



Wireless AV Content Sharing & BYOD collaboration System (Quad Viewer)

Receiver: Prestel BYOD-10, BYOD-12, BYOD-14HC Transmitter: Prestel WB-1H, WB-2H(HDMI dongle), Prestel WB-1C, WB-2C(Type C dongle)



USER MANUAL

Prestel BYOD-14HC is a wireless presentation series, aiming to replace the legacy Pro-AV switcher with not only the least cabling and cost, but also more powerful presentation and collaboration capabilities, it allows people to bring their own devices to share content anywhere they sit and also easily collaborate with others without any public contact, especially under post-pandemic environment, it helps conference or training went on safely as normal, with the least contact and required social distance.

Feature List:

Prestel BYOD-14HC

- Pure wireless presentation experience, bring your own device, no cable messy.
- Wireless content input up to 1080P, HDMI 2.0 output
- Support native wireless mirroring protocols like Airplay, Miracast, Chromecast
- Support plug-n-play HDMI/Type-C/U disk dongles for wireless presentation
- Support Android, MAC and Windows APP for wireless presentation
- Support 4 split screen view
- Support wireless touch back on interactive whiteboard/touch screen
- Best-in-class data security with dual network and high standard encryption
- PoE supported, saving PSU when connecting with PoE ethernet switch
- Support moderator mode with preview function.
- Support whiteboard and annotation.
- Customizable home screen page.
- Central management platform available.

Prestel WB-1H, WB-2H(HDMI dongle), Prestel WB-1C, WB-2C(Type C dongle)

- Support VESA PC resolution, auto-detecting.
- Can wireless transmit PC's mirror or extended desktop to base unit.
- Quick "Show-me" button to selection switcher the active signal of PC, less than 1s.
- "Show-me" button can independently step in/out the source of PC.
- Dual color LED, green indicates active source signal, red indicates power/link. (Hardware support on HDMI dongle and Type C dongle)

Catalogue

1.	Overvi	Overview:		
2.	Specif	Specification:		
3.	Panel	Layout	8	
	3.1	Hardware Interface	9	
	3.1.1	Prestel BYOD-14HC Front Panel	9	
	3.1.2	Prestel BYOD-14HC Rear Panel	11	
	3.1.3	Factory Reset	12	
	3.1.4	Dongle Front Panel	14	
	3.2	Software Interface	17	
	3.2.1	Home Screen	17	
4.	Installa	ation	19	
	4.1	Installation methods for the Base unit	19	
	4.2	Wiring Diagram	21	
	4.3	Power Connection	21	
	4.4	Video Connection	22	
	4.5	Audio Connection	22	
	4.6	LAN connection	23	
	4.7	Usage of USB device	24	
5.	Quick-	-to-Start	26	
	5.1	Mobile device: Wireless Connection	26	
	5.1.1 Enable portable hotspot:		27	
	5.1.2	Enable LAN connection:	27	
	5.2	Pairing transmitter with base unit	28	
	5.3	Mirroring		
	5.3.1	Microsoft Windows PC/Laptop with Dongle		
	5.3.2	Microsoft Windows PC/Laptop with application		
	5.3.3	Operations for icrosoft Windows PC / Laptop – Extended Screen		
	5.3.4	MAC OS PC/Laptop with Dongle		
	5.3.5	MAC OS PC/Laptop with application	41	
	5.3.6	Operations for Apple MacOS, MacBook – Extended Screen	43	
			3 / 110	

5	5.3.7	Quad view mirroring:	45
5	5.3.8	Mobiles Devices	45
5	5.3.9	Miracast on Android Devices and WIN10 PC/Laptop	
5	5.3.10	Chromecast on PC	52
5.4		Preview Window	54
5.5		Whiteboard & Annotation	56
5	5.5.1	Whiteboard	57
5	5.5.2	Annotation	59
6. V	Neb Se	etting Management Configuration	61
6.1		Network settings	64
6	5.1.1	Wireless network	64
6	5.1.2	Ethernet	74
6	5.1.3	Auto change password	75
6.2		Display & Audio	76
6	5.2.1 H	DMI	76
6	5.2.2 A	udio	78
6	5.2.3	Airplay screen quality	79
6	5.2.4	Screen display ID	
6	5.2.5	Home Screen background image	
6.3		Moderator control	82
6	5.3.1 M	Ioderator Control	82
i.	•	Screen Layout	
6.4		System settings	85
6	5.4.1 Bi	uttons:	85
6	5.4.2	Date & Time	86
6	5.4.3	Auto standby	87
6	5.4.4	Language	
6	5.4.5	Reset	
6	5.4.6	Configuration File	90
6	5.4.7	Series Port Setting	90
6	5.4.8	Telnet Switch	
6.5		Security Settings	92
			4 / 110

6.	5.1	Security level	92
6.	5.2	Login Password	93
6.	5.3	Connection password	93
6.6		Firmware upgrade	94
6.	6.1 Fi	rmware Update	94
6.	6.2 A	utomatic Upgrading	94
6.7		Other settings	95
6.7.1	Αι	ito create launcher	95
6.	7.2	Clear history after meeting	95
6.8		About device	96
7. U	odatii	ng WirelessMedia	97
7.1	Che	ck current firmware information	97
7.2	Upg	rading firmware of base unit:	100
7.3		Upgrading and Pairing of Dongle:	101
7.4		Upgrading Launcher:	102
7.5	Clea	an left files of older versions of Launcher program in Lap-top	104
8. W	IFI Re	ecommendation Setting	105
8.1		Check the WIFI config on base unit	105
8.2		Check the WIFI RSSI on dongle or Mobiles	105
9. Pr	obler	m Shooting	106

1. Overview:

WirelessMedia Set

WirelessMedia makes connecting or participate in a meeting by a most simple way, touching a button. It also allows the other to join in the meeting more actively. The result is to make the meeting more efficient and productive. A typical WirelessMedia contains one Base Unit BYOD-14HC and two Transmitters e.g. WB-1H, WB-2H(HDMI dongle), WB-1C, WB-2C(Type C dongle) for choices.

Wirelessmedia Set Components

A typical WirelessMedia Set includes two Buttons, one Base Unit, "WMedia2" for Android" APK and Airplay for IOS". Depending on the application or size of meeting room, user could purchase more kinds of buttons, e.g. USB dongle/ HDMI dongle/ USB Type C dongle if they need.



ID	Name	Description
1	Base Unit	Host unit
2	Transmitters	For PC/Lap-top to share the desktop/extended desktop.
3	"WMedia2" App for Android	For smart android devices to share the screen.
4	Airplay for IOS	For smart IOS devices to share the screen.

Accessories List

ID	Name	Description
		2 pcs of antenna are included in the box. To avoid
1	Antenna	damage, they are not pre-mounted. The antenna
		can rotate for a better wireless connection.
	Power adapter	International plug inter-changeable power
2		adapter, of which the plugs includes US, Europe,
		UK, Australia standard.
2		1 piece phoenix terminal for connecting the RS232
3	Phoenix terminal	port of the rear panel.

2. Specification:

PVOD 144C Specification	
BYOD-14HC Specification	
HDMI output	1x HDMI 19-pin female connector
Video Output Resolution	3840x2160@60Hz,3840x2160@30Hz,
	1920x1080@60Hz
Format Compliance	HDMI1.4/HDMI2.0
	1080P @ <60Hz Airplay for IOS devices
Video Capacity:	1080P @ <60Hz "WirelessMedia" app
	1080P @ <60Hz for all show-me button
HDCP	HDCP1.4/HDCP2.2
Analog Audio Output	1x 3.5mm PC audio female connectors
LAN port	RJ45 x2: 1000Mbps x1, 100Mbps x1
USB interface	USB3.0 x1, USB 2.0 x1, Type-C x1
Audio Input	AirPlay, Windows/MAC, WMH
Control connectors	3.5mm Phoenix terminal/ RS232 interface
Number of window simultaneous on	At 14 (A main windows 14 thumbhail windows)
screen	\geq 4+14 (4 main windows+14 thumbnail windows)
Number of simultaneous	> 10
connections	≥16
Data rate in wireless	Up to 1200Mbps
Video Playback Frame Rate	20-60 FPS
Latency	< 100ms, Min 20ms
Wireless transmission protocol	WIFI IEEE 802.11 a/g/n/ac
Frequency band	2.4 GHz & 5 GHz
WIFI Antenna	MIMO 2x2
	165mm x 95mm x 24.5mm (including antenna:
Dimension (W x D x H)	165mm x 125mm x 24.5 mm)
Weight	0.4lbs (200g)
Temperature	-4° ~ +140° F (-20° ~ +60° C)
Humidity (Storage / Operating)	20%-90% (non-condensing)
DC Power	12V / POE
POE standard	IEEE802.3af
Power Consumption	10W(MAX)

3. Panel Layout

About this chapter

The installation chapter gives an overview of the interface of WirelessMedia.

Overview

- Hardware Interface
 - BYOD-14HC Front Panel
 - BYOD-14HC Rear Panel
 - WB-1H, WB-2H, WB-1C, WB-2C Front panel
- Software Interface
 - Home Screen

3.1 Hardware Interface

3.1.1 BYOD-14HC Front Panel



ID	Name	Description
1	Front USB connector	USB port, for dongle pairing, mouse control, USB touch screen etc.
2	Front Type-C connector	Type-C port, for dongle pairing.

3	Power Button	Turn on or off the device.
4	Back-lit LED indicator	Initializing indicates RED, power on indicates flashing GREEN, "Ready to share" indicates static GREEN, "Sharing" indicates static cyan.

USB port

- The USB port is used to update the software of the BYOD-14HC.
- The USB port is used for pairing the dongle and base unit, when the transmitter is plugged-in.
- The USB port is used for connecting a mouse to create/upgrade Launcher by clicking **Download** button, hide SSID, PASS, Wifi IP and Lan IP by clicking **Info**, check **Security level button** and control PC source device, when a PC desktop is mirroring to the screen by plugging in the dongle.
- The USB port is used for connecting a USB-based touch screen to create/upgrade Launcher by clicking **Download** button, hide SSID, PASS, Wifi IP and Lan IP by clicking **Info**, check **Security level button** and control PC source device, when a PC desktop is mirroring to the screen by plugging in the dongle.
- The USB port is used for creating or upgrading Launcher by clicking **Download** button, when a USB stick is plugged in.

Type-C port

The Type-C port is used for pairing USB Type C dongle with base unit.

Mechanical fixture points.

The mechanical fixture points are located at the bottom of the base unit.

3.1.2 BYOD-10/14 Rear Panel



ID	Name	Description
1	Line audio output	2 channel analog audio output, Connect a 3.5mm mini-jack PC connector from this jack to the Line in jack of an audio system.
2	Rear USB3.0 connector	USB port, for USB dongle pairing, mouse control, USB touch screen etc.
3	Reset	Reset button to restore to the factory default setting.
4	HDMI output	Connect an HDMI cable from this port to an HD or 4K/HDMI2.0 display.
5	RS-232	Connect an RS-232 cable from this port to an RS-232 device. (Note: No RS-232 port in model BYOD-10 hardware.)
6	LAN Ethernet port 1	100Mbps, Connect an Ethernet cable between this jack and a LAN to connect BYOD-14HC to
7	LAN Ethernet port 2	1000Mbps, Connect an LAN Ethernet cable between this jack and a LAN to connect BYOD-14HC to LAN. Support POE. (Note: No LAN Port 2 in model BYOD-10 hardware.)
8	DC Power socket	Connect the included power adapter to this socket, and connect the plug to an available electrical outlet.
9	Antenna fixture points	Screw up the included two antennas to these two ports.

Note: LAN port 2 and RS-232 port is only for BYOD-12&BYOD-14HC in hardware.

USB port

- The USB port is used to update the software of the BYOD-14HC
- The USB port is used for pairing the dongle and base unit, when the transmitter is plugged-in.
- The USB port is used for connecting a mouse to create/upgrade Launcher by clicking **Download** button, hide SSID, PASS, Wifi IP and Lan IP by clicking **Info**, check **Security level button** and control PC source device, when a PC desktop is mirroring to the screen by plugging in the dongle.
- The USB port is used for connecting a USB-based touch screen to create/upgrade Launcher by clicking
 Download button, hide SSID, PASS, Wifi IP and Lan IP by clicking Info, check Security level button and control PC source device, when a PC desktop is mirroring to the screen by plugging in the dongle.
- The USB port is used for creating or upgrading Launcher by clicking **Download** button, when a USB stick is plugged in.

3.1.3 Factory Reset

- Start up the Base unit.
- When the *Home Screen* is shown up, press the reset button at the rear panel of base unit. Press this button with a pointed object, e.g. an unbent paper clip until the *"Factory Reset" page* is shown up as below, for at least 2 seconds.
- The Base unit will reboot after 3 seconds to be default configuration.

• If you do not have a picture, press and hold the reset button until the red LED in the top panel will lit, to execute the reset.

All previous settings will be lost and you will need to do the set-up once more.

Factory reset	t	
	Factory reset	
	Cancel	

Default Configuration

- Ethernet:
 - Proxy: None
 - DHCP: Enable
- Wireless network:
 - Frequency: 5GHZ
 - Channel: Auto
 - Auto change Wi-Fi hotspot password: 5minute
- Display & Audio
 - HDMI resolution: Auto
 - HDMI CEC:
 - Device auto power off: ON
 - Base unit auto power on: OFF
 - Audio output: Jack&HDMI
 - Airplay screen quality: High
 - show device name and password when mirroring: OFF
 - show PCs user name when mirroring: ON
- Moderator Control
 - Add a sub-window bar to enable previewing the connected devices: ON
 - Real time preview: ON
- System settings
 - Date & time: Automatic date & time: use network-provided time
 - Auto Standby: Never
 - Language: English
- Security Settings
 - Security Level: Security level 1

- Connection Password: 4-digits password beginning with 0000
- Change admin password: admin(default)
- Other settings
 - Auto create launcher: Disabled
 - Clear history after meeting: Always

3.1.4 Dongle Front Panel

WB-1C, WB-2C, WB-1H, WB-2H are dongles, which is used for toggling the mirroring from personal PC or MAC desktop on the main screen.

LED ring indicator behavior

- When LED indicator is static green, it's ready to mirror your PC desktop on the main screen.
- When LED indicator is static red, 1) it's mirroring your PC desktop on the screen, 2) pairing is done. You can now unplug the Button from the base unit.
- When LED indicator is blinking Green, it indicates 1) the button is plugged in the laptop and initializing or waiting for user to start the WirelessMedia application, 2) pairing/software upgrading of the button in the Base Unit is in progress.
- When LED indicator is Off (no light), it indicates 1) the button is not plugged in the PC/Lap-top; 2) the button is defective; 3) the USB port or computer might be defective.



ID	Name	Description
1	HDMI connector	Using HDMI connector of the button can be plugged into a PC/Laptop for sharing your screen.
2	USB connector	Supply power, or plug into the base unit for pairing the Button to the Base Unit or upgrade the dongle.
3	Touching Button	Touch the sensor button to start displaying the content of the PC/Lap-top's screen on the main screen. Touch the button during the meeting will toggle the sharing of the screen.
4	LED ring indicator	Indicates the status of the button.

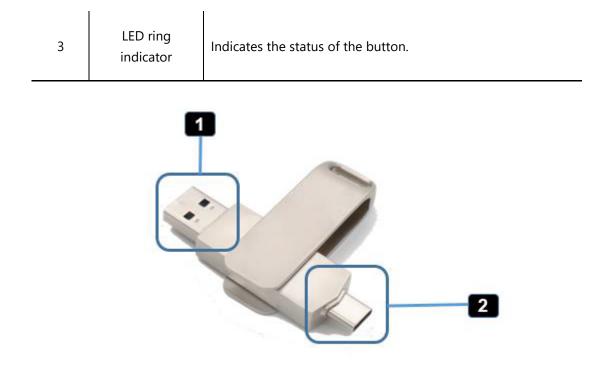


Note: WB-1C, WB-2C is full function type-C interface with DP Altmode inside, which

supports Audio and video transmission. Thus PC's type C connector also requires full

function type C connector for mirroring screen.

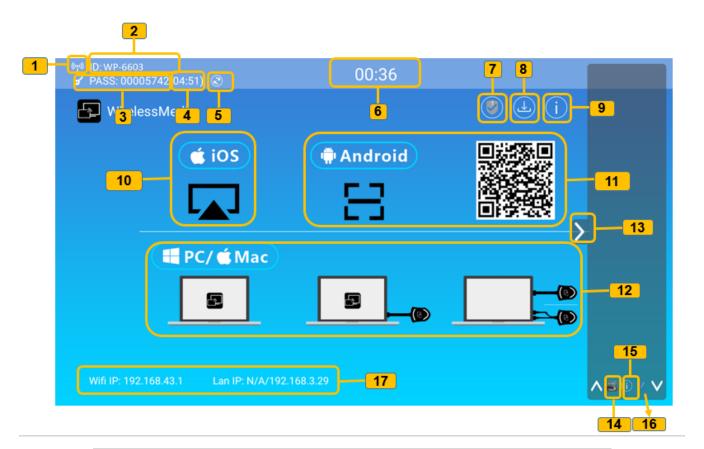
ID	Name	Description
1	Type C (DP) connector	Using Type C (DP) connector of the button can be plugged into a PC/Laptop for sharing your screen.
2	Touching Button	Touch the sensor button to start displaying the content of the PC/Lap-top's screen on the main screen. Touch the button during the meeting will toggle the sharing of the screen.

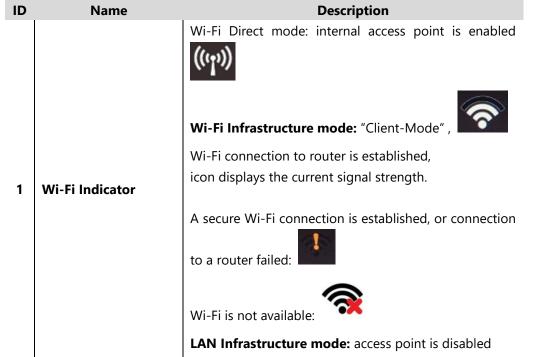


ID	Name	Description
1	USB connector	Using USB connector of the dongle can be plugged into a PC/Laptop for sharing your screen.
2	Type C connector	Using Type C connector of the dongle can be plugged into a PC/Laptop for sharing your screen.

3.2 Software Interface

3.2.1 Home Screen





2	ID	Wi-Fi name or device name of the Base-unit access	
		point. Wi-Fi password of base unit.	
3	PASS		
4	Password-timer	only displayed, when timer is active;	
	Refresh Wi-Fi-	time until the password is changed automatically. Generate new password manually for securing your Wi-	
5	password	Fi network.	
6	TIME	Show time, if LAN has access to a time server; even after disconnecting the LAN connection, the time is displayed until the device has been disconnected from power.	
7	Security level	Security level 1-3, display ONLY; the security features of the displayed level are displayed in detail by clicking on the icon; the settings can only be changed by administrator in the webserver console setting menu.	
8	Download Button	Creating & upgrading Launcher "WirelessMedia.exe" for Windows, MAC to USB stick.	
9	Info	Show status-bar (1) – (6) in Home screen showing/hiding	
10	IOS Quick Start	Steps to instruct how to transmit smart mobile devices either powered by IOS, onto the main screen.	
11 "WirelessMedia2" App from GooglePlay Store. App from Store App from Store		Scan QR-code for Android device and download the	
		App from GooglePlay Store.	
		Steps to instruct how to transmit PC/Lap-top onto the	
12	Windows / MacOS	main screen. First-time users must first install the starter	
	Quick Start	program from the web page or from the USB stick one time.	
	Preview function of	Preview function of the screen contents of all	
	the screen contents	connected transmitters and mobile devices;	
	of the participants	White Board and Annotation function.	
13	with transmitter and		
15	mobile devices;		
	White Board&		
	Annotation function		
	icon		
14	White Board icon	Whiteboard function	
15	Info	Click to show ID and password when mirroring.	
16	Annotation	Annotation function.	
17	Wi-Fi IP	• Wi-Fi IP: address of base unit in wireless LAN	

4. Installation

The installation chapter gives an overview of the different ways to install and connect WirelessMedia Base Unit.

Overview:

- Installation methods for the Base unit
- Table mounting
- Wall mounting
- Recommendations about antenna placement and orientation
- BYOD-14HC Power Connection
- BYOD-14HC Video Connection
- BYOD-14HC Audio connection
- BYOD-14HC LAN connection
- About USB device connection
- Wiring Diagram

4.1 Installation methods for the Base unit

Introduction to the installation methods:

The Base unit can be installed in different ways in a meeting room.

- Table mount
- Wall mount

The articulated antennas are removable. They can rotate for better wireless connection.

Attention: For optimal performance, install the Base unit close to the display and avoid obstacles between the Base unit and the Transmitters.

Necessary tools

- A drill (type of drill depends on the type of wall)
- The mounting screws (mounting screws not included in the package)

Necessary parts

• 2 mounting screws (Screw head diameter of screws shall be within 6-8mm)

How to install

- Drill two holes in the wall as indicated on the drawing. Horizontal distance: 177 mm ± 0.15
- 2. At the bottom of Base Unit, turn in 2 flat screws into 2 holes of its smallest diameter to be fasten enough.

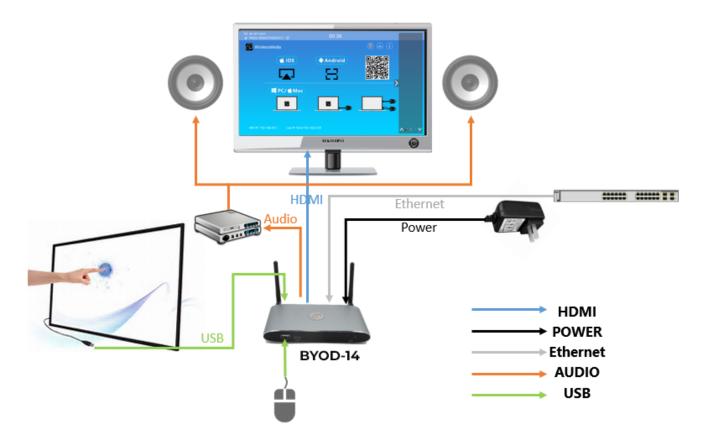
Note: Mounting screws are not included in the WirelessMedia box . The type of screws depends on the type of wall (stone, wood, plasterboard, ...) you are mounting the Base Unit to. Make sure the head of the screw is not larger than the hole in the bottom of base unit.

3. Place the BYOD-14HC on the wall and fixate the base unit with the 2 screws.

Antenna placement rules

- The antennas should be oriented vertically, so perpendicular to the ceiling and parallel to the walls.
- The antennas should be installed far enough (at least 50cm/1.6ft) from metallic surfaces to avoid unwanted reflections and far enough (at least 1m/3.3ft) from other radio equipment that operates in the same frequency range, e.g. other Wi-Fi access points, cordless telephone, microwave ovens,.... It is also best to install antennas at least 15 cm (6 inches) from concrete walls.
- The most favorable situation is a direct line of sight between antennas and Buttons. Any obstruction will cause the signal to follow a longer propagation path, which can result in performance degradation.
- Due to the particular radio pattern of the dipole antennas, the antennas should not be placed just above potential positions of WirelessMedia users. As a result, the advised position for the antennas is at the side of the meeting room.

4.2 Wiring Diagram

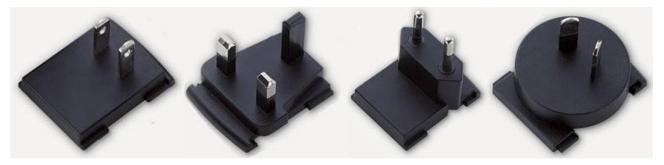


4.3 Power Connection

The Base unit can be powered by the external universal power adapter.

How to connect the external power adapter

- 1. Plug the power connector to the power adapter to the power input connector of the Base Unit
- 2. Choose the appropriate power plug (US, UK, EU or AU) to be installed on the power adapter,
- 3. Connect the power cable plug into the wall outlet.



Note: Once the base unit is powered, it starts up. From now on please use the POWER button with Status LED on front of Base-unit to switch ON or OFF.

Power over Ethernet

If the LAN Ethernet switcher support POE (Power over Ethernet), it could power up the Base-unit instead of using the external power adapter. (BYOD-14HC LAN2 Port is support POE.)

4.4 Video Connection

- 1. Connect the **HDMI Output** of base unit to a 4K or Full-HD display by a HDMI cable.
- 2. Connect the power adapter to the base unit **DC power socket** and connect the other side plug to an available electrical outlet and switch the base unit on.
- 3. After started, the system show the **home page**, as shown below.



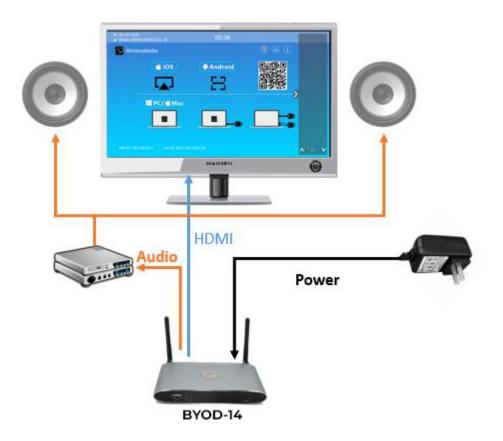
4.5 Audio Connection

WirelessMedia transmitter can transmit the audio output of the PC/Lap-top, re-direct and send to the Base Unit together with the video signal. The audio will be output at line levels from mini jack socket 3.5mm connector and via the HDMI output connectors simultaneously.

It's up to the user to decide whether or not to send the audio signal together with the video signal.

How to connect separate audio

- 1. Connect an audio cable with mini jack socket 3.5mm connector into the audio of the Base Unit
- 2. Connect the other side to the meeting room's sound system.



Sound is not sent out

WirelessMedia button will keep capturing and send the audio of PC/Lap-top, since PC/Lap is successfully mirroring desktop to the main screen.

- 1. Please be sure the button is static green and the PC/Lap-top is sharing on the screen
- 2. Check Setting configuration, to adjust the Volume set in WirelessMedia setting tab.

PC/Lap Sound

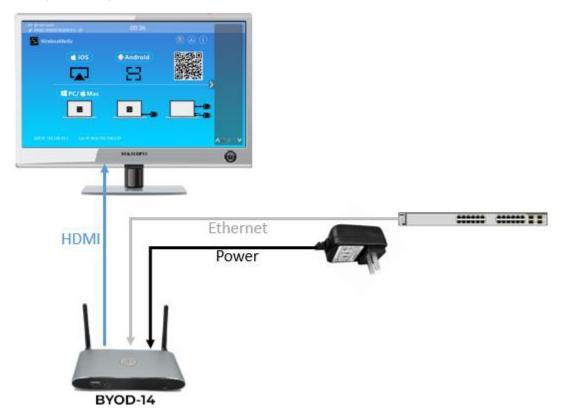
As default set, WirelessMedia will mute the internal speaker of PC/Lap and route the audio to the base unit, after PC/Lap is successfully mirroring desktop to the main screen, in order to avoid the repeated audio. When click the button to stop sharing, local loudspeaker will return to previous status, you could adjust the volume on your PC/Lap.

Note: If you want to keep the internal speaker of PC/Lap still while route the audio to the base unit, please click the audio mute icon in the status bar to turn on the internal speaker.

4.6 LAN connection

The Base Unit can be connected to a local network or directly to a PC/lap-top. For normal operation, a LAN connection is not necessary. When needed, it's suggested to connect the BYOD-14HC to the Internet.

- 1. Connect a network cable with RJ-45 connector into the LAN port of Base Unit.
- 2. Connect the other side to LAN.
- 3. If the LAN Ethernet switcher support POE (Power over Ethernet), it could power up the BYOD-14HC than using the external power adapter.

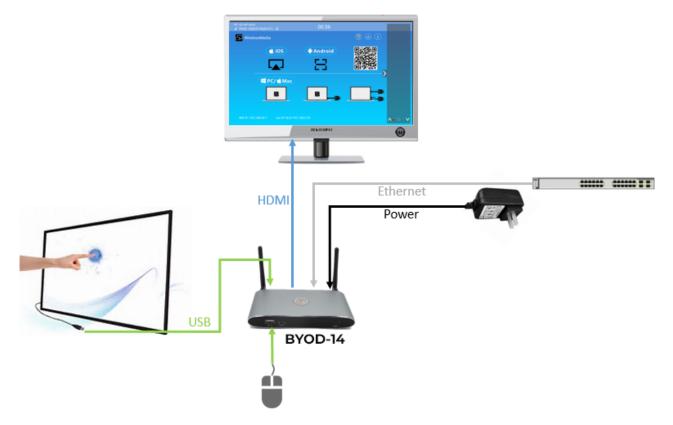


The LAN connection can be used for:

- Network integration of Base Unit in guest or company network.
- Telnet control the Base Unit.
- Maintenance purpose.
- Over-The-Air -Update (OTA) of firmware of Base-unit.

4.7 Usage of USB device

Please use a USB Mouse or Touchscreen:



- 1. To configure the Security level check button, DOWNLOAD BUTTON, INFO.
- 2. To control the sharing PC/Lap-top.
- 3. To activate system upgrading

4. For white board or annotation during a presentation, WirelessMedia transmits Video, Audio and the USB-HID function for mouse-control and click-function of a touchscreen. Connect touch-interface of your screen to the USB-port on your laptop or PC.

USB control

USB mouse for configuration menu

- Single click to select.
- Right-click to back to the Home Page.

Touch screen

- Click to select.
- Long press to open the contextual menus, as double-click or click the right button of a USB mouse.

5. Quick-to-Start

5.1 Mobile device: Wireless Connection

1. Download the application namely "WirelessMedia2" (for example scan QR-Code in Home screen) in Android Google Play market for Android mobile device.

୩୩ ID: WP-6603 ଙ PASS: 00005742(04:51) 📀	00:36		
WirelessMedia		(i) 😓 🔘	
(ios	Android		
	E		
📕 PC/ 🖆 Mac			
Wifi IP: 192.168.43.1 Lan IP: N/A/192	2.168.3.29		
			∧≝0 / ∨

- 2. For IOS devices, use Airplay to mirror the desktop.
- 3. WirelessMedia provides two way to discover the BYOD-14HC for mobile devices.
 - a) Portable hotspot, to connect the hotspot to connect the BYOD-14HC.
 - b) LAN connection, to connect the BYOD-14HC and mobile both in LAN network, to discover and connect to BYOD-14HC.

After Factory reset, WirelessMedia starts in standard configuration "Wireless Direct Mode" ("Linked Single Network"), where the base unit creates its own wireless access point, to which all the transmitters connect. This is typical for quick setup, temporarily installations or for small business meetings with a small number of meeting rooms.

The Wi-Fi icon for "WiFi Direct Mode" appears in the top status bar of the Home screen. The SSIDs for

these hotspots appear in the Start screen of WirelessMedia:

Guests and staff have access to the internet when LAN is enabled.

5.1.1 Enable portable hotspot:



Check the SSID and PASS (Password) are shown on the Homepage, as shown below.

5.1.2 Enable LAN connection:

Be sure the BYOD-14HC is connected to the Network. When *Local IP* shows an active IP address, such like 192.168.3.32, it indicates BYOD-14HC is successfully connected to the LAN and get an appointed IP



Note: When it shows "N/A", means the BYOD-14HC is not connected to the LAN (Local Area Network) by CAT cable 27 / 110

or it failed to get an available IP address by the corporation router.

Please refer to the LAN-settings in Ethernet, as below.

Default password for entering the Main menu on webserver console is "admin".

E ← Home-WMS Manager × + ∨							×	
\leftrightarrow \rightarrow \circlearrowright \bigtriangleup \bigcirc 192.168.3.17/network_settings.html						h	ß.	
Settings								
Network settings	^	Wireless network						
Wireless network Ethernet								
Auto change password	i	Device name	WMS-5695					
🖵 Display & Audio	~	Network Mode	Wireless direct mode					
Moderator control	~		Start modifying					
System settings	~							
Security Settings	~							
1 Firmware upgrade	~							
\oplus Other settings	~							
About device	~							

5.2 Pairing transmitter with base unit

1. Connect DG-mini to USB port/type C port, WB-1H, WB-2H (HDMI dongle)to USB port, WB-1C, WB-2C(Type C dongle) to type C port, to pair all the transmitters with base unit. The home page displays as shown below.



2. When plug in transmitters, the message table shows "Dongle is booting, please wait..." as shown below



3. Then, the message table shows "Pairing, please wait..." as shown below

^৩ ৫% ID:WP-6603 ✔ PASS: 00005742(04:51) ⑧	00:36		
🗗 WirelessMedia		(i) (J)	
(É iOS	Android		
	8		
	Pairing, please wait	->	
Wifi IP: 192.168.43.1 Lan IP: N/A/	/192.168.3.29		^ 5 0 / V

4. After completing the pairing, the message table shows "Succeeded to pair!" on the home page, as shown below. Then, please un-plug the transmitters and use it for the mirroring on your laptop.

《㎡ ID: WP-6603 ♂ PASS: 00005742(04:51) ③	00:36
🗗 WirelessMedia	i 😓 🥘
	droid
Succeeded to pair!	
Wifi IP: 192.168.43.1 Lan IP: N/A/192.168.3.29	∧ ≡ 0 / V

If error-message "Configuration fail" is shown, please check the connection of USB/type C to keep stable after plug-in, and try again.

Note: After each changing the SSID/Wi-Fi channel in menu, all the transmitters must be paired again! When you buy additional transmitters or when a transmitter should be assigned to another Base-unit, the transmitter must be paired again.

A transmitter can only be paired to one Base-unit at a time. The transmitter will always make connection to the Base-unit it was last paired to.

5.3 Mirroring

5.3.1 Microsoft Windows PC/Laptop with Dongle

You can operate WirelessMedia for Windows optionally **with Dongle** or **PC Application.** If there are several participants in a meeting, mixed operation is also possible.

Operating system requirement: Windows XP/Vista/7/8/8.1/10 32 & 64 bit.

WD-1B:

 Plug WD-1B into USB/Type A port to pair with base unit. The "WirelessMedia-windows.exe" for windows PC/Lap-top, "WirelessMedia-macOS.app" for Macbook will be auto downloaded into WD-1B after paring mini dongle to BYOD-14HC.

🗊 🛃 📮 Driv	e Tools I:\				
File Home Share View Ma	inage				
Pin to Quick Copy access Copy	Move Copy to * to *	New item •	Properties	Select all Select none	
Clipboard	Organize	New	Open	Select	
\leftarrow \rightarrow \checkmark \uparrow $1 > WMT-MINI (I:) >$					
> 📌 Quick access	Name	D	ate modified T	уре	Size
	System Volume Information	tion 20	021/8/26 20:36 F	ile folder	
> 🥌 OneDrive	WirelessMedia-macOS.app		2021/9/22 6:06 File folder		
> 💄 This PC	ConnConfig		2021/9/22 6:06 CONNCONFIG File		1 KB
	🚏 User_Manual_WirelessMedia.pdf		021/9/22 6:06 F	DF File	6,118 KB
> 🧻 WMT-MINI (l:) 🔤 WirelessMedia-wind		s.exe 20	021/9/22 6:06 A	pplication	10,882 KB
> 🕩 Network 💼 WMedia2.apk		20	021/9/22 6:06 A	APK File	3,252 KB

2. Plug WD-1B into PC/Laptop/MACbook and click the "Launcher" to run. WD-1B will auto change PC's wifi to the target base unit wifi. No need to manually change PC's wifi. It will pop out the message bar to enter the password to connect.

- ×
Host name: N/A
IP address: N/A
Device list
Connect Device X
Device ID: WP-3001
Please enter password:
Show password
OK Exit
WMS-2005 🔂 Connect
AirShare-3584 🔂 Connect
SimpliShare-3835
Unconnected
on connected

3. It will show "Ready to share", click to share the desktop to screen.

	- ×		- ×
Host name: wp- IP address: 192.	811SJ/	Host name: wp IP address: 192	a
Device list		Device list	
Enter Wi-Fi /LAN IP to connect directly !	\times \mathscr{E} \odot	Enter Wi-Fi /LAN IP to connect directly !	\times 8 \odot
WP-3001 192.168.3.54	Disconnect	WP-3001 192.168.3.54	Disconnect
WML-9920	Connect	WML-9920	Connect
zxl-guest02	Connect	zxl-guest02	Connect
WMS-2481	Connect	WMS-2481	Connect
WMB-6827	Connect	WMB-6827	Connect
WMS-9313	Connect	WMS-9313	Connect
WMB-2385ot	Connect	WMB-2385ot	Connect
≡¢		₽	
Ready to shar	e	Sharing	

Note: for second time user, WD-1B will automatically run to share screen, no need to click "Launcher".

WB-1H, WB-2H (HDMI dongle)

- 1. Plug the USB port of WB-1H, WB-2H to base unit to pair.
- 2. Plug the USB port and HDMI port of WB-1H, WB-2H to PC/Laptop/MacBook. USB port for power and HDMI for AV.
- 3. Touch to mirror when the LED indicates is static green.
- 4. When LED is static red, the desktop is mirroring to the main screen.



WB-1C, WB-2C(Type C dongle):

- 1. Plug the Type C port of WB-1C, WB-2C to base unit to pair.
- 2. Plug the Type C port of WB-1C, WB-2C to PC/Laptop/MacBook.

- 3. Touch to mirror when the LED indicates is static green.
- 4. When LED is static red, the desktop is mirroring to the main screen.



5.3.2 Microsoft Windows PC/Laptop with application

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

1. Use a universal USB stick to create a "Launcher", which is stored in the base unit. Connecting the USB stick to base unit and click the **DOWNLOAD** icon on the homepage to download "WirelessMedia-windows.exe" for windows PC/Lap-top, "WirelessMedia-macOS.app" for Macbook, "user manual" and "WMedia2.apk".



Or you could download the application from web page, by connecting PC with same network of base unit.

WirelessMedia for Android Please click to download the Android APK	WirelessMedia for Windows WirelessMedia Desktop client software for best performance	WirelessMedia-Pro for Windows WirelessMedia Desktop client software for best safety	WirelessMedia for MacOS X Please click to download the MAC APP
User manual Please click to download user manual			

- 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

Host name: N/A Host name: WP-3001 Host name: WP-3001 IP address: N/A IP address: 192.168.3.54 IP address: 192.168.43.1 Device list Device list Device list × 8 0 \times 2 \odot 19.168.3.1 × 8 0 WP-3001 192.168.43.1 WP-3001 192.168.3.54 WML-9920 ✐ WML-9920 ¢ zxl-guest02 ♧ ¢ WMS-2481 6 zxl-guest02 WMB-6827 WMS-2481 ¢ ¢ WMS-3007 Ø WMB-6827 ¢ WMS-9313 WMS-9313 ✐ Ð WMB-2385ot WMB-2385ot ♧ Connect ¢ Connect ≣¢ Ш¢ Unconnected Ready to share Ready to share

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**".

connections are password protected (lock icon 🙆).

-	×
Host name: N/A	
IP address: N/A	
Device list	
Connect Device	×
Device ID: WP-3001	
Please enter password:	
Show password	
OK Exit	
🗌 WMS-2005 💮 Conne	ect
AirShare-3584	ect
SimpliShare-3835 🕤 Conne	ect 🗸
≣¢	
Unconnected	

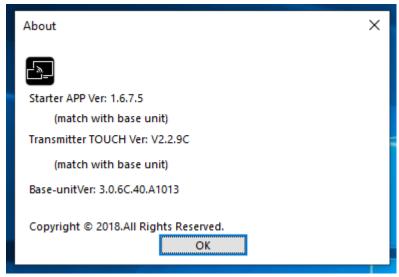
5. Click "Ready to share" in PC, when window color is static red, the screen is mirroring to the main screen.

- ×	- ×
Host name: wp-3001 IP address: 192.168.3.54	Host name: wp-3001 IP address: 192.168.3.54
≡¢	≣¢
Ready to share	Sharing

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.



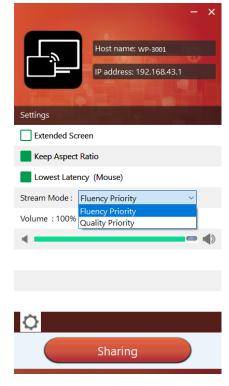
• "Exit": End APP. Exiting the App completely.

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.

5.3.3 Operations for Microsoft Windows PC / Laptop – Extended

Screen

Click the icon in App to open/close "options".



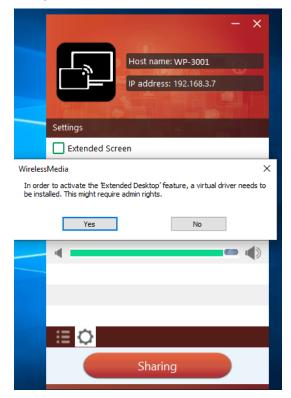
"Options":

• 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.

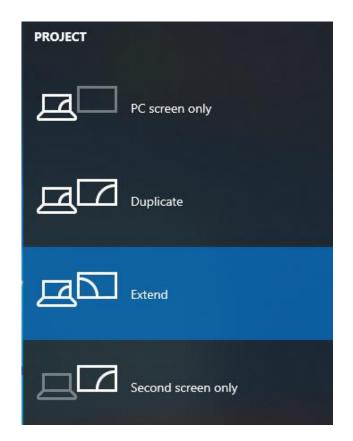
For the first time use of function "Extended Screen", click the "Extended Screen", will pop out a message to indicate the installation of the "ExtendedDisplay" driver. Click "yes" to continue, once installed, the "Extended screen" function is ready to use.



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) Image transmission delay is small, image resolution will be lower, suitable for PPT presentation mode.
- Quality Priority: The image resolution is relatively high, but when the image content is complex, the transmission delay will be relatively larger, suitable for watching video.

• 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.

5.3.4 MAC OS PC/Laptop with Dongle

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

WD-1B:

 Plug WD-1B into USB/Type A port to pair with base unit. The "WirelessMedia-windows.exe" for windows PC/Lap-top, "WirelessMedia-macOS.app" for Macbook will be auto downloaded into WD-1B after paring mini dongle to BYOD-14HC.

• • •		WMT-N	AINI		
< >		· * * ~		Q Search	
Back/Forward	View	Group Action	Share Edit Tags	Sear	ch
Favorites	Name	∧ Dat	te Modified	Size	Kind
OSB	User_Manu.	sMedia.pdf Yes	sterday at 6:06 AM	6.3 MB	AdobeF (.pdf)
Recents	🗗 WirelessMe	dia-macOS Yes	sterday at 6:06 AM	7 MB	Application
Recents	WirelessMe	indows.exe Yes	sterday at 6:06 AM	11.1 MB	Microslication
Applications	WMedia2.a	ok Yes	sterday at 6:06 AM	3.3 MB	Document
🖺 Documents					
(6) AirDrop					
🛄 Desktop					
🕐 Downloads					
Locations					
🔲 gst08					
Document_2					
WMT-MINI	A				

2. Plug WD-1B into PC/Laptop/MACbook and click the "Launcher" to run. WD-1B will auto change PC's wifi to the target base unit wifi. No need to manually change PC's wifi. It will pop out the message bar to enter the password to connect.

	- ×
Host name: N/A	
IP address: N/A	
Device list	
Connect Device	×
Device ID: WP-3001	
Please enter password:	
Show password	
OK Exit	:
🔲 WMS-2005 💮	Connect
AirShare-3584	Connect
SimpliShare-3835	Connect 🧹
≡¢	
Unconnected	
onconnecteu	

3. It will show "Ready to share", click to share the desktop to screen.



Note: for second time user, DG-mini will automatically run to share screen, no need to click "Launcher".

WB-1H, WB-2H (HDMI dongle)

- 1. Plug the USB port of WB-1H, WB-2H to base unit to pair.
- 2. Plug the USB port and HDMI port of WB-1H, WB-2H to PC/Laptop/MacBook. USB port for power and HDMI for AV.
- 3. Touch to mirror when the LED indicates is static green.
- 4. When LED is static red, the desktop is mirroring to the main screen.



WB-1C, WB-2C (Type C dongle):

- 1. Plug the Type C port of WB-1C, WB-2C to base unit to pair.
- 2. Plug the Type C port of WB-1C, WB-2C to PC/Laptop/MacBook.

- 3. Touch to mirror when the LED indicates is static green.
- 4. When LED is static red, the desktop is mirroring to the main screen.



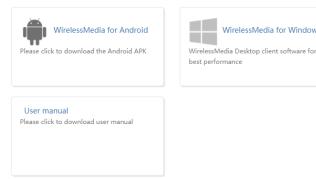
5.3.5 MAC OS PC/Laptop with application

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

1. Use a universal USB stick to create a "Launcher", which is stored in the base unit. Connecting the USB stick to base unit and click the **DOWNLOAD** icon on the homepage to download "WirelessMedia-windows.exe" for windows PC/Lap-top, "WirelessMedia-macOS.app" for Macbook, "user manual" and "WMedia2.apk".



Or you could download the application from web page, by connecting Macbook with same network of base unit BYOD-14HC.



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.

WirelessMedia for Windows

WirelessMedia-Pro for

WirelessMedia Desktop client software for

Windows

best safety

WirelessMedia for MacOS X

Please click to download the MAC APP

3. Double-click the "WirelessMedia for Mac" Launcher program Discussion all available "WirelessMedia" in the same network will be displayed, select which device you want to connect to. The connections are

IP address			
Device list		Device list	
Enter Wi-Fi/LAN IP to conn	nect directly ! 🗙 🖌 🕐	Enter Wi-Fi/LAN IP to con	nect directly ! \times
WP-3001 192.168.3.54	Connect	WP-3001	🗇 Dis
WMB-6827	Connect	WMB-6827	tê o
WML-9920	Connect	WML-9920	6 C
WMB-2385ot	Connect	WMB-2385ot	de la
zxl-guest02	Connect	zxl-guest02	di c
WMS-2481	Connect	WMS-2481	l⊕ c
≣¢		≣¢	

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 8). 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 desktop 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 in the or not in the 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.

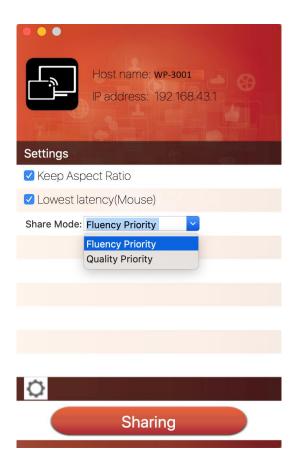
(🕒 😑 🔹 About WirelessMedia
	WirelessMedia: 8.7.5.5 (match with base unit)
	Transmitter TOUCH Ver: 2.2.9C (match with base unit)
	Base-unitVer: 3.0.6C.40.A1013
	Copyright © 2018. WirelessMedia All Rights Resvered.
	ок

• "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.

5.3.6 Operations 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) Image transmission delay is small, image resolution will be lower, suitable for PPT presentation mode.
- Quality Priority: The image resolution is relatively high, but when the image content is complex, the transmission delay will be relatively larger, suitable for watching video.

5.3.7 Quad view mirroring:



BYOD-14HC base unit can mirror 4 sources onto main display simultaneously, which supports PC/Laptop and mobile devices.

5.3.8 Mobiles Devices

Sharing on Android devices

1. Open the "WirelessMedia" application.



- 2. Connect your mobile device to one of the displayed Wi-Fi networks.
- 3. Open the "WirelessMedia2" application in your mobile device, and you will see the Home Page of

"WirelessMedia2" as shown below. and click the device list refresh button for Android, which is highlighted in red circles as shown below:

≝all ≝all ⊕ 25 K/s		27% 🖭 11:00
E	Device list	:
	Dropdown refresh	
🗇 WMS-5695		192.168.3.17
🗇 WMS-2456		192.168.3.69
🗇 WMS-6791		192.168.3.13
Other devic	e	
Ø		\bigcirc
Disconnecte	d Share scree	n Fullscreen

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

"""""""""""""""""""""""	27% 🖭 11:00	⁶⁶ all ⁶⁶ all 完 ²⁸ K/s		29% 🖭 11:07
Device list	:		Device list	
Dropdown refresh			Dropdown refresh	
🗇 WMS-5695	192.168.3.17	C KlickandSł	10w-1396	192.168.3.18
🗇 WMS-2456	192.168.3.69	DWMS-2456	; ;	192.168.3.69
🗇 WMS-6791	192.168.3.13	🗇 WMS-6791		192.168.3.13
Other device		🗇 WMS-5695	5	192.168.3.17
		Enter pa	ssword	
		Password		
			assword	_
			4354614	
		canc	el	ok
Disconnected Share scree	n Fullscreen	Disconnecte		n Fullscreen

5. After completing the pairing, it shows OSD "***" on the home page. For example, if we connect it by a HUAWEI-PLA-AL00, it shows a "HUAWEI-PAR-AL00" on screen, as shown below.

PAR-AL00

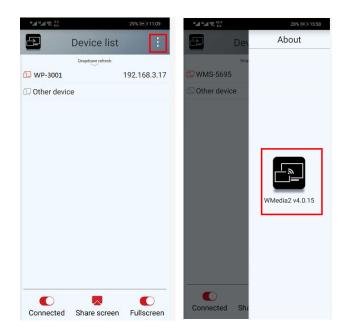
- 6. Now you can mirror your desktop of your mobile.
- 7. Click again the button "Share Screen" to stop mirroring.
- ♦ Click the connected device name to check the base unit status and base unit firmware version.

$\operatorname{and}\operatorname{and} \otimes \operatorname{and}_{22}^{\mathrm{Ke}}$		29% 🖭 11:09		$``all ``all \otimes {}^{153}_{K^{\rm S}}$		29% 🖭 11:11
8	Device list	:			My device	D
	Dropdown refresh					
🗇 WP-3001		192.168.3.17		Name		WP-3001
🗇 Other dev	ice		-	Version	3.0.70	0.40.A1020
				IP	19	2.168.3.17
				Password	,	******* 💿
				Status	sha	ring screen
				Fullscreen		
				Share scree	n	
		O				
Connected	Share screen	Fullscreen				

♦ Click "Fullscreen" to be full screen in the main screen when more than one signal is connected and shared.

$\text{and} \text{and} \text$		29% 🖭 11:09
E	Device list	:
	Dropdown refresh	
💭 WP-3001		192.168.3.17
🗇 Other devi	се	
Connected	Share screen	Fullscreen

♦ Click the upper right corner icon, check the "WirelessMedia2" application version information.



Sharing on IOS devices

1. With **AirPlay** technology, user can stream his screen or music, (YouTube-) videos, pictures … wireless to Base-unit. Connect your iOS device with the same Wi-Fi network from BYOD-14HC.

For IOS devices, activate the control center. Click the **Airplay** icon on your Apple device and select the target BYOD-14HC to start mirroring through the BYOD-14HC to the main screen.

It will show OSD on home screen after connecting successfully.



5.3.9 Miracast on Android Devices and WIN10 PC/Laptop

Note: BYOD-14HC only under "wireless infrastructure mode", the miracast function is available. While if needs to be supported in all three wireless mode, user needs to install an extra wireless USB adapter (WiFi dongle) to support this function.

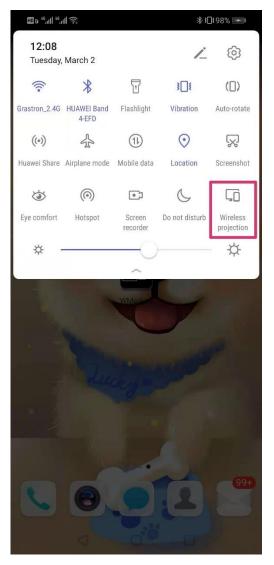
Wireless network

1.Device name	2.Mode selection 3. Network settings 4.SSID setting
Wireless direct mode	O D D D D D D D D D D D D D
	Previous Next step

Android Devices

Steps as below:

- 1. Make sure the Wi-Fi or WLAN is enabled.
- 2. Swipe down from the top of phone's screen and click the wireless projection icon in the popup page.



3. It will pop out the wireless projection window, find the proper base unit in the available list to connect.

Note: under Security Level 1 mode, there is no need to enter password to connect. Under Security level 2 and Security level 3 mode, it will need to enter password on BYOD-14HC home screen to connect and mirror.

- 4. After entering password, it will show your mobile content on display.
- 5. Click the "wireless projection" icon again, disconnect to stop mirroring.

WIN10 PC Miracast

- 1. Make sure the Wi-Fi or WLAN is enabled.
- 2. Click the PC bottom right corner operation zone icon as below.



3. Click "project" icon to enter password on home screen to connect and mirror.

Note: under Security Level 1 mode, there is no need to enter password to connect. Under Security level 2 and Security level 3 mode, it will need to enter password on BYOD-14HC home screen to connect and mirror.

Manage notifications				
	Foo	us assist		
Your notifications will remain quiet here in Action Center while you're in full screen mode. Only alarms will break through. 3:20 PM • via 搜索				
Turn	off now	Change foo	cus assist	
	Windows Security			
Firewall & I	network prote	ection		
Collapse		Clea	r all notifications	
-B	<i>(</i> iii	ø	\$	
Tablet mode	Network	All settings	Airplane mode	
ക്	۶	նին	ġ.	
Location	Focus assist	Mobile hotspot	Night light	
ಹ		Ð	-	
VPN	Battery saver	Project	Connect	
÷ —	÷÷			

- 4. After entering password, it will show your mobile content on display.
- 5. Click the "project" icon again, disconnect to stop mirroring.

5.3.10 Chromecast on PC

BYOM-10HC support Chromecast function on WIN 7 and WIN 10 PC.

PC and BYOD-14HC base unit need to be in the same LAN network to start cast content onto screen via Chromecast.

1. Open Chromecast browser, connect your PC with same network of BYOD-14HC as below pic.

🌣 Se	ttings	< +	• - • ×
$\leftarrow \rightarrow$		ome://settings/languages	☆ 😩 :
Ар	ps DB DB Schenker		🗉 Reading list
Setti	ngs	Q Search settings	
÷	You and Google	Languages WP-3001 正在连接	
Ê	Autofill Safety check	Language English	୍
0	Privacy and security	Spell check 下一步	取消
@	Appearance Search engine	Spell check isn't supported for the languages you selected Grastron_2.4G Stress Content of the languages o	
	Search engine Default browser	Downloads Grastron_5.0G	
Ċ	On startup	C:\Users\lydia\Downloads	
Advar	nced 🔺	Ask where to save each file before downloading 0 5全	
(1)	Languages Downloads	Accessibility Accessibility	
Ť	Accessibility	Live Caption Automatically creates captions for English audio and video. Audio and captions never leave your	o流量计费。
3	System	device.	
Ð	Reset and clean up	▼ Caption preferences Customize caption size and style for Live Caption. Some apps and sites will also use this setting. WLAN 飞行根式	

2. Click "cast" to start Chromecast function.

Settings	+	• - 0
← → C ← C	;//settings/languages	☆ 🗟 😩 New tab Ctri+
Settings	Q [Search settings	New window Ctrl+ New Incognito window Ctrl+Shift+
You and Google	You and Google	History Downloads Ctrl- Bookmarks
Autofill Safety check	Get Google smarts in Chrome Sync and personalize Chrome across your devices	Zoom - 100% + C Print Ctrl+ Ctrl+ Ctrl+
Privacy and security	Sync and Google services	→ Find Ctrl- More tools
Appearance Search engine	Customize your Chrome profile	Edit Cut Copy Pa Settings
Default browser	Import bookmarks and settings	Help
() On startup	Autofill	Exit
Advanced •	Ov Passwords	•
Languages Downloads	Payment methods	>
Accessibility	Addresses and more	•
🔧 System	Safety check	
S Reset and clean up		S + •, 8 • 8 * * *

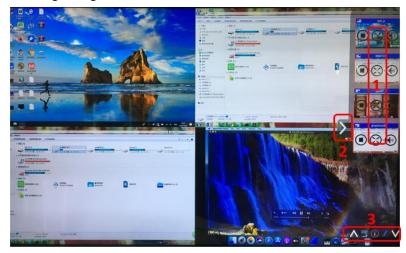
3. Find target base unit SSID as below. Click to connect.

4. Three options to choose to cast. Cast tab, Cast desktop, Cast file.

5.4 Preview Window

At touch-screen or with mouse of Base-unit, you can click on LEFT or RIGHT-arrow (2), to show the small

preview-windows as a bar on the right edge of the screen, or to hide them, if they are disturbing. Once the preview windows are activated, you see live-pictures (1) of all connected transmitters and android devices via "WirelessMedia2" APK at the right edge of the screen. Just scroll UP or DOWN (3) to see further preview pictures.



As soon as presenter is clicking with mouse of Base-unit, or clicking with finger at touch-screen, the appropriate participants of the meeting is activated, another click at the arrow shows his picture at the main screen in full

format. A red frame is shown for the active picture. The button

indicates play button, click to show screen.



on 💹 indicates step out screen, click to stop mirroring the current signal. The button 🕨



full screen, click to be full on main screen. The button indicates volume, click to adjust the volume of

connected signal. The button indicates the location of connected devices on main screen.





5.5 Whiteboard & Annotation

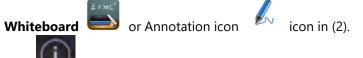
Whiteboard and **Annotation** requires an HID compatible device, such as interactive white board or interactive touch screen. It is easy to use, makes collaboration in your business more productive and effective: documents can be easily written, edited, captured and shared.

Whiteboard: write all your ideas and share the digital notes with anybody. Different colors of pen and background can be selected.

Annotation: draw or write annotations in overlay within your documents, presentations. Save and share everything that was discussed. Different colors of pen can be selected.

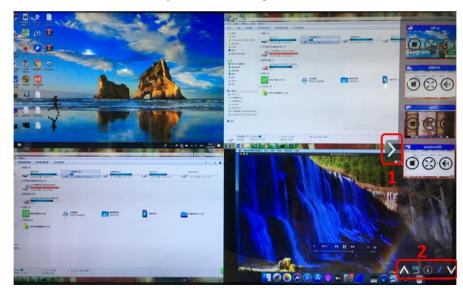
How to start Whiteboard or Annotation mode

The "Preview window" in Home Screen to start this mode. Tap (click) the LEFT-arrow (1), located on the right side of the screen, and select



Icon in (2) indicates "information", click to check the base unit SSID, password, Wifi IP and Lan IP address when some device are sharing on main screen. This info will show on main screen at least 20s then will disappear 56 / 110

automatically. In order to let other attendees join into meetings as well.



The toolbar for Whiteboard or Annotation appears in the bottom of your screen. If another user is mirroring, the Whiteboard & Annotation function is closed.

5.5.1 Whiteboard



Click on the icon to enter the white Whiteboard page. You can create free drawings with your finger at

touch screen, mouse (multitouch capability).



Use the toolbar to select one of the following functions.

ID	o select one of the following fur Icons	Function
Tool bar 1		Add an empty page Delete the actual page
		Display previous or next page
		Undo: one step backward in changes
		Redo: one step forward in changes
Tool bar 2		Erase part of drawings or annotation, change diameter by a longer tap
		Clear the entire drawing/writing on the screen
		Pen allows writing/drawing in different colors
		Draw basic geometric shapes
		Select color of board, the drawing will be kept
Tool bar 3		will pop up, when "Pen" or "Draw shape" or "Select color of board" is selected, for individual change of size of Pen, Shape or color.

Tool bar 4	Save the current screenshot on local storage (PNG+WMN)				
File options	Close Whiteboard to go back to Home screen,				
Open	 actual project can be saved on local storage (WMN)				
New project	File options:				
Save as	 Open WMN-file from local storage and continue/edit an 				
	older project				
Import from U disk	New project				
Save as pdf	 Save as WMN on local storage in unit, it will be 				
	actual project can be saved on local storage (WMN) File options: Open WMN-file from local storage and continue/edit an older project New project				
Clear history	 Import from U disk stored project (WMN) 				
	 All pages are saved as PDF on local storage 				
	 Clear history – delete all whiteboard & annotation 				
Street out of States of St	files on local storage				

5.5.2 Annotation



Use the toolbar to select one of the following functions.

ID	Icons	Function
		Undo: one step backward in changes
		Redo: one step forward in changes
		Erase part of drawings or annotation, change
		diameter by a longer tap
Tool bar 1		Clear the entire drawing/writing on the screen
		Pen allows writing/drawing in different colors
		Draw basic geometric shapes
		Close Whiteboard to go back to Home screen,
		actual project can be saved on local storage (WMN)
Tool bar 1		Close Whiteboard to go back to Home screen,
		Save the current screenshot on local storage (PNG)

Download the drawings to connected users

Scan the QR-code with your mobile's camera or enter the given IP-address in a browser. If the network connection is set properly, you will get the saved files on Base unit, which you can download as PNG file. The possibility for download will be closed after you click OK. You can copy data to USB disk and put this USB disk into the Base-unit and import with "Import from U disk" to the Whiteboard-section.



http://192.168.43.1:38238/

Files on base unit:/111

name size modify date action 0.png 381.5 KB 19-12-02 PM04:57 download

6. Web Setting Management Configuration

Connect base unit ID & Password or LAN IP to laptop, to enter Wi-Fi IP browser page to configure settings of base unit. The "WirelessMedia-windows.exe" and "WirelessMedia-Pro.exe" for windows PC/Lap-top, "WirelessMedia-macOS.app" for Mac OS X, "user manual" and "WirelessMedia" for Android can be downloaded here.

Note: after setting, user need to wait for at least 1 min to restart the unit. Otherwise, the modification on the setting will not be saved.

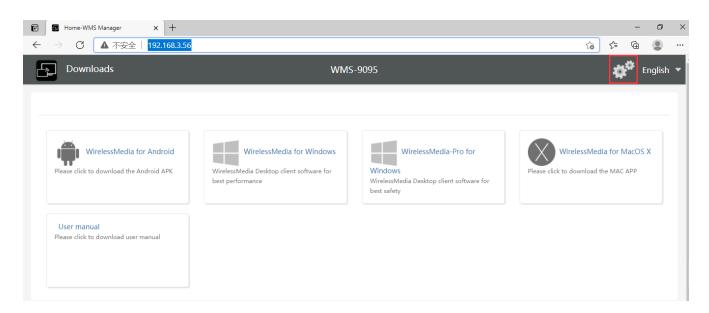
e	Home-WMS Manager × +			- 0	×
\leftarrow	→ C ▲ 不安全 192.168.3.56			ta t= 🖻 😩	
Ŀ	Downloads	WM	S-9095	🐞 Englis	h 🔻
	WirelessMedia for Android Please click to download the Android APK User manual Please click to download user manual	WirelessMedia for Windows WirelessMedia Desktop client software for best performance	WirelessMedia-Pro for Windows WirelessMedia Desktop client software for best safety	WirelessMedia for MacOS X Please click to download the MAC APP	-

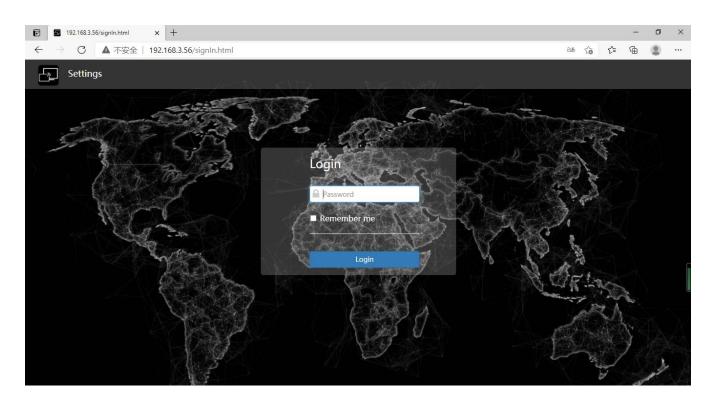
Click "Setting" on the top right corner to enter into menu to configure.

A password is required to enter the configuration menu. The default password after Reset is "admin". You can change the password in menu "Security setting".

Note:

If user has forgotten his password, you need to make a Factory Reset to restore "admin" as password.





🕑 Home-WMS Manager	× +					-
← → C ▲ 不安全 192.168.3.56/network_settings.html					ť≡	ć= @
Settings						
Network settings	^	LAN1 LAN2				
Wireless network		DHCP	Enable	•		
Ethernet		IP address	0.0.0			
Auto change password		Mask	0.0.0			
🔉 Display & Audio	~	Gateway	0.0.0			
Moderator control	~	DNS1	0.0.0			
System settings	~	DNS2				
Security settings	~		0.0.0.0			
Firmware upgrade	~	MAC	2E:31:6D:00:01:2F			
Other settings	~		Confirm settings			
About device	~					

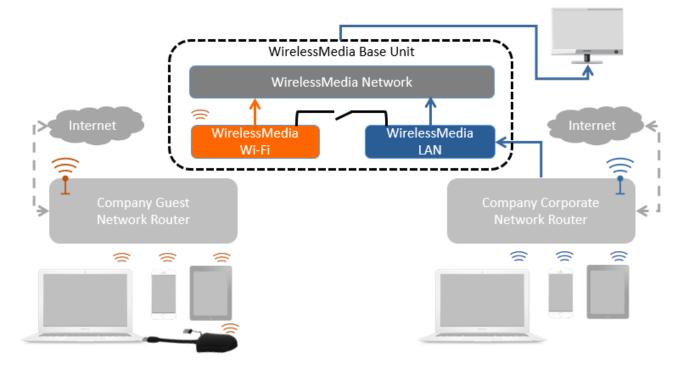
The main interface of Setting is shown as below, including **Network settings**, **Display & Audio**, **Moderator control**, **System settings**, **Security settings**, **Firmware upgrade**, **Other settings**, **About device**.

6.1 Network settings

6.1.1 Wireless network

To take the full benefits of the WirelessMedia possibilities, BYOD-14HC should be properly integrated in the organization's network (company/university/school). This wizard allows user to create a custom configuration for integration of WirelessMedia into the existing wireless infrastructure in larger organizations. **Segmented Dual Network**, is to provide two segmented routing ways to connect to the base unit simultaneously and separately, including wireless WI-FI network (normally connected to Guest/untrusted network) and wired LAN network (normally connected to the corporate/trusted network).

A typical Segmented Dual Network topology is shown as below:



6.1.1.1 Wireless network configuration wizard

Enter a device name for the Base-unit. We recommend to take a descriptive name, if you have more than one WirelessMedia installed.

Only "a-z", "A-Z", "0-9", "-_" and space are legal character.

Click "Next step". The following three connection methods are available: wireless network

1.Device name	2.Mode selection 3.Netw	rork settings 4.Ssid setting
• E Wireless direct mode	Wireless infrastructure mode	LAN infrastructure mode
F	Previous	Next step

6.1.1.2 Wireless Direct Mode

After Factory Reset, BYOD-14HC base unit starts up in the **default Stand-Alone** "Wireless direct mode" configuration, where the Base-unit creates its own wireless access point, which all transmitters use to connect.

This is typical for a quick setup for small group meetings. The Wi-Fi icon for the "Wireless direct mode" is displayed in top status-bar of Home screen. **Guest** connect to the access-point of BYOD-14HC, while **Staff** can also connect to Base-unit via Wi-Fi or via LAN connection to their corporate network.

Stand-Alone Connection

The internal Wi-Fi access Point of BYOD-14HC is a . The dongle is paired directly to it. Guest and Staff

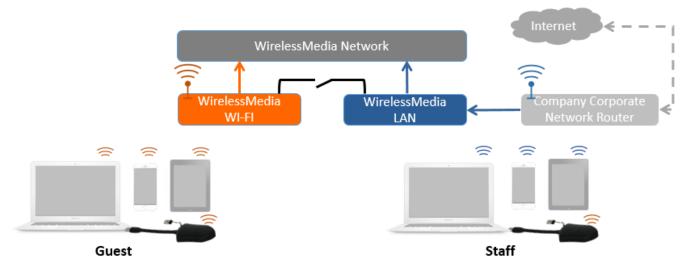
use the internal Wi-Fi access point of Base-unit to present with all their units. No Internet access is required.

The LAN-Port of Base-unit is not connected. The PC-users can present <u>with or without</u> dongle by WirelessMedia PC driver (Windows or MacOS). Android users (BYOD) can share their content by installing the free APP on their device and IOS users can use AirPlay (Apple only).

Recommended Environment

This option is best for temporary operation, small installations, and rooms without network access or networks that do not allow network access for Guests, due to strict security concerns, and are completely separate from the corporate network.

Under this mode, dongle will be automatically paired to the base unit Wi-Fi hotspot when plugging dongle to the base unit USB port for pairing.



You can start using BYOD-14HC in this mode without any other wireless network configuration.

Click "Next step" to

Set up Wi-Fi access point

Set-up Wi-Fi access point includes, Frequency, Channel, Password.

Wireless network

1.Device name	e	2.Mode selection 3.Networ	k settings 4.SSID setting
C)	•	•
<u>((_))</u>	<i>«</i>	<u>(1)</u> _~	(<u>()</u>)
Allow internet access	(bridging) via LAN 1	Allow internet access (bridging) via LAN 2	Disable internet access
SSID discovery and connection	Yes		•
Frequency	5GHz		•
Channel	36		•
Password	00001436		0
	Pre	evious Ne	ext step

- Frequency: Click to select 2.4 GHz or 5 GHz Wi-Fi frequency. Default is 5 GHz.
- **Channel**: Click to select the Wi-Fi channel. Default is 5 GHz, Auto.

If the Wi-Fi channel is changed, no new pairing of the dongle is necessary.

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

5 GHz frequency band: no need to choose 5G channel, system will choose proper channel automatically. Default is 5 GHz, channel: Auto.

Default channel (USA area): 36,40,44,48 or 149,153,157, 161. Four channels will be opened at the same time, system will automatically choose proper channel from them.

Default channel (European area): 36,40,44,48.

Default channel (China): 149,153,157,161.

• **Password**: Click in the input filed to fill out the appropriate password with length of **8 characters**.

Click "Next step" to edit or change Guest network SSID and STAFF network SSID. This information will be shown at Home Screen of WirelessMedia.

Click "Submit settings" to finish configuration.

After it please re-pairing dongle with the base unit.

There are 3 ways of connecting the base unit to Internet through Base unit in "Wireless Direct Mode".

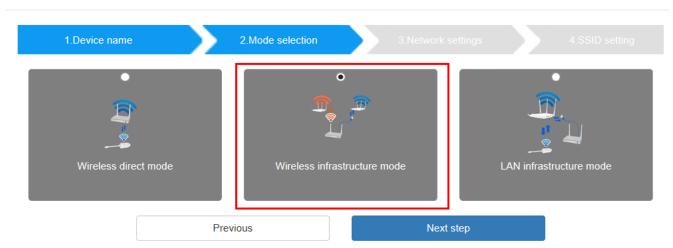
- Allow Internet access (bridging) via LAN1: able to connect to Internet if LAN1 port is available.
- Allow Internet access (bridging) via LAN2: able to connect to Internet if LAN2 port is available.
- Disable Internet access: cannot be on Internet if choose this mode. (For safety concern)

Wireless network

1.Device name		2.Mode selection	3.Network	settings		
0			•		•	
<u>((1))</u>	≪	<u>((;))</u>		<u>(((-))</u>		
Allow internet access (bridging) via LAN 1	Allow internet acce	ss (bridging) via LAN 2	Disable in	ternet access	
SSID discovery and connection	Yes			•		
Frequency	5GHz			•		
Channel	36			-		
Password	00001436			۲		
	Pre	evious	Nex	kt step		

6.1.1.3 Wireless Infrastructure mode

Wireless network



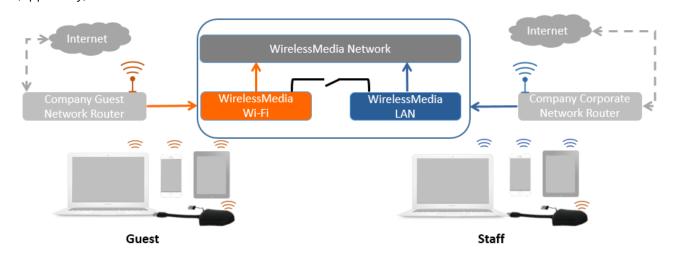
WirelessMedia can connect to a wired and a wireless network simultaneously. The basic unit is firmly "connected to the company network with LAN. Guest users connect to Wi-Fi "Guest" access. The employees ("Staff") connect to their usual access point of the corporate network, without having to change the Wi-Fi. This is very useful for organizations, which have a wireless "Guest" network for external visitors and a wired "Staff" network for their employees. The segmented Dual Network of WirelessMedia provides two separated routing ways to connect to the Base-unit at same time. Guest-users are not able to access any resource on the Ethernet of the company. WirelessMedia uses the existing wireless network infrastructure. Guest and Staff have internet access.

Dual Network Configuration

The internal the Wi-Fi network of WirelessMedia is connected to Guest Wi-Fi network of the organization, (Client

Mode: the indicator-icon shows the actual signal strength). The Base-unit is still wired with LAN-cable to

the internal company network The PC-users can present, with or without dongle TOUCH by WirelessMedia PC driver (Windows or MacOS). Android users can share their content by installing the free APP, IOS users can use AirPlay to share content (Apple only).



The dongle is connected to the Wi-Fi access Point of Guest network, which in turn is connected to the internal Wi-Fi access Point of WirelessMedia. (The dongle can also be configured to connect to the enterprise's access point.) Mobile users stay connected to their current network, have access to their normal corporate environment, as well as Internet access.

The actual received signal strength from Guest network is shown in Home screen of WirelessMedia:



Follow the instructions of the configuration wizard for "Wireless infrastructure mode". When pairing the dongles, by plugging the dongle in the USB port of the Base-unit, it will automatically pair to the associated access point of Guest or Staff Wi-Fi and NOT to WirelessMedia.

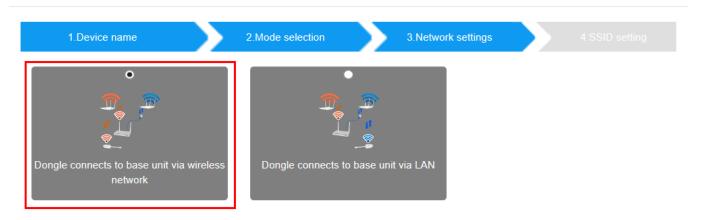
Click "Next step" to configure the network which dongle needs to be paired to.

"Dongle connects to base unit via wireless network."

Choose a wireless network which is separate from the company LAN network for guest users.

Select SSID: Choose a wireless network to connect to base unit for guest. Password: enter password to connect the base unit to the guest network.

Wireless network



Click "Next step" to edit or change Guest network SSID and Staff network SSID.

After submitting successfully, please re-pair dongle with base unit.

"Dongle connects to base unit via LAN."

Choose a LAN network which is used for the company staff users. *Note:* usually in this mode, dongle paired for internal staff usage.

Select SSID: Choose a wireless network to connect to base unit for guest. **Password:** enter password to connect the base unit to the guest network.

<u>Select dongle SSID</u>: choose the same <u>LAN</u> network which base unit connects, to pair the dongle. **<u>Password</u>**: enter password of the LAN network.

See picture as below:

Wireless network



Click "Next step" to edit or change Guest network SSID and Staff network SSID.

After submitting successfully, please re-pair dongle with base unit.

6.1.1.4 LAN Infrastructure Mode

Wireless network

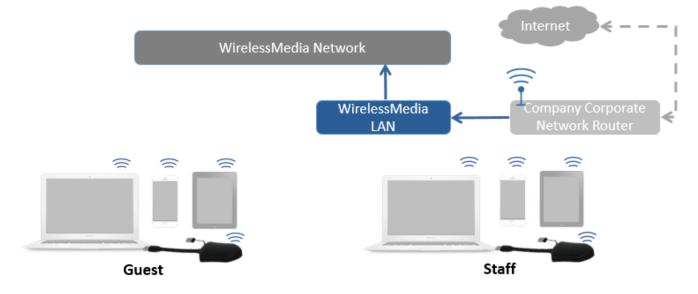


In this configuration the **built-in Wi-Fi** access point of WirelessMedia is disabled:

The dongle and/or the mobile devices can connect to the secured wireless access point of the company network. The Base-unit of WirelessMedia is hard-wired connected via LAN to the Ethernet of the Company network.

The Staff-users connect to their usual access point of Company network, without the need to change the Wi-Fi. Follow the instructions of the configuration wizard for "LAN infrastructure mode".

When pairing the dongles, by plugging the dongle in the USB /Type C port of the Base-unit, will be automatically paired to the Staff access point, and NOT to "WirelessMedia" Base-unit.



Click "Next step" to choose a LAN network which is used for the company staff users and pair the dongle into this network.

Click "Next step" to edit or change Guest network SSID and Staff network SSID.

After submitting successfully, please re-pair dongle with base unit.

6.1.2 Ethernet

Configure the Ethernet settings. BYOD-14HC has 2 Lan port, if the base unit is connected with 2 LAN cable, you can configure from below tab.

e	Home-WMS Manager	× +					-	٥	\times
\leftarrow	 → C ▲ 不安全 	192.168.3	3.56/network_settings.html	1	ĩo -	€≣	Ē	9	
	Settings							€]
•	 Network settings Wireless network Ethernet Auto change password Display & Audio Moderator control System settings 	*	LAN1 LAN2 DHCP IP address Mask Gateway DNS1	Enable • 0.0.0.0 0.0.0 0.0.0 0.0.0					
	Security settings	~	DNS2	0.0.0					
	Firmware upgrade	~	MAC	2E:31:6D:00:01:2F					
	Other settings	~		Confirm settings	J				
0	About device	~							
•	- → C ▲ 不安全	192.168	.3.56/network_settings.html		۲õ	£≡	(Ē	۲	
÷	← → C ▲ 不安全		.3.56/network_settings.html		ĩõ	€≣	Ē	•	
	Settings		.3.56/network_settings.html		ĉ	£Ξ	Ē	•	
	Settings Network settings Wireless network	: 192.168.		Enable		£≞	¢.	•	
	Settings Network settings Wireless network Ethernet	: 192.168.	LAN1 LAN2			2	Ē.		
	 Settings Network settings Wireless network Ethernet Auto change password 	 192.168. 	LAN1 LAN2 DHCP	Enable		£≞	÷.		
	 Settings Network settings Wireless network Ethernet Auto change password Display & Audio 	: 192.168.	LAN1 LAN2 DHCP IP address	Enable •		£=	ġ.	•	
	 Settings Network settings Wireless network Ethernet Auto change password 	 192.168. 	LAN1 LAN2 DHCP IP address Mask	Enable •		₹_=	ġ.		
	 Settings Network settings Wireless network Ethernet Auto change password Display & Audio Moderator control 	 192.168. 	LAN1 LAN2 DHCP IP address Mask Gateway	Enable -		£≞	G		
	 Settings Network settings Wireless network Ethernet Auto change password Display & Audio Moderator control System settings 	 192.168. 	LAN1 LAN2 DHCP IP address Mask Gateway DNS1	Enable • 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0		£=	Ġ.		
	 Settings Network settings Wireless network Ethernet Auto change password Display & Audio Moderator control System settings Security settings 	 192.168 192.168 	LAN1 LAN2 DHCP IP address Mask Gateway DNS1 DNS2	Enable - 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0		£=	€		

6.1.3 Auto change password

The password remains unchanged for all participants of the meeting, while at least one dongle **or** a Wi-Fi network of a mobile device are connected with Base-unit. After the user is disconnected, a configurable time runs.

- The changeable password will be fixed by connecting a dongle to PC/Laptop or connect a mobile unit to the Wi-Fi of the Base-unit, and continue to be changeable after 15s after disconnecting the last dongle or disconnect the Wi-Fi of a mobile unit.
- User do not need to re-pair the dongle again, if only the password is changed. A **Smart mobile device** has to enter the correct SSID and password to connect to the Base-unit access point, in order to access all functionality.

Configure to automatically change Wi-Fi password to a random number every period of time.

Home-WMS Manager	× -	+				-	٥	×
← → C ▲ 不安全	≧ 192.16	8.3.56/network_settings.html		ŵ	€_≣	œ		
Settings							€]
🗢 Network settings	^	Auto change password						
Wireless network								
Ethernet		Auto change password	5 minutes					
			Never					
Auto change password			5 minutes					
🖵 Display & Audio	~		30 minutes					
	•		1 hour					
🕁 Moderator control	~		2 hour 4 hour					
			4 hour 24 hour					
System settings	~		24 11001					
Security settings	~							
 Firmura un anala 								
🛓 Firmware upgrade	~							
Other settings	~							
 About device 	~							

Click to set the configuration, including

- Never: never change Wi-Fi password. (Even after POWER-OFF condition)
- 5 minutes: change Wi-Fi password every 5 minutes.
- 30 minutes: change Wi-Fi password every 30 minutes.
- **1 hour:** change Wi-Fi password every 1 hour.
- **2 hours:** change Wi-Fi password every 2 hours.
- **4 hours:** change Wi-Fi password every 4 hours.
- **24 hours:** change Wi-Fi password every 24 hours.

6.2 Display & Audio

6.2.1 HDMI

HDMI Resolution

Select the resolution at HDMI output of Base-unit. **Existing HDMI output resolution as below:**

- Auto
- 3840x2160 @30Hz
- 3840x2160 @60Hz
- 3840x2160 @50Hz
- 1920x1080 @60Hz

- 1920x1080 @50Hz
- 1920x1080 @30Hz

	Wireless ma	nageme	nt		
Ŵ	Network settings	~	HDMI Resolution	HDMI CEC	
5	Display & Audio	^	HDI	I resolution	Auto
[HDMI				Auto
	Audio				3840x2160@30 3840x2160@60
	Airplay screen quality				3840x2160@50
	Screen display ID				1920x1080@60 1920x1080@50
	Home screen backgrou image	ind			1920x1080@30
¢	System settings	•			
	Security Settings	~			
1	Firmware upgrade	~			
¢	Other settings	~			
0	About device	~			

Note: if the display is only support FULL HD, the 4K resolution will not be shown on the list of the below resolution.

Home-WMS Manager	× +						-	٥	×
← → C ▲ 不安全	全 192.168	.3.56/display_settings.html			τõ	£_≡	Ē		
Settings									
 Network settings Display & Audio HDMI Audio Airplay screen quality Start screen Home screen background 	► image	HDMI resolution	HDMI CEC	Auto - Auto 1920x1080@60 1920x1080@50 1280x720@60 1280x720@50					
Moderator control	~								
System settings	~								
Security settings	~								
🛃 Firmware upgrade	~								
↔ Other settings	~								
About device	~								

HDMI CEC

Base unit support CEC function if the connected display support CEC function.

Note: when you find the HDMI CEC doesn't work, you need to check whether monitor supports CEC feature or not, since some brand model monitor doesn't support CEC.

- Monitor auto power off:
 - ON (Default): When base goes into standby, it will send commands via the HDMI cable to make the connected monitor into standby also. If off "Device auto power-off", there is no commands are sent to standby the connected monitor.
 - OFF: Display will not automatically turn off when base unit is powered off.

• Auto turn off base unit when display is turned off:

When monitor into standby, it will send commands via the HDMI cable to make the connected base unit into standby also. The option menu is to ON/OFF whether "Base unit auto power-off" or not.

- On: Base unit will be auto turned off also when display is turned off.
- Off (Default): Base unit will not be auto turned off also when display is turned off.

🕑 🖪 Home-WMS Manager	x +		-	٥	×
← → C ▲ 不安全	192.168.3.56/display_settings.html	îa f ≡	Ē		
Settings				•	Î
 Network settings Display & Audio HDMI Audio Airplay screen quality Start screen Home screen background image 	 HDMI resolution HDMI CEC Monitor auto power-off OFF • Auto turn off base unit when display is turned off OFF • 				
⊕ Moderator control	✓				
System settings	v				
Security settings	~				
🟦 Firmware upgrade	▼				
↔ Other settings	▼				
About device	~				-

6.2.2 Audio

Audio

Choose audio output: Jack: output only 3.5mm mini-jack audio. HDMI: output only HDMI audio. Jack&HDMI (Default): output Jack & HDMI audio

Home-WMS Manager	× +	-					-	٥	×
← → C ▲ 不安全	192.168	3.3.56/display_settings.html			to	ເ∕≡	Ē		
Settings									
🗢 Network settings	~	Audio output	Audio volume						
📮 Display & Audio	^	Audio output		Jack&HDMI -					
HDMI				Jack					
Audio				HDMI Jack&HDMI					
Airplay screen quality									
Start screen									
Home screen background in	mage								
Moderator control	~								
 System settings 	~								
Security settings	~								
🛓 Firmware upgrade	~								
\oplus Other settings	~								
About device	~								-

Volume

User can select volume of display from 0 to 100.

Home-WMS Manager	× -	F					-	٥	\times
← → C ▲ 不安全	192.168	8.3.56/display_settings.htm	h		τô	€_=	Ē		
Settings							•		
🗢 Network settings	~	Audio output	Audio volume						
📮 Display & Audio	^	Audio volume	-	 +					
HDMI									
Audio									
Airplay screen quality									
Start screen									
Home screen background ir	mage								
Moderator control	~								
System settings	~								
Security settings	~								
🛓 Firmware upgrade	~								
Other settings	~								
About device	~								

6.2.3 Airplay screen quality

Click to select the image quality when transmit apple device by "AirPlay" mode.

🕑 🖪 Home-WMS Manager	× -	F				-	٥	×
← → C ▲ 不安全	192.16	3.3.56/display_settings.html		٢ô	₹`≡	œ		
Settings								Î
🗢 Network settings	~	Airplay screen quality						
📮 Display & Audio	^	Airplay screen quality	HIGH(1920x1080)					
HDMI			HIGH(1920x1080)					
Audio			MEDIUM(1600x900)					
Airplay screen quality			LOW(1280x720)					
Start screen								
Home screen background in	nage							
Moderator control	~							
System settings	~							
Security settings	~							
1 Firmware upgrade	~							
↔ Other settings	~							
About device	~							

6.2.4 Screen display ID

• Show device name and password when mirroring: Name (ID) and Wi-Fi-password can be shown or hided at top status-line of main screen.

e	Home-WMS Manager	×	+			-	٥	×
\leftarrow	→ C ▲ 不安全	192.1	58.3.56/display_settings.html	٢ô	₹⁄≡	Ē		
Ľ	Settings							
(ņ	Network settings	~	Start screen					
Ţ	Display & Audio	^						
	HDMI		 Show the base device name and password when mirroring Show PC's user name when mirroring 					
	Audio							
	Airplay screen quality							
	Start screen							
	Home screen background ima	age						
\Diamond	Moderator control	~						
¢	System settings	~						
	Security settings	~						
<u>1</u>	Firmware upgrade	~						
\heartsuit	Other settings	~						
0	About device	~						

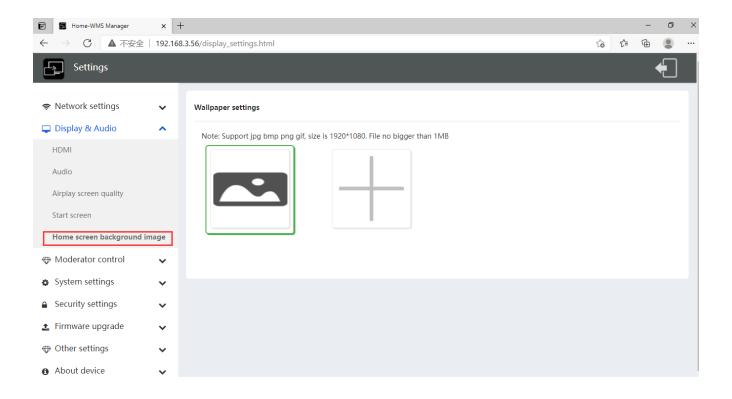
• Show PCs user name when mirroring.

Show user name.



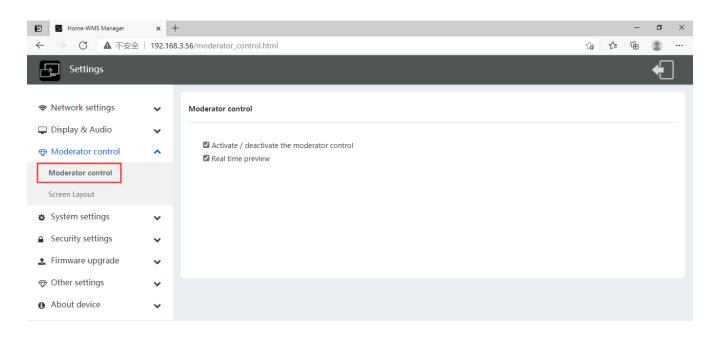
6.2.5 Home Screen background image

When powering WirelessMedia the start screen will be displayed. User can change background image of Home screen. Select the image (jpg, bmp, png, gif with resolution 1920x1080 p.) from suitable directory and activate box for selection. You can return to Standard Home screen every time.

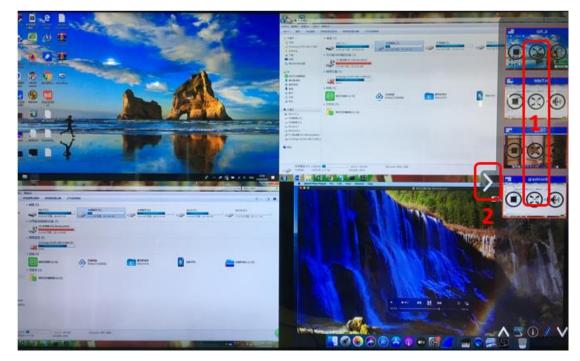


6.3 Moderator control

6.3.1 Moderator Control



Activate / deactivate the moderator control. Tick the icon, it will show the sub window as below once devices
are connected to base unit.



If do not tick the icon, the preview window bar will be minimized as below.

 ID: WMS-9095 ✓ PASS: 00009233(01:46) € 	03:31		
WirelessMedia		🧶 🕁 (i)	
(ios	🖷 Android		
	B		
🗱 PC/ 🐗 Mac			í
Wifi IP 192.368.420 Lan IP: N/A/192 1			

• Real time preview

If tick the icon, the preview window will show real time preview, if not tick, the preview window will only show a static picture as below.



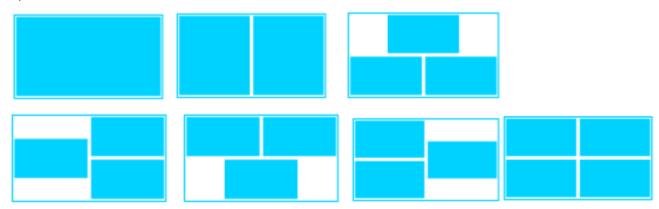
i. Screen Layout

Under web Display & Audio, adding pre-defined layout via WebGUI as option for user choice.

🕑 🖪 Home-WMS Manager	× +	+			-	٥	×
← → C ▲ 不安全	192.168	3.3.56/moderator_control.html	۲ò	₹_=	Ē	٢	
Settings							Î
	~	Screen Layout					
🖵 Display & Audio	~						
Moderator control	^						
Moderator control							
System settings	~						
Security settings	~						
🛓 Firmware upgrade	~						
↔ Other settings	~						
About device	~						
							Ţ

- 1) Full screen
- 2) Dual Screen
- 3) Three Split Screen
- 4) 4 equal split screen
- 5) 1 main/preferred screen, and the rest of 3 screen will be minimized to left, right, top and bottom.

Under Full screen, Dual screen, three split screen and 4 equal split screen layout, when long press DONGLE or click the full screen button on the preview window, other display sources or presenter will be kicked away, only one presenter left and show on the full screen.



Under 1 main/preferred screen, and the rest of 3 screen layout, long-press dongle will show in full screen, and other presenter screen will be minimized and show to the predefined layout.



6.4 System settings

6.4.1 Buttons:

Show Device name, MAC Address, Serial Number, Device Version, Device Status, Last Action, Item Operate.

			τõ	ర∕≡	Ē	
						÷.
		Search			26	II •
Serial number	Device version	Status	Last action		Operat	е
No match	ing records found					
		Serial number Device version No matching records found		Serial number Device version Status Last action	Serial number Device version Status Last action	Serial number Device version Status Last action Operate

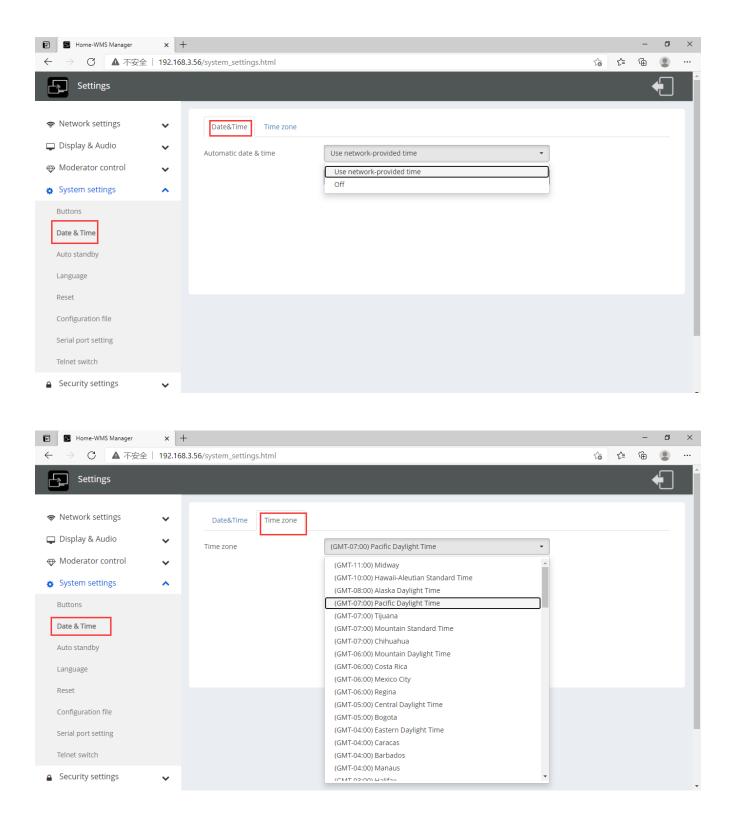
Home-WMS Manager	× +					-	٥
	È│ 192.168.	3.56/system_settings.html				û ¢ @	•
Settings							÷ l
	_						
🗢 Network settings	~	Connected Paire	d				
🖵 Display & Audio	~						
Moderator control	~	¥Delete			Search		•
System settings	~	Item ID	Device type	Mac address	Serial number	Operate	
Buttons		L 1	USB Dongle	e0:b9:4d:55:c5:ba	-	Û	
		□ 2	HDMI Dongle	60:23:a4:97:26:40	0002032005	Û	
Date & Time		3	USB Dongle	20:32:33:3b:67:01		Û	
Auto standby		Showing 1 to 3 of 3 rows	s				
Language							
Reset							
Configuration file							
Serial port setting							
Telnet switch							
Security settings	~						

Paired: Show properties of connected dongles and can be managed from this page.

6.4.2 Date & Time

Includes Automatic date & time, Set date, Set time, Select time zone.

- Automatic date & time: Check to use a NTP time server to provide time as system time.
- **Set date**: Click in the input filed to fill out the appropriate date.
- **Set time**: Click in the input filed to fill out the appropriate time manually. The setting is **not** saved, when power is off.
- Select time zone: Click in the input filed to fill out the appropriate time zone.



6.4.3 Auto standby

If the Auto Standby mode is activated, WirelessMedia will automatically switch to power saving mode, a selectable time after the last dongle was plugged out, or Wi-Fi of a mobile unit was disconnected, or there is no operation at the system. Time is selectable from **Never** to **30 minutes**. In Standby green LED in top of Base-unit is flashing and **HDMI-output is switched off**.

When a **dongle is plugged in and connected**, or a **mobile unit is connected**, Standby is deactivated.

Home-WMS Manager X	+		- 6	×
← → C ▲ 不安全 192.7	168.3.56/system_settings.html	ړ≡	<u>ب</u>	
Settings			ŧ]
♠ Network settings	Auto standby			
□ Display & Audio ✓ ⊕ Moderator control ✓	Auto standby			
 System settings 	1 minute 5 minutes			
Buttons Date & Time	10 minutes 15 minutes			
Auto standby	30 minutes			
Language				
Reset				
Configuration file				
Serial port setting				
Telnet switch				
Security settings				

Movement of mouse at USB-input at Base-unit deactivates Standby mode also.

6.4.4 Language

Select an installed display language.

 Prome-WMS Measger x + 			, , , , , , , , , , , , , , , , , , , ,						-	~
Settings Network settings Display & Audio Display & Audio Moderator control System settings Buttons Date & Time Auto standby Language Reset Configuration file Serial port settings Tenet switch English (United States) Interview Start screen language English (United States) Web-GUI language Deutsch (Deutschland) Deutsch (Otterreich) Deutsch (Otterreich) Deutsch (Otterreich) Deutsch (Schweiz) English (United States) English (India) English (India) English (India) English (New Zaland) English (Singapore) English (Singapore) English (Singapore) English (Singapore) English (India) English (India) English (Singapore) English (Singapore) English (Singapore) English (Singapore) English (Singapore) English (India) English (India) English (India) English (India) English (India) English (Singapore) English (India) English (India) English (India) English (India) English (India) English (India)	Home-WMS Manager	×	t					-	Ľ	~
 Network settings Display & Audio Obsplay & Audio Start screen language Start screen language Start screen language Web-GUI language Web-GUI language Web-GUI language Dansk Deutsch (Deutschland) Deutsch (Deutschland) Deutsch (Deutschland) Deutsch (Schweiz) English (United Migdom) English (Lineland) English (Lineland) English (Lineland) English (Canada) English (Canada)	$\leftrightarrow \rightarrow C$ A regard	È│ 192.16	8.3.56/system_settings.html			τõ	£≜	Ē		
 Network settings Display & Audio Obsplay & Audio Start screen language Start screen language Start screen language Web-GUI language Web-GUI language Web-GUI language Dansk Deutsch (Deutschland) Deutsch (Deutschland) Deutsch (Deutschland) Deutsch (Schweiz) English (United Migdom) English (Lineland) English (Lineland) English (Lineland) English (Canada) English (Canada)	Cottings									
Display & Audio Moderator control Moderator control System settings Buttons Date & Time Auto standby Language Reset Configuration file Serial port setting Telnet switch	Settings									
Display & Audio Moderator control Moderator control System settings Buttons Date & Time Auto standby Language Reset Configuration file Serial port setting Telnet switch										
Display & Audio Moderator control System settings Buttons Buttons Date & Time Auto standby Language Reset Configuration file Serial port setting Telnet switch	🗢 Network settings	~	Language							
Start screen language Moderator control System settings Buttons Date & Time Auto standby Language Reset Configuration file Serial port setting Serial port setting Telnet switch Start screen language Bahasa Melayu Català Cestina Darusk Deutsch (Deutschland) Deutsch (Osterreich) Deutsch (Osterreich) Deutsch (Schweiz) English (unda) English (unda) English (unda) English (unda) English (unda) English (unda) English (Singapore) English (South Africa) English (South Africa) English (United Stater)										
Moderator control Web-GUI language Bahasa Melayu Català Català Català Català Català Català Date & Time Auto standby Language Reset Configuration file Serial port setting Telnet switch Web-GUI language Bahasa Melayu Català Català Date & Time Auto standby Deutsch (Deutschland) Deutsch (Schweiz) English (Australia) English (India)	Display & Audio	~	Start screen language	English (United States)	-					
System settings Català Buttons Català Buttons Dansk Date & Time Deutsch (Deutschland) Auto standby Deutsch (Liechtenstein) Auto standby Deutsch (Österreich) Language English (Australia) Reset English (Australia) Serial port setting English (Ireland) Telnet switch English (South Africa) Telnet switch English (United Kingdom)	💮 Moderator control	~	Start Screen language	English (onited states)						
Buttons Čeština Date & Time Datusk (Deutschland) Auto standby Deutsch (Deutschland) Auto standby Deutsch (Österreich) Language English (Australia) Reset English (India) Configuration file English (Ireland) Serial port setting English (Singapore) Telnet switch English (Sund Africa) English (United Ktrace) English (United Ktrace)	·		Web-GUI language	Bahasa Melayu	^					
Buttons Dank Date & Time Deutsch (Deutschland) Auto standby Deutsch (Diechtenstein) Auto standby Deutsch (Österreich) Language Deutsch (Schweiz) Reset English (Australia) Configuration file English (India) Serial port setting English (Singapore) Telnet switch English (Sund Africa) English (United Ettarce) English (United Ettarce)	System settings	^		Català						
Date & Time Deutsch (Deutschland) Auto standby Deutsch (Diethenstein) Auto standby Deutsch (Österreich) Language English (Australia) Reset English (Liechtenade) Configuration file English (India) Serial port setting English (New Zealand) Telnet switch English (Singapore) English (South Africa) English (United Fitzero)	Buttons			Čeština						
Date & Time Deutsch (Liechtenstein) Auto standby Deutsch (Österreich) Deutsch (Schweiz) English (Australia) Reset English (Liechtenstein) Configuration file English (Ireland) Serial port setting English (Singapore) Telnet switch English (Sund Africa) English (United Ktarce) English (United Ktarce)	buttons			Dansk						
Auto standby Deutsch (Österreich) Language Deutsch (Schweiz) English (Australia) English (Australia) Reset English (India) Configuration file English (Ireland) Serial port setting English (Singapore) Telnet switch English (South Africa) English (United Statero) English (United Statero)	Date & Time			Deutsch (Deutschland)						
Language Deutsch (Schweiz) English (Australia) English (Australia) Reset English (Canada) Configuration file English (Ireland) Serial port setting English (Singapore) Telnet switch English (South Africa) English (United Ettree) English (United Ettree)				Deutsch (Liechtenstein)						
Language English (Australia) Reset English (Canada) Configuration file English (India) Configuration file English (Ireland) Serial port setting English (New Zealand) Telnet switch English (South Africa) English (United Kingdom) English (United Kingdom)	Auto standby			Deutsch (Österreich)						
Reset English (Canada) Configuration file English (India) Serial port setting English (New Zealand) Telnet switch English (South Africa) Telnet switch English (United Kingdom)				Deutsch (Schweiz)						
Reset English (India) Configuration file English (Ireland) Serial port setting English (New Zealand) Telnet switch English (South Africa) Telnet switch English (United Kingdom)	Language			-						
Configuration file English (Ireland) Serial port setting English (New Zealand) Telnet switch English (Singapore) Telnet switch English (South Africa) English (United Kingdom) English (United Ettrec)	Reset									
Serial port setting English (New Zealand) Telnet switch English (Singapore) Telnet switch English (South Africa) English (United Kingdom) English (United Etterc)				English (India)						
Serial port setting English (Singapore) Telnet switch English (South Africa) English (United Kingdom) English (United Kingdom)	Configuration file									
Telnet switch English (South Africa) English (United Kingdom) English (United Kingdom)				English (New Zealand)						
Teinet switch English (United Kingdom)	Serial port setting									
English (United Kingdom)	Telnet switch									
▲ Security settings										
	Security settings	~		English (United States)	_					

ľ	Home-WMS Manager	× +				-	٥	×
\leftarrow	→ C ▲ 不安全	192.168	.3.56/system_settings.html	tê.	₹⁄≡	æ		
٢	Settings							Î
(ņ	Network settings	~	Language					1
Ģ	Display & Audio	~	Start screen language	English (United States)				
\Leftrightarrow	Moderator control	~						
	System settings	^	Web-GUI language	English - 中文				I
	Buttons Date & Time			English				I
	Auto standby							
E	Language							
	Reset							
	Configuration file							
	Serial port setting							
	Telnet switch							
	Security settings	~						

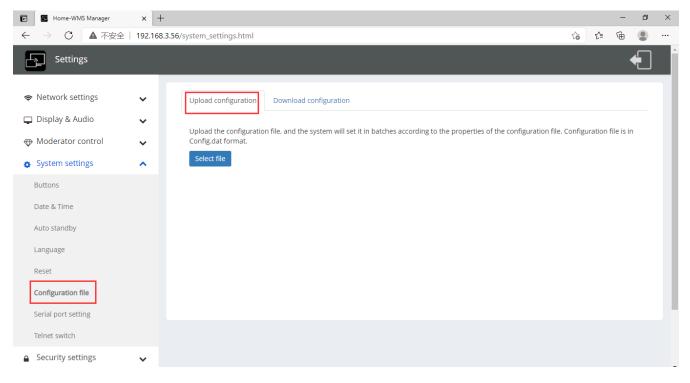
6.4.5 Reset

Doing factory reset to restore unit.

Home-WMS Manager X	+			- 0	×
← → C ▲ 不安全 192.1	168.3.56/system_settings.html	îo	לַ≟ (Ð 😩	
Settings				•	
 Network settings Display & Audio 	Reset devices Revert all settings to factory defaults. Confirm settings				
rightarrow Moderator control $ ightarrow$	Comministerings to ractory defaults.				
 System settings 					
Buttons					
Date & Time					
Auto standby					
Language					
Reset					
Configuration file					
Serial port setting					
Telnet switch					
▲ Security settings					

6.4.6 Configuration File

Configuration File is a packaged file which contains all the configuration parameter of the BYOD-14HC, which could be downloaded and copied to multiple device which needs to use the same configuration.



6.4.7 Series Port Setting

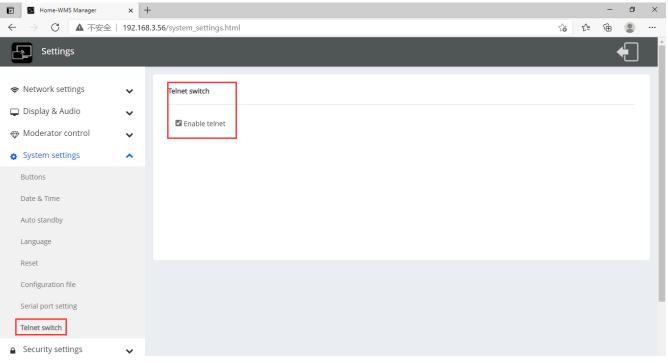
To configure telnet command and RS-232 command.

e	Home-WMS Manager	×	+							-	٥	\times
\leftarrow	→ C ▲ 不安全	192.16	8.3.56/system_	settings.html				τõ	£'≡	Ē	۲	
٢	Settings										•	<u>^</u>
	· Network settings Display & Audio	* *	Serial po	rt Setting								1
	Moderator control	*						1				I
0	System settings	^		Enable serial	Enable	•	Serial port function	Uart function as 👻				
	Buttons Date & Time			Baud rate	115200	•	Data bits	Uart function as telnet Uart function commander				I
	Auto standby			Parity Flow control	NONE	•	Stop bits	1 •				I
	Language Reset							Confirm settings				I
[Configuration file Serial port setting											
	Telnet switch											
	Security settings	~										Ŧ

🕑 🖪 Home-WMS Manager	× +	-							-	٥	×
← → C ▲ 不安全	192.168	3.3.56/system_settings.html					٢ô	5∕≡	Ē		
Settings										•	
🗢 Network settings	~	Serial port Setting									
📮 Display & Audio	~										
🕁 Moderator control	~										
System settings	^	Enable serial	Enable	•	Serial port function	Uart function as 👻					I
Buttons		Baud rate	115200	•	Data bits	8 •					
Date & Time		Parity	1800 2400	^	Stop bits	1 •					
Auto standby		Flow control	4800								
Language			14400	L		Confirm settings					
Reset			19200	ь							
Configuration file			38400 56000								
Serial port setting			57600								
Telnet switch			115200 230400	J							
Security settings	~		460800	•							-

6.4.8 Telnet Switch

Telnet Switch, to enable or disable Telnet.



6.5 Security Settings

6.5.1 Security level

Home-WMS Manager	×	+					-	٥
→ C A T	安全 192.1	168.3.56/	/security_settings.html			Q 60	€ @	
Settings								ſ
	_							
Network settings	~	Security	y level					
Display & Audio	~							
Moderator control	~	#	Security item	Ievel 1	O level 2	O level 3	○ Customize	
System settings	~	1	Dynamic password change	\checkmark				
		2	Encryption of Data:Proprietary	\checkmark				
Security settings	^	3	"password changing" deletes the data of the base unit	\checkmark				
Security level		4	"Airplay" PIN code					
Login password		5	Telnet password					
Connection password		6	Encryption of Data: AES-256 Bit + RSA-1024Bit					
Firmware upgrade	~	7	Password changing deletes and removes the data of the base unit					
Other settings	~	8	"Miracast" PIN code					
About device	~	9	Disable the android APK					
About device	•	10	Disable "Airplay"					
		11	Disable "Firmware Degrade"					
		12	Disable Miracast					
		13	Disable Win/Mac APP					

Based on user requirements, three different security levels can be set in the menu of WirelessMedia, to satisfy different security requirements, according to different security sensitive environments or security policies. A security level is a predefined set of settings. Click on the corresponding entry in the menu if you want to adjust the respective security features. The default setting is level 1.

Level 1: normal safety; keeps the security in normal and daily usage for any organization, such like classroom, regular meeting room etc.

Level 2: higher security; provides increased security for companies, organizations, government agencies, etc., through powerful encryption of audio and video data; other security features include limiting the transmission of "AirPlay" by introducing a password.

Level 3: is used for strict security requirements of companies, organizations, authorities, banks. This level contains all "Level 2" security measures; in addition, all mobile applications, such as the Android APP as well as AirPlay are blocked, the web browser (WebUI) of the Base-unit is blocked. In addition, the downgrade of the firmware is not possible.

The setting of the security level is displayed in the Home screen, click the icon for more information.

6.5.2 Login Password

Change admin password for entering setting menu on webserver. Default password, or after a RESET, is "admin". You can change the password as you like. You can also deactivate the password entry, set the appropriate checkmark and "Confirm settings".

checkinanta et		sectings .							
Home-WMS Manager	× +	F					-	٥	×
← → C ▲ 不安全	192.168	3.3.56/security_settings.h	tml		۲0	হ^≣	Ē		
Settings								€]
 Retwork settings □ Display & Audio ⊕ Moderator control □ Control 	* * *	Password setting Current password		Cancel password					
System settingsSecurity settings	× ^	New password Confirm new passwor		Enter new password					
Security level Login password Connection password		Comminine passwor	u	Confirm new password Confirm settings					
 ▲ Firmware upgrade ⊕ Other settings ● About device 	* * *								

6.5.3 Connection password

Two type of password format can be chosen to show on home screen.

- 4-digits password, beginning with 0000
- 8-digits password

Home-WMS Manager	× +	-				-	٥	×
← → C ▲ 不安全	192.168	3.3.56/security_settings.html		τõ	ל≦	Ē		
Settings							€]
🗢 Network settings	~	Connection Password						
🖵 Display & Audio	~	Connection password	4-digits password,begining with 0000					
🕀 Moderator control	~	Connection password	4-digits password, begining with 0000					
System settings	~		8-digits password, beginning with 0000					
Security settings	^							
Security level								
Login password								
Connection password								
🛓 Firmware upgrade	~							
\oplus Other settings	~							
About device	~							

6.6 Firmware upgrade

6.6.1 Firmware Update

To upload local updating files to upgrade base unit.

e	Home-WMS Manager	×	+			-	٥	×
\leftarrow	→ C ▲ 不安全	192.	168.3.56/firmware_update.html	٢ô	£^≡	Ē		
Ľ	Settings						ŧ]
(î;	Network settings	~	Firmware update					
	Display & Audio	~	The firmware file is in * .img format					
	Moderator control	~	Select firmware					
	System settings Security settings	~						
	Firmware upgrade	~						
[Firmware update							
\Leftrightarrow	Other settings	~						
0	About device	~						

6.6.2 Automatic Upgrading

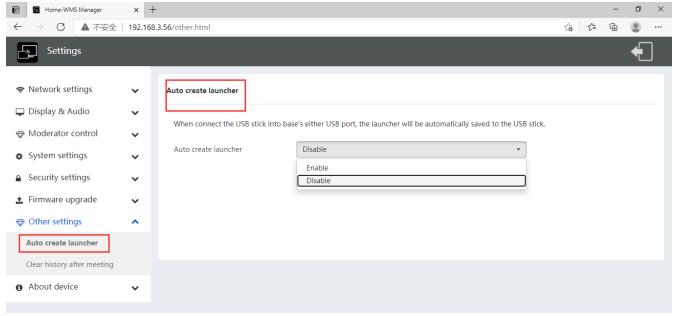
Tick to choose upgrading from OTA via Internet or from local files.

Home-WMS Manager	× +	•		-	٥	×
← → C ▲ 不安全	192.168	.3.56/firmware_update.html دُو	Ę	≚ (⊕		
Settings					ŧ]
🗢 Network settings	~	Automatic upgrading				
📮 Display & Audio	~					
Moderator control	~	Automatic upgrading				
System settings	~					
Security settings	~					
🟦 Firmware upgrade	^					
Firmware update						
Automatic upgrading						
Other settings	~					
About device	~					

6.7 Other settings

6.7.1 Auto create launcher

Determines, when using a USB memory at one USB-port of Base-unit, the Launcher program "WirelessMedia" will be copied automatically on USB memory. Enable or disable the corresponding box.



6.7.2 Clear history after meeting

Pictures, videos, music of mobile units will be stored in memory of Base-unit. This memory can optionally be erased, at the end of a meeting, when the dongle is pulled from the Laptop / PC.

Settings are:

Decide by User - a dialog appears, when dongle is pulled.

Never - storage space is automatically erased, when memory is filled for 90%

Always - memory is automatically deleted.

🕑 🗵 Home-WMS Manager	x +		-	٥	×
← → C ▲ 不安全 ·	192.168.3.56/other.html	ŝ	5≞ 🕀	۲	
Settings				€]
	clear history after meeting				
	Clear history after meeting Always				
System settings	Decide by user: If choosing this optic system/display will pop up a warning Never Never Never Never: When all device connection of Always	dongle are disco	onnected fro	m base,	
 Security settings Firmware upgrade 	Always: When all device connection of base are disconnected, the system will automatically clear the histo	ory without warning) message.		
Other settings	^				
Auto create launcher Clear history after meeting					
 About device 	~				

6.8 About device

Check the firmware version of base unit and web server version.

Home-WMS Manager	×	+			- 0	×
← → C ▲ 不安全	192.16	58.3.56/about_device.html		ζ₀ ζ≡	۵	
Settings					ŧ	
🗢 Network settings	~	About device				
🖵 Display & Audio	~	Model name	WMS-40			
Moderator control	~	Firmware version	3.1.6C.40.A1039			
System settings	~	Web server version	1.21			
Security settings	~	Serial number of the base	1004000120191225000000047			
🛃 Firmware upgrade	~					
Other settings	~					
About device	^					
About device						

7. Updating WirelessMedia

An update of the firmware can be useful to take the advantage of new features of WirelessMedia or to fix known issues and bugs. WirelessMedia includes two methods of updating. Updating by USB stick and webserver.

After updating the Base-unit, always check, whether the other parts still fit together or should be updated also. There are **up to three different areas** for updating: Firmware **Base-unit**, Firmware **dongle** and **Launcher** for PC/Laptop or MAC "WirelessMedia.exe". All software is stored in Base-unit, to be transferred manually to different devices.

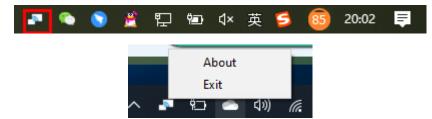
7.1 Check current firmware information

× + Ľ Home-WMS Manager C ▲ 不安全 | 192.168.3.56/about_device.html τ'n ք≡ Ē <u>_~</u>__ Settings Network settings About device 🖵 Display & Audio Model name WMS-40 Moderator control Firmware version 3.1.6C.40.A1039 System settings Web server version 1.21 Security settings 1004000120191225000000047 Serial number of the base 1 Firmware upgrade Other settings About device ~ About device

Base-unit: webserver "console" menu / About device.

Windows OS:

Dongle/Launcher: firmware version can be visual in the ""WirelessMedia".exe" program icon in windows status bar by right-clicking the ""WirelessMedia"" icon and select "About", as shown below.



Click "About" to check dongle and launcher program version.

MAC OSX:

Dongle/Launcher: firmware version can be visual in the ""WirelessMedia".app" program icon in MAC OSX status bar, by clicking the ""WirelessMedia"" icon and select "About", as shown below.

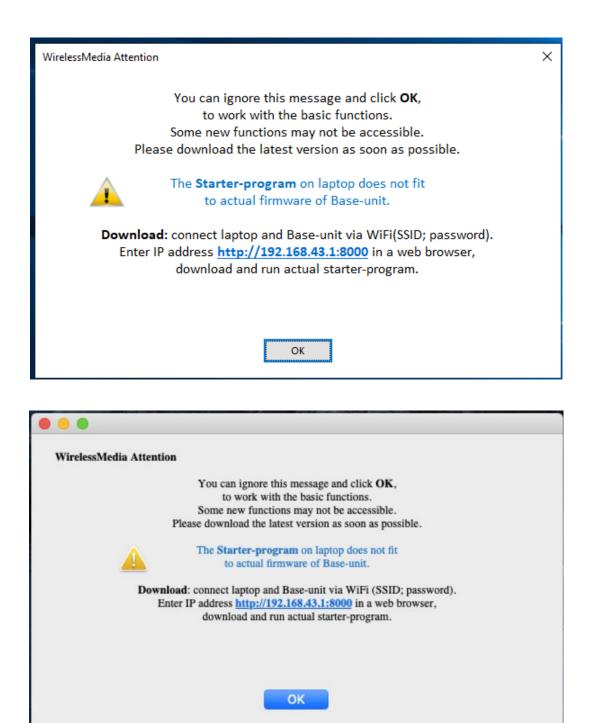
e 9 # \$	▲))	79% 🔳	5	Wed 21:2	25 Q	e 🔁
					•	
				🔁 🤶 🗣	100% 🔳	
				About	1.00	
				Quit		

Click "About" to check dongle and launcher program.

About WirelessMedia
WirelessMedia: 8.7.5.5 (match with base unit)
Transmitter TOUCH Ver: 2.2.9C (match with base unit)
Base-unitVer: 3.0.6C.40.A1013
Copyright © 2018. WirelessMedia All Rights Resvered.
Οκ

Firmwares are NOT matching:

When dongle firmware or "Launcher" firmware are older version, or in other words dongle firmware or "Launcher" firmware doesn't match with the base unit version, it shows up ""WirelessMedia" ATTENTION" alert message box in the window OS or MAC OSX, as below.



When mismatching occurs, please do the following steps to update the firmwares, as indicates in the message box.

7.2 Upgrading firmware of base unit:

There are two ways to upgrade base unit as below.

First method to upgrade base unit as below:

The base unit device can be updated through a USB drive as below.

1. Copy the updating file "update.img" to the root directory of the USB drive.



update.img

Connect the USB drive to either USB port of Base-unit.
 Note: The USB port can only support maximum 500ma. Please use a small power U-disk as upgrading USB drive.

WirelessMedia recognizes the "**update.img**"-file at a plugged-in USB stick automatically and starts the "Full Update" procedure.

You can plug out the USB stick within 10 seconds to stop the update.

Attention !

Do not disconnect power during upgrading progress. Or, the unit firmware will be corrupted.

3. The upgrading progress displays as shown below, and the unit will reboot automatically after complete the updating 100%, as shown below.



Note: During the update, screen can be temporary dark. If the progress bar stops at 1%, use another USB stick, it may be defective. The display device shows the Home Screen after normal boot of the device, you can disconnect USB-drive.

4. Perform "Factory Reset" when the firmware update is complete?

Only when the associated "Release notes" are requiring an additional **"Factory Reset**", perform it via the menu "**System settings"** / "**Reset**" on websever console menu.

All data of configuration will be lost. So that you do not have to re-configure all data in an elaborate process, therefore note all settings within the Sub-menus before doing Factory Reset.

5. The update of Base-unit is finished.

Second method to upgrade base unit as below:

Base unit can be upgrade via webserver console menu as below:

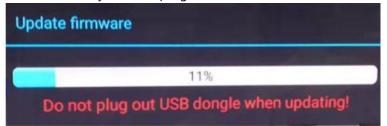
Select a "update.img" file to upgrade to target version.

₪	Home-WMS Manager	×	+		-	- 0	×
\leftarrow	→ C ▲ 不安全	192.1	68.3.56/firmware_update.html	٤	Ē		
Ľ	Settings					÷]
	Network settings	~	Firmware update				
	Display & Audio	~	The firmware file is in * .img format				
\Diamond	Moderator control	~	Select firmware				
¢	System settings	~					
	Security settings	~					
1	Firmware upgrade	^					
L	Firmware update Automatic upgrading						
\Leftrightarrow	Other settings	~					
0	About device	~					

7.3 Upgrading and Pairing of Dongle:

 Plug the dongle to either of the two USB port of BYOD-14HC to be updated. It will automatically show up a message to indicate if the installed firmware of dongle is older, and needs to be upgraded.
 Note: Type C dongle needs to plug into Type-C port of front base unit to upgrade.

The upgrading progress starts automatically with the progress bar, as shown below.



2. "Pairing" to the Base-unit is done automatically afterwards, it shows as below



3. Plug out the dongle. Now, the upgrading progress is finished. Update all other dongles accordingly.

7.4 Upgrading Launcher:

Attention: The USB driver should be FAT 32 format not NTSC format.

After upgrading **Base unit** and **Dongle**, the launcher should be written with the actual launcher program for Windows, MAC and Apps for mobile-units.

There are 2 methods to update the USB stick/launcher, including:

Method 1: Via USB stick

1. Connect the USB drive to either USB port of base unit.



3. The Launcher "WirelessMedia" is written to the USB-stick, an OSD-windows shows the progress. When ready, unplug the USB-stick.

Method 2: Via WIFI

1. Connect PC to BYOD-14HC's SSID and enter password in homepage, see pictures as below:



- 2. Open Browser and enter WiFi IP: 192.168.43.1:8000.
- 3. Click to enter "Launcher" download webpage. Shown as below:

Downloads	ZMW	-9095	Engli
WirelessMedia for Android Please click to download the Android APK	WirelessMedia for Windows WirelessMedia Desktop client software for best performance	WirelessMedia-Pro for Windows WirelessMedia Desktop client software for best safety	WirelessMedia for MacOS X Please click to download the MAC APP
User manual Please click to download user manual			

- 4. Choose and click Windows or MAC launcher to download.
- 5. Find the "Launcher" program in PC and copy to PC desktop. (Recommend to copy to desktop for quick run.)
- 6. Run the program to start sharing.

Two methods to execute the launcher for first time user

- Copy the program to PC, and click to execute it to share PC screen.
- Connect dongle to PC; click to run program from the USB drive and share PC screen.

For both two methods, user don't need repeat the above steps since the second time plug-in.

The Launcher program "**WirelessMedia for Windows**" and "**WirelessMedia Pro for Windows**" includes by default an additional virtual driver "ExtendedDesktop" to optionally install the Windows 10 Extended Desktop functionality, if they are is needed. This may require admin rights.

7.5 Clean left files of older versions of Launcher program in Lap-top

There are some old version "WirelessMedia" files left in the lap-top, which may influence the performance of the newer "WirelessMedia" program. Currently, it needs to manually clear them, before start to use the newly updated "WirelessMedia" firmwares.

Steps:

1. Find the place where the left "WirelessMedia" programs are stored. Normally, these files are stored in the C:\Users***(user name)\AppData\Local\"WirelessMedia", as shown below.

🔶 🚽 🕆 📙 > 此电脑 > OS (C:) > 用户 > lydia > AppData > Local > WirelessMedia						
、 4. 林冲冷问	名称 ^	修改日期	类型	大小		
> 📌 快速访问	🔊 StartLinkC3	2019-12-10 16:12	快捷方式	1 KB		
> 😻 Dropbox	🗟 WirelessMediaAutoServiceC3.exe	2019-12-10 16:12	应用程序	1,600 KB		
> 🐔 OneDrive	🐼 WirelessMediaMain.exe	2019-12-10 16:12	应用程序	10,919 KB		
✔ 🔜 此由脑						

2. If the "*.service" "*.serviceC3" can't be removed and shows up an alert message as below, please use combined hot key to open the task manager by pressing "**Ctrl+Alt+Delete**", as shown below.



№ 任务管理器 文件(E) 选项(Q) 查看(V)			-				
进程 性能 应用历史记录 启动 用户 详细信息 服务							
^		18%	89%	3% 1			
名称	状态	CPU	内存	磁盘			
💽 Windows 音频设备图形隔离		0%	4.1 MB	0 MB/秒 ^			
💽 WirelessMedia AutoServiceC3 (32 位)		0%	1.2 MB	0 MB/秒			
🇃 WMI Provider Host		0%	3.6 MB	0 MB/秒			
🗃 WMI Provider Host		0%	28.9 MB	0 MB/秒			
🗃 WMI Provider Host		0%	7.9 MB	0 MB/秒			

3. Right-Click on the "*.service" or "*.serviceC3", for example right-click on "WirelessMediaAutoServiceC3.exe"as shown below, and click to End Process Tree.

- 4. Check again the task manager, to be sure there is no more any "WirelessMedia" programs still running in the task manager. And check again to be sure there is no more any "WirelessMedia" in the C:\Users***(userame)\AppData\Local\"WirelessMedia".
- 5. Execute the actual version of Launcher program.

Upgrading progress is completed.

8. WIFI Recommendation Setting

8.1 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

8.2 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.

9. 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"	WIFI password of base unit	Reconnect the mobile by entering
application in Android device or	changed when android or IOS	password showed on home screen.
Airplay on IOS device, and it can't	device is connected to the WIFI of	
find base unit device.	base unit.	
The image quality on the main	The quality or length of the cable	• Replace the cable
display screen is not good.	between the Base Unit and the	• Use another cable.
	display or the connection between	• Check the cable to be fasten
	these two.	properly.
	Improper resolution for the main	• Change the resolution on the
	screen.	Setting configuration. And
	WMB1 could output	match it to the native
	3840x2160_60Hz,	resolution of the main screen.
	3840x2160_50Hz	See chapter 7.
	3840x2160_30Hz,	
	1920x1080_60Hz,	
	1920x1080_50Hz,	
	1920x1080_30Hz	
Bad wireless connection. The	Wi-Fi problems.	 Use a Wi-FI scanner to find a
connection between the	• Interference in the radio	free wireless frequency and
transmitter and the base unit is not	channel.	channel and select it via the
stable.	• Overload in the radio channel.	setting configuration.
		 Regularly check the RF
	"WirelessMedia" does not	environment if there are
	automatically jump to other	frequently changes in Wi-Fi
	channels when there are changes	networks in your environment.
	in the RF environment.	
	Low signal strength:	• Put the base unit closer to the
	 Metal cabinets, walls, 	main screen.
	construction elements,can	• Change the orientation of the
	cause reflections deteriorating	antennas at the rear panel of
	the wireless signal.	base unit to the transmitter
		direction.
	Obstacles between dongles	• Remove or limit as much as
	and Base unit cause lowering	possible all obstructions
	of the wireless strength and	between the transmitters and
	quality.	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	 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. 	There are 2 possibilities to load the Launcher program, see chapter 7.4. 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.
	 Bad connection at USB port on the lap-top 	 Reconnect to the USB port Try another USB port Reboot the lap-top
	 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. 	If possible, change the USB port policy on the lap-top
Low video performance (sharpness, audio and video dropouts, video stream is jerking,)	 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 energy. The transmission of HD video requires a certain amount of CPU power to guarantee the optimum quality of the transmission. 	 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. Update driver of graphic-card. End low power mode at laptop.
Video is not shown on screen	The content use HDCP	 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	• Insert the display cable to the
	correctly connected.	display and the Base-unit.
	The displays is switched off.	• Switch on the display.
	The Base-unit is in standby mode,	• Power off and on again or
	"Power-LED" is flashing at Base	insert a dongle into laptop.
	unit.	
	Power-supply is missed.	
When using window 7 the	WirelessMedia uses resource from	• It's safe to ignore this
following message about the	the GPU. In combination with	message and choose "Keep
Window Aero color scheme	other programs which do so,	the current color scheme."
apprears "Windows has detected	Window 7 sometimes shows this	
your computer's performance is	message suggesting to disable	
slow. This could because these are	Aero to improve the performance	
not enough resources to run the	of lap-top.	
windows Aero color scheme. To		
improve "		
Your content is removed from the	Connection to the Base Unit is lost.	WirelessMedia tries to restore the
display and the LEDs on the button		connection automatically. If it fails,
are blinking		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	Insect the display cable to the
	connected	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	Wrong IP address	IP address is not within LAN range
Unit		DHCP is not enabled.
No Wi-Fi connection between	Wrong Wi-Fi frequency	Check mobile device to select the
mobile device with Base Unit		correct 2.4GHz or 5GHz
	Wrong SSID and password	Enter the correct SSID
No audio when transmit local file	Unsupportive audio format,	If possible, reformat it to the other
to Base Unit	including Dolby MS11, DDCO	audio format, like DD, DD+, HE-
	DTSLBR, DTSE, DTSNeoUltra, SRS-	AAC, DTS DMP, WMA, DRA, COOK
	THEATERSOUND,	
	DTS_StudioSound3D, DTS_HD,	
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
	1	108 / 110

		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" Launcehr 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.	 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	Operation System Requirement	• To use AirPlay, you must
Macbook/Iphone/iPad.	Mac OS 10.9	connect the iOS device to the
	IOS 8.0 and later (WirelessMedia	Wi-Fi of WireleeMedia and
	app)	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:	Reduce "Quality! In settings of
	a.) Mirroring: 1: 1 copy of the	Youtube, for example from
	screen	"Automatic" to 720p.
	b.) Streaming: Videos (Internet,	
	Youtube); the image will not be	
	displayed on the iOS device.	
	=> picture is jerky	
Can't work with Android device?	Operation System Requirement	Update to the later OS
	Android 2.3 and later	
	(WirelessMedia app)	