transmission.	<ul style="list-style-type: none"> ● Update driver of graphic-card. ● End low power mode at laptop.
Video is not shown on screen	The content use HDCP	<ul style="list-style-type: none"> ● WirelessMedia input can't support showing HDCP source. If possible, connect the source device to local HDMI input at base unit.
	The display cable (HDMI) is not correctly connected.	<ul style="list-style-type: none"> ● Insert the display cable to the display and the Base-unit.
	The displays is switched off.	<ul style="list-style-type: none"> ● Switch on the display.
	The Base-unit is in standby mode, "Power-LED" is flashing at Base unit. Power-supply is missed.	<ul style="list-style-type: none"> ● Power off and on again or insert a dongle into laptop.
When using window 7 the following message about the Window Aero color scheme appears "Windows has detected your computer's performance is slow. This could because these are not enough resources to run the windows Aero color scheme. To improve... "	WirelessMedia uses resource from the GPU. In combination with other programs which do so, Window 7 sometimes shows this message suggesting to disable Aero to improve the performance of lap-top.	<ul style="list-style-type: none"> ● It's safe to ignore this message and choose "Keep the current color scheme."
Your content is removed from the display and the LEDs on the button are blinking	Connection to the Base Unit is lost.	WirelessMedia tries to restore the connection automatically. If it fails, the LEDs on the button start blinking red. Unplug the button from your lap-top and try a new button.
Nothing is shown on the displays at all	The displays are switched off.	Switch on the display
	The display cable is not correctly connected	Insect the display cable to the display and the Base Unit
	The Base Unit is in standby mode	Briefly push the standby button on the Base Unit or power off and on again the Base Unit.
No LAN connection with the Base Unit	Wrong IP address	IP address is not within LAN range
		DHCP is not enabled.
No Wi-Fi connection between mobile device with Base Unit	Wrong Wi-Fi frequency	Check mobile device to select the correct 2.4GHz or 5GHz
	Wrong SSID and password	Enter the correct SSID

No audio when transmit local file to Base Unit	Unsupportive audio format, including Dolby MS11, DDCO DTSLBR, DTSE, DTSNeoUltra, SRS-THEATERSOUND, DTS_StudioSound3D, DTS_HD,	If possible, reformat it to the other audio format, like DD, DD+, HE-AAC, DTS DMP, WMA, DRA, COOK
There is no sound at main-display.	No connected audio device.	Make sure, the audio is turned on.
	Volume is set to OFF.	Adjust level in menu configuration WirelessMedia console in on webserver settings.
	The volume level is set too low in the options of the "WirelessMedia" Launcher program on PC.	Adjust the volume in the "WirelessMedia" Launcher program on PC.
	Audio signal may be muted.	Click with right-mouse button at speaker icon In task-bar and switch on.
	The volume level is set too low.	Adjust the volume level at Options in menu of WirelessMedia.
	Audio is muted in mixer of volume in taskbar.	Right-mouse click at speaker icon in taskbar, open mixer and unmute "WirelessMedia" or "Video Playback".
	The software of used Video-player is not actual	Update Video-player. Try another player.
	An active virus scanner can block the Audio.	Check the filter-settings in Virusscanner. De-activate the player for a check.
There is no sound with MacBook.	Problem of sound-flower App, which is integrated in driver WirelessMedia.app.	<ul style="list-style-type: none"> ● You need Admin-password ● Go to the macOS System Preferences and select the "Security & Privacy" tab. Find the "allow to run/install the sound-flower" there click on "Allow" next to "Matt Ingels", in order to allow this sound-flower to install on the Mac Book. ● Run the WirelessMedia.app again, it'll auto-install the sound-flower to the MacBook.
There is no sound via AirPlay.	The volume is set too low, on the mobile device.	Increase the volume on the mobile device.

There is no sound at main-screen, when mirroring a video by the App "WirelessMedia for Android" .	Due to the limit of the Android system, Android doesn't provide an interface to capture the audio. In this case, there is no sound when mirroring the video.	Use dongle or Apple Airplay to do mirroring when necessary.
Can't update firmware of the base unit.	Flash disk format is NTFS	Please re-format the flash disk to be FAT format to update it.
Can't work airplay with Macbook/Iphone/iPad.	Operation System Requirement Mac OS 10.9 IOS 8.0 and later (WirelessMedia app)	<ul style="list-style-type: none"> ● To use AirPlay, you must connect the iOS device to the Wi-Fi of WireleeMedia and enable the AirPlay feature in the Control Center. ● Update the iOS device to a newer operating system.
Poor Video-quality with AirPlay .	There are 2 states for AirPlay: a.) Mirroring: 1: 1 copy of the screen b.) Streaming: Videos (Internet, Youtube); the image will not be displayed on the iOS device. => picture is jerky	Reduce "Quality! In settings of Youtube, for example from "Automatic" to 720p.
Can't work with Android device?	Operation System Requirement Android 2.3 and later (WirelessMedia app)	Update to the later OS

FCC Warning:

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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 or more 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.

RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement.
The device can be used in portable exposure condition without restriction.

2AWJK-WMT-C35

*RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

SAR Statement:

SAR tests are conducted using standard operating positions according standards with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This model product has been tested and meets the RF exposure guidelines with the test distance 0mm for body worn. The highest SAR_{1g} value is 0.603 W/Kg for body worn. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements, and should be avoided

2AWJK-WMT-H35

*RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

SAR Statement:

SAR tests are conducted using standard operating positions according standards with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This model product has been tested and meets the RF exposure guidelines with the test distance 0mm for body worn. The highest SAR_{1g} value is 0.386 W/Kg for body worn. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements, and should be avoided