



Zenty | Professional A/V Solution Provider

User Manual [v1.0]



Quick Share Wireless Presentation System

ZT-QS200 (Receiver) | ZT-QSH10 (HDMI Dongle) | ZT-QSC10 (USB-C Dongle)



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Table of Contents

1. Introduction	6
2. Feature List	6
3. Hardware Components	7
4. Accessories List	8
5. Specifications	8
6. Panel Layout	9
6.1 Hardware Interface	9
6.1.1 ZT-QS200 Front Panel	9
6.1.2 ZT-QS200 Rear Panel	11
6.1.3 Factory Reset	12
6.1.4 Dongle Front Panel	14
6.2 Software Interface	16
6.2.1 Home Screen	16
7. Installation	17
7.1 Installation Methods for Base Unit	18
7.2 Wiring Diagram	19
7.3 Power Connection	20
7.4 Video Connection	20
7.5 Audio Connection	21
7.6 LAN Connection	22
7.7 Usage of USB Device	23
8. Connection Methods	24
8.1 Mobile Device: Wireless Connection	24
8.1.1 Enable Portable Hotspot	24

8.1.2 Enable LAN Connection:.....	25
8.2 Pairing Transmitter with Base Unit.....	25
8.3 Mirroring.....	27
8.3.1 Microsoft Windows PC/Laptop with Dongle	27
8.3.2 Microsoft Windows PC/Laptop with Application	28
8.3.3 Operations for Microsoft Windows PC/Laptop – Extended Screen.....	31
8.3.4 Mac OS PC/Laptop with Dongle.....	33
8.3.5 Mac OS PC/Laptop with Application	35
8.3.6 Operations for Apple Mac OS, MacBook – Extended Screen	37
8.3.7 Quad View Mirroring.....	38
8.3.8 Mobile Devices.....	39
8.3.9 Miracast on Android Devices and Win10 PC/Laptop.....	40
8.3.10 Chromecast on PC.....	43
8.4 Preview Window.....	44
8.5 Whiteboard & Annotation.....	46
8.5.1 Whiteboard.....	47
8.5.2 Annotation.....	48
9. Web Setting Management Configuration	49
9.1 Network Settings.....	51
9.1.1 Wireless Network.....	51
9.1.1.1 Wireless Network Configuration Wizard.....	52
9.1.1.2 Wireless Direct Mode	53
9.1.1.3 Wireless Infrastructure Mode	55
9.1.1.4 LAN Infrastructure Mode	58
9.1.2 Ethernet.....	59
9.1.3 Auto Change Password.....	60

9.2 Display & Audio	61
9.2.1 HDMI.....	61
9.2.2 Audio	63
9.2.3 Airplay Screen Quality.....	64
9.2.4 Screen Display ID.....	64
9.2.5 Home Screen Background Image	65
9.3 Moderator Control.....	65
9.3.1 Moderator Control.....	65
9.4 System Settings.....	68
9.4.1 Devices.....	68
9.4.2 Date & Time	69
9.4.3 Auto Standby	70
9.4.4 Language.....	70
9.4.5 Reset.....	71
9.4.6 Configuration File	71
9.4.7 Series Port Setting.....	72
9.4.8 Telnet Switch.....	73
9.5 Security Settings	73
9.5.1 Security Level	73
9.5.2 Login Password.....	74
9.5.3 Connection Password.....	75
9.6 Firmware Upgrade	75
9.6.1 Firmware Upgrade	75
9.6.2 Automatic Upgrading.....	75
9.7 Other Settings.....	76

9.7.1 Auto Create Launcher.....	76
9.7.2 Clear History After Meeting.....	76
9.8 About Device	77
10. Updating Zenty QuickShare	77
10.1 Check Current Firmware Information.....	78
10.2 Upgrading Firmware of Base Unit.....	80
10.3 Upgrading and Pairing of Dongle.....	82
10.4 Upgrading Launcher.....	83
10.5 Clean Left Files of Older Versions of Launcher Program in Laptop	85
11. WiFi Recommendation Setting	85
11.1 Check the WiFi Config on Base Unit	86
11.2 Check the WiFi RSSI on Dongle	86
12. Troubleshooting.....	86
13. Maintenance	91
14. Warranty	91
15. Mail-In Service	91
16. Limited Warranty Limits and Exclusions	91

1. Introduction

ZT-QS200 is a wireless presentation series, aiming to replace the legacy Pro-AV switcher with not only lesser 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 also helps with effectively running conference and training sessions and provides a better collaborative experience between in-room and remote participants

2. Feature List

ZT-QS200:

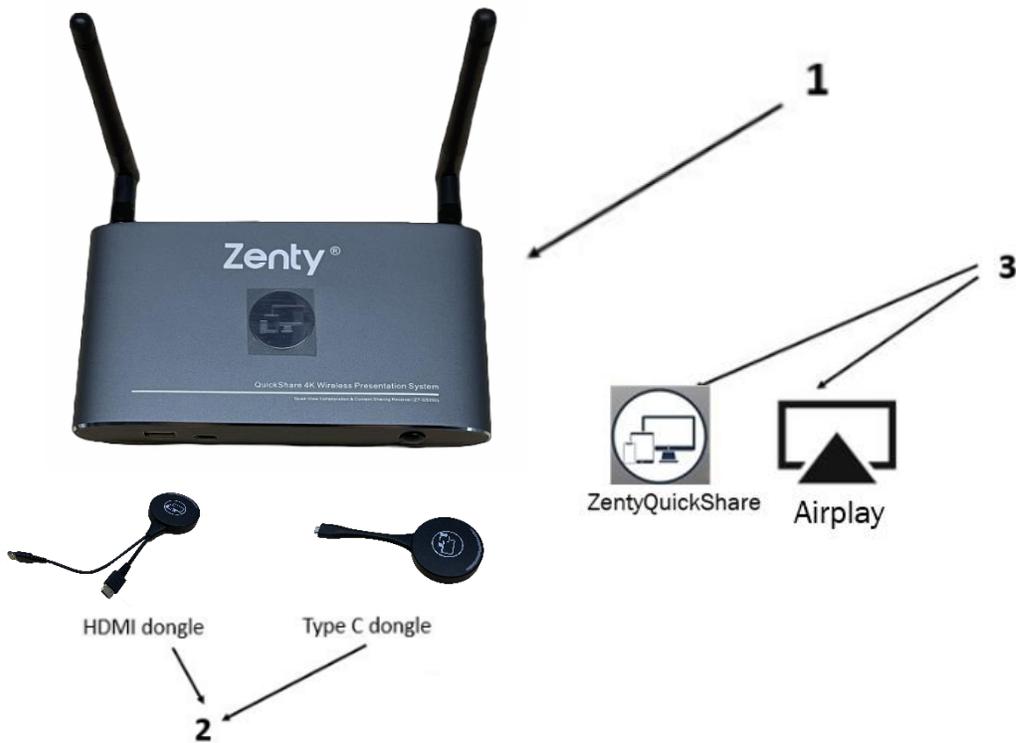
- Pure wireless presentation experience with bring your own device
- Wireless content input up to 1080P. HDMI 2.0 output
- Supports native wireless mirroring protocols like Airplay, Miracast, Chromecast
- Plug-n-play HDMI/Type-C/U disk dongles for wireless presentation
- Android, MAC and Windows APP for wireless presentation
- Supports 4 split screen view
- Supports 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
- Supports moderator mode with preview function
- Supports whiteboard and annotation
- Customizable home screen page
- Central management platform available

ZT-QSH10/ZT-QSC10:

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

3. Hardware Components

Zenty QuickShare Wireless Presentation System 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 Zenty QuickShare system contains one Base Unit ZT-QS200 and (optional) two Transmitters e.g., ZT-QSH10 / ZT-QSC10.



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

4. Accessories List

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

5. Specifications

Zenty ZT-QS200 Specifications	
HDMI Output	1 x HDMI 19-pin female connector
Video Output Resolution	3840x2160@60Hz / 3840x2160@30Hz / 1920x1080@60Hz
Format Compliance	HDMI 1.4 / HDMI 2.0
Video Capacity	1080P @ <60Hz Airplay for IOS devices 1080P @ <60Hz "Zenty QuickShare" app 1080P @ <60Hz for all show-me button
HDCP	HDCP 1.4 / HDCP 2.2
Analog Audio Output	1x 3.5mm PC audio female connector
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 Windows Simultaneously on Screen	≥4+14 (4 main windows+14 thumbnail window)
Number of Simultaneous 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
Dimensions (W x D x H)	Without Antenna: 6.49" x 3.74" x 0.96" With Antenna: 6.49" x 4.92" x 0.96"
Weight	0.4lbs
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)

6. Panel Layout

6.1 Hardware Interface

6.1.1 ZT-QS200 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 Functions

- Used for updating the software of the ZT-QS200.
- Pairing the dongle and base unit when the transmitter is plugged-in.
- 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 mirrored to the screen by plugging in the dongle.
- 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 mirrored to the screen by plugging in the dongle.
- 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.

6.1.2 ZT-QS200 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.
6	LAN Ethernet port 1	100Mbps. Connect an Ethernet cable between this jack and a LAN to connect ZT-QS200 to LAN.

7	LAN Ethernet port 2	1000Mbps. Connect an Ethernet cable between this jack and a LAN to connect ZT-QS200 to LAN. Supports POE.
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.

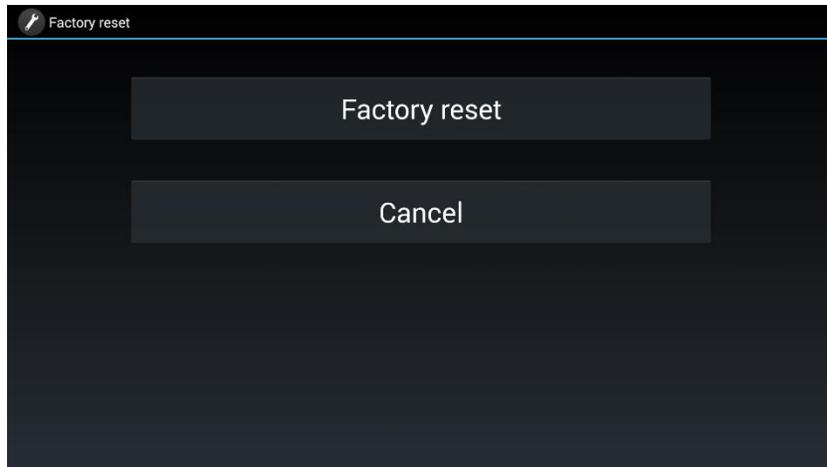
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- Creating or upgrading Launcher by clicking **Download** button when a USB stick is plugged in.

6.1.3 Factory Reset

- Start up the Base unit.
- When the *Home Screen* has 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 be lit to execute the reset.

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



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

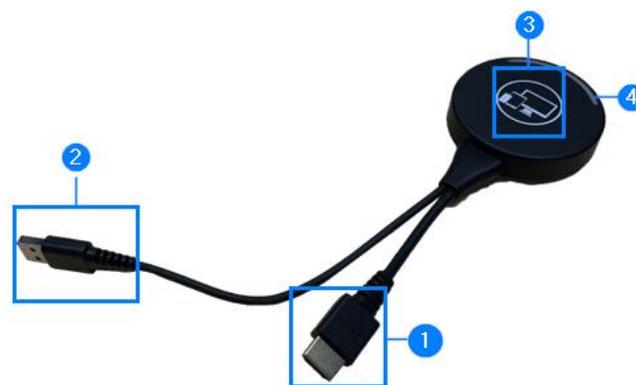
- Auto Standby: Never
- Language: English
- **Security Settings:**
 - Security Level: Security level
 - Connection Password: 4-digits password beginning with 0000
 - Change admin password: admin(default)
- **Other settings:**
 - Auto create launcher: Disabled
 - Clear history after meeting: Always

6.1.4 Dongle Front Panel

ZT-QSH10 / ZT-QSC10 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 dongle from the base unit.
- When LED indicator is blinking Green, it indicates 1) the dongle is plugged in the laptop and initializing or waiting for user to start the Zenty QuickShare 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 dongle is not plugged in the PC/Lap-top; 2) the dongle is defective; 3) the USB port or computer might be defective.



ID	Name	Description
1	HDMI connector	Using HDMI connector of the dongle 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 dongle 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 dongle

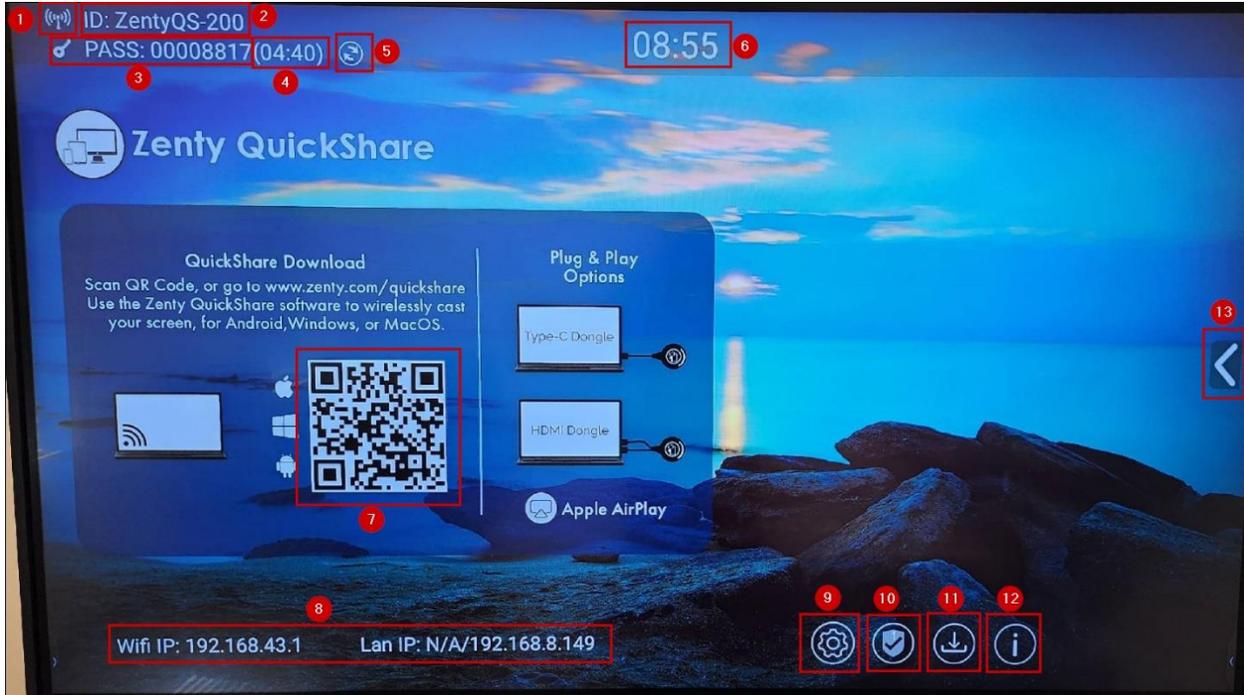


Note: ZT-QSC10 is full function Type-C interface with DP Alt mode inside which supports Audio and Video transmission. Thus, PC's type C connector also requires full function type C connector for mirroring screen.

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.
3	LED ring indicator	Indicates the status of the button.

6.2 Software Interface

6.2.1 Home Screen



<p>1. Wi-Fi Indicator</p>	<p>Wi-Fi direct mode: Internal access point is enabled. </p> <p>Wi-Fi infrastructure mode: "Client-Mode". Wi-Fi connection to router is established. Icon displays the current signal strength. </p> <p>Connection to a router failed. </p> <p>Wi-Fi is not available. </p> <p>LAN Infrastructure mode: access point is disable.</p>
<p>2. ID</p>	<p>Wi-Fi name or device name of the base unit access point</p>
<p>3. Pass</p>	<p>Wi-Fi password of base unit</p>
<p>4. Password timer</p>	<p>Only displayed when timer is active; time until the password is changed automatically.</p>

5. Refresh Wi-Fi password	Generate new password manually for securing your Wi-Fi network.
6. Time	Shows 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. QR Code	Scan the QR code to download the quickshare app.
8. Wi-Fi IP	Wi-Fi IP: address of the base unit in wireless LAN. LAN IP: address of base unit in LAN; “N/A” = no connection to network.
9. Settings	Access the settings of the base unit.
10. Security Level	Security level 1-3 display. The security features of the displayed level are shown in detail by click on the icon. The settings can only be changed by admin in the webserver console.
11. Download Button	Creating & upgrading launcher “ZentyQuickShare.exe” for Windows, MAC to USB stick.
12. Info	Shows status-bar (1) – (6) in Home screen showing/hiding.
13. Preview function of the screen contents of the participants with transmitter and mobile devices; White Board & Annotation function icon	Preview function of the screen contents of all connected transmitters and mobile devices; White board and Annotation function.

7. Installation

Overview:

- Installation methods for the Base unit
- Table mounting

- Wall mounting
- Recommendations about antenna placement and orientation
- ZT-QS200 Power Connection
- ZT-QS200 Video Connection
- ZT-QS200 Audio connection
- ZT-QS200 LAN connection
- About USB device connection
- Wiring Diagram

7.1 Installation Methods for Base Unit

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 6-8)

How to install

1. 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 Quick Share System box. The type of screws depends on the type of wall (stone, wood, plasterboard etc.) 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 ZT-QS200 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 etc. 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 Quick Share System users. As a result, the advised position for the antennas is at the side of the meeting room.

7.2 Wiring Diagram

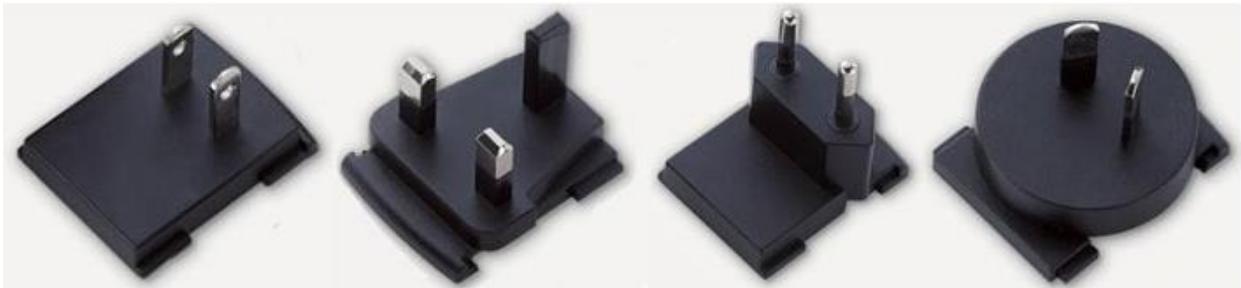


7.3 Power Connection

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. (ZT-QS200 LAN2 Port is support POE).

7.4 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 shows the home page.

7.5 Audio Connection

Zenty QuickShare Wireless System a 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 getting sent out

Zenty QuickShare 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 Zenty QuickShare setting tab.

PC/Laptop Sound

As default set, Zenty QuickShare will mute the internal speaker of PC/Laptop and route the audio to the base unit, after PC/Laptop 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/Laptop.

Note: If you want to keep the internal speaker of PC/Laptop 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.

7.6 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 ZT-QS200 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 ZT-QS200 than using the external power adapter.



The LAN connection can be used for:

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

7.7 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, Zenty QuickShare 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, double-click or click the right button of USB.

8. Connection Methods

8.1 Mobile Device: Wireless Connection

1. Download the application namely “Zenty QuickShare” in Android Google Play market for Android mobile device.
2. For IOS devices, use Airplay to mirror the desktop.
3. Zenty QuickShare provides two ways to discover the ZT-QS200 for mobile devices.
 - a) Portable hotspot, to connect the hotspot to connect the ZT-QS200.
 - b) LAN connection, to connect the ZT-QS200 and mobile both in LAN network, to discover and connect to ZT-QS200.

After Factory reset, Zenty QuickShare 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 Zenty QuickShare.

8.1.1 Enable Portable Hotspot

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



8.1.2 Enable LAN Connection:

Be sure the ZT-QS200 is connected to the Network. When Local IP shows an active IP address, such like 192.168.3.32, it indicates ZT-QS200 is successfully connected to the LAN and get an appointed IP address.



Note: When it shows “N/A”, means the ZT-QS200 is not connected to the LAN (Local Area Network) by CAT cable or it failed to get an available IP address by the corporation router.

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

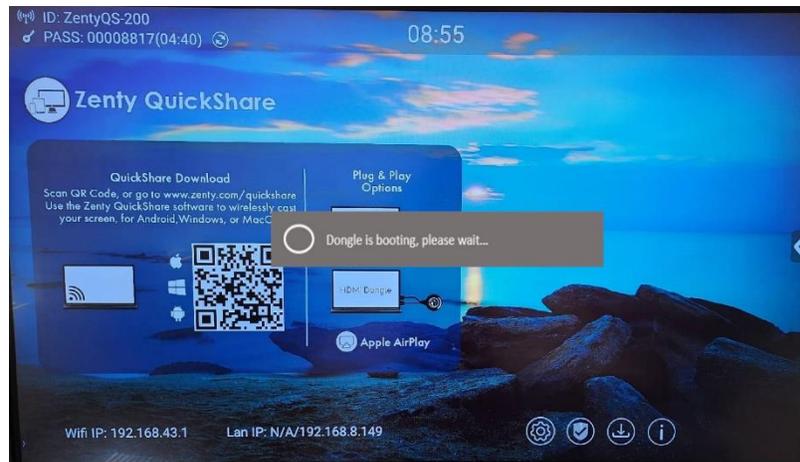
Default password for entering the main menu on webserver console is “admin”.

8.2 Pairing Transmitter with Base Unit

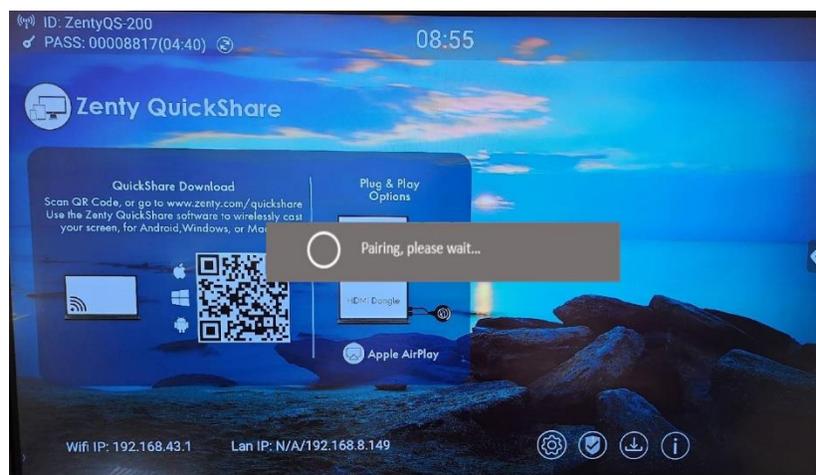
1. Connect ZT-QSH10 (HDMI dongle) to USB port, ZT-QSC10 (Type C dongle) to type C port, to pair all the transmitters with base unit. The home page displays as shown below:



2. When plugging in transmitters, the message table shows “Dongle is booting, please wait...” as shown below:



3. Then, the message table shows “Pairing, please wait...”



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.

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.

8.3 Mirroring

8.3.1 Microsoft Windows PC/Laptop with Dongle

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

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

ZT-QSH10 (HDMI dongle)

1. Plug the USB port of ZT-QSH10 to base unit to pair.
2. Plug the USB port and HDMI port of ZT-QSH10 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.



ZT-QSC10 (Type C dongle):

1. Plug the Type C port of ZT-QSC10 to base unit to pair.
2. Plug the Type C port of ZT-QSC10 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.



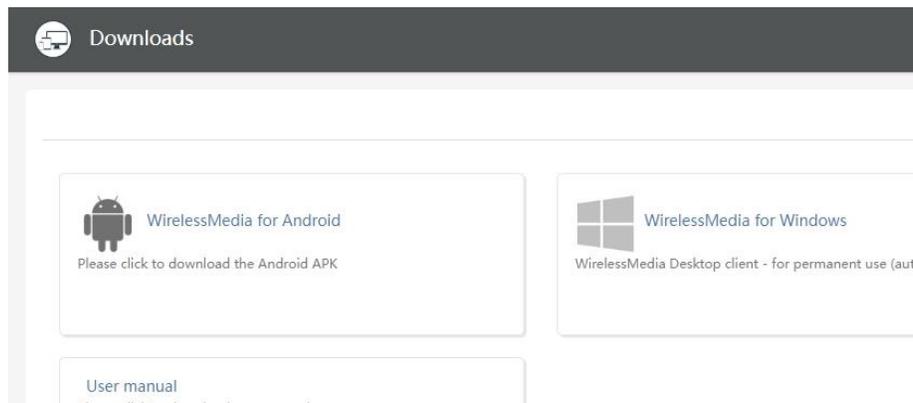
8.3.2 Microsoft Windows PC/Laptop with Application

For first time user, you have to copy the Launcher program, "ZentyQuickShare 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 "ZentyQuickShare -windows.exe" for windows PC/Lap-top, "ZentyQuickShare -macOS.app" for Macbook, "user manual" and "ZentyQuickShare.apk".



Or you could download the application from web page, by connecting PC with same network of base unit ZT-QS200.



2. Connect your laptop to Wi-Fi network displayed on the “Home” screen, or connect to the LAN on the network using a network cable.

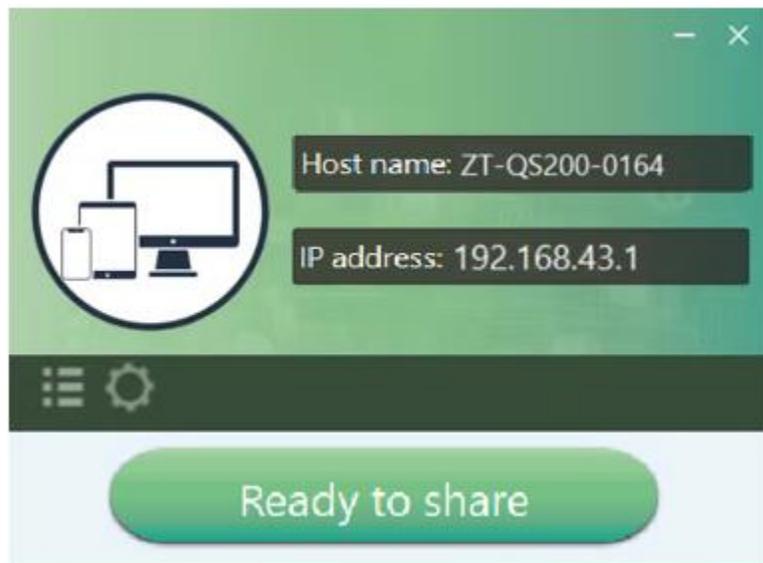
3. Double-click the " ZentyQuickShare-**windows.exe**" Launcher program . A list of all available “Zenty QuickShare” in the **same network** will be displayed, select which device you want to connect to. The connections are password protected (lock icon ).



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



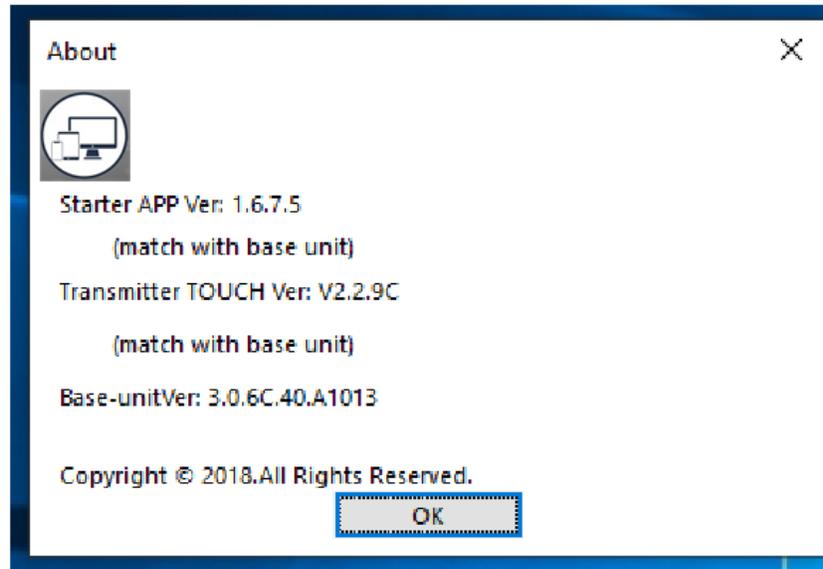
5. Click “Ready to share” in PC, when window color is static red, the screen is mirroring to the main screen.



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

Right click the Zenty QuickShare status icon  in Windows taskbar to open up the context-menu.

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

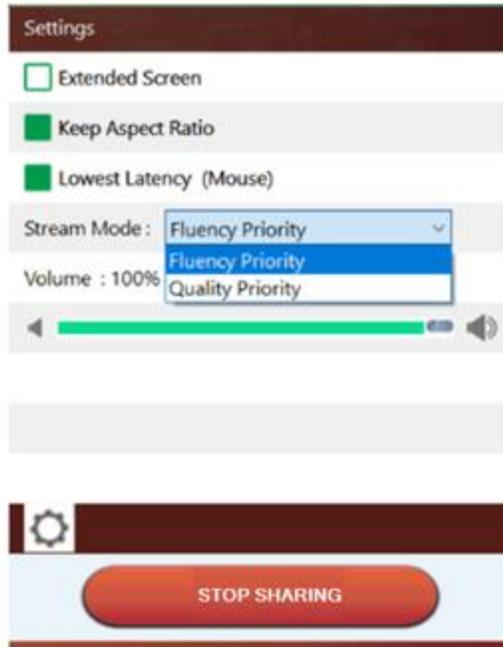


- **“Exit”**: End APP. Exiting the App completely.

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

8.3.3 Operations for Microsoft Windows PC/Laptop – Extended Screen

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



Extended Screen:

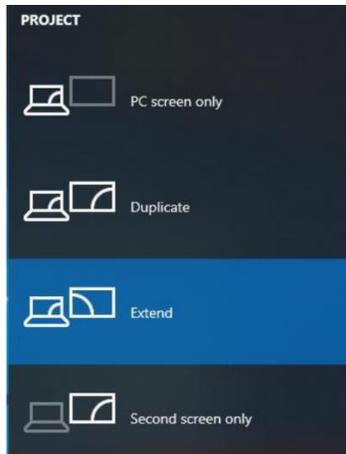
Transfers extended desktop of active source. (depending on your operating system, may require the installation of the virtual driver "ExtendedDisplay" for function with Windows 10).

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 "Zenty QuickShare" (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. 150ms). The movement of mouse-pointer is displayed very smooth with hardly noticeable delay (about 20ms) on the main screen, which significantly improves the operation of the application from the main screen. The look of the mouse pointer is every time, in all applications, like a typical cursor arrow.

Volume Slider:

- Adjust the playback volume of the main screen when presentation laptops is active.

8.3.4 Mac OS PC/Laptop with Dongle

At least operation system macOS 10.9 is required.

ZT-QSH10 (HDMI dongle)

1. Plug the USB port of ZT-QSH10 to base unit to pair.
2. Plug the USB port and HDMI port of ZT-QSH10 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.



ZT-QSC10 (Type C dongle):

1. Plug the Type C port of ZT-QSC10 to base unit to pair.
2. Plug the Type C port of ZT-QSC10 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.



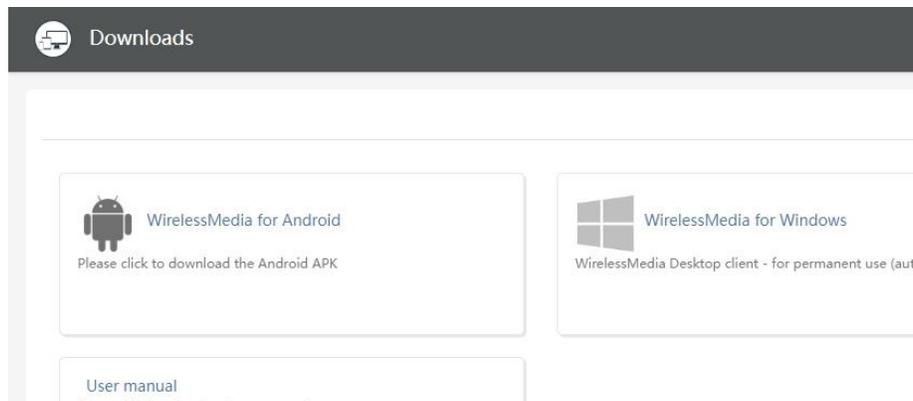
8.3.5 Mac OS PC/Laptop with Application

For first time user, you have to copy the Launcher program, "ZentyQuickShare 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 "ZentyQuickShare -windows.exe" for windows PC/Lap-top, "ZentyQuickShare -macOS.app" for Macbook, "user manual" and "ZentyQuickShare.apk".



Or you could download the application from web page, by connecting Macbook with same network of base unit ZT-QS200.



2. Connect your Mac to Wi-Fi network displayed on the Home screen, or connect to the LAN on the network using a network cable.

3. Double-click the " ZentyQuickShare for Mac" Launcher program  a list of all available "Zenty QuickShare" in the **same network** will be displayed, select which device you want to connect to. The connections are password protected (lock icon ).

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

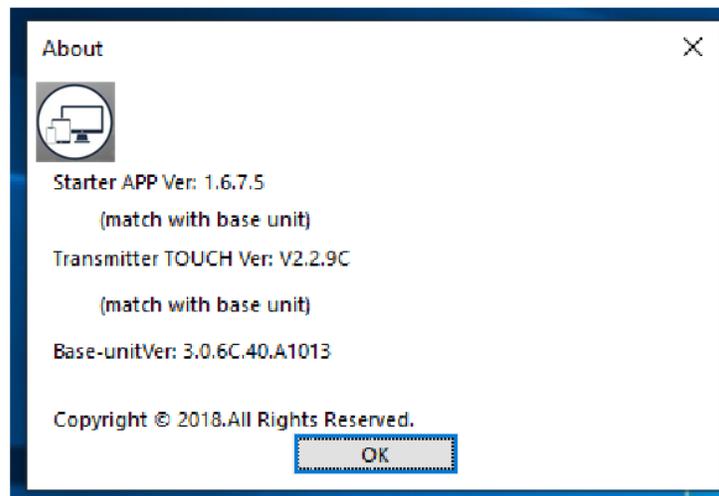
5. Click the visual button “Ready to share” in Mac, when window color is static red, the desktop is mirroring to the main screen.



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

Right click the Zenty QuickShare 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.

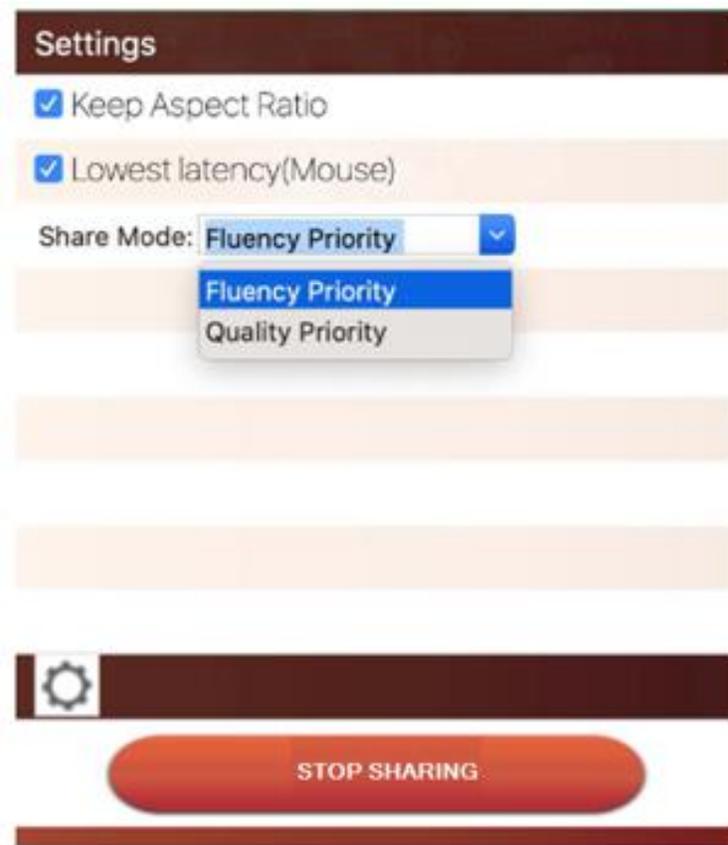


“Exit”: End APP. Exiting the App completely.

If you click the “close” in the menu bar of the app, the app in the top menu-bar is only minimized and can be recalled again from the top menu-bar at any time.

8.3.6 Operations for Apple Mac OS, MacBook – Extended Screen

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



Extended Screen:

Transmits the Extended desktop (“Use a Separate Display”) only via AirPlay, when activated for Display on Zenty QuickShare.

Options:

Keep Aspect Ratio:

Keep the original aspect ratio to display on the main screen.

Lowest Latency (Mouse):

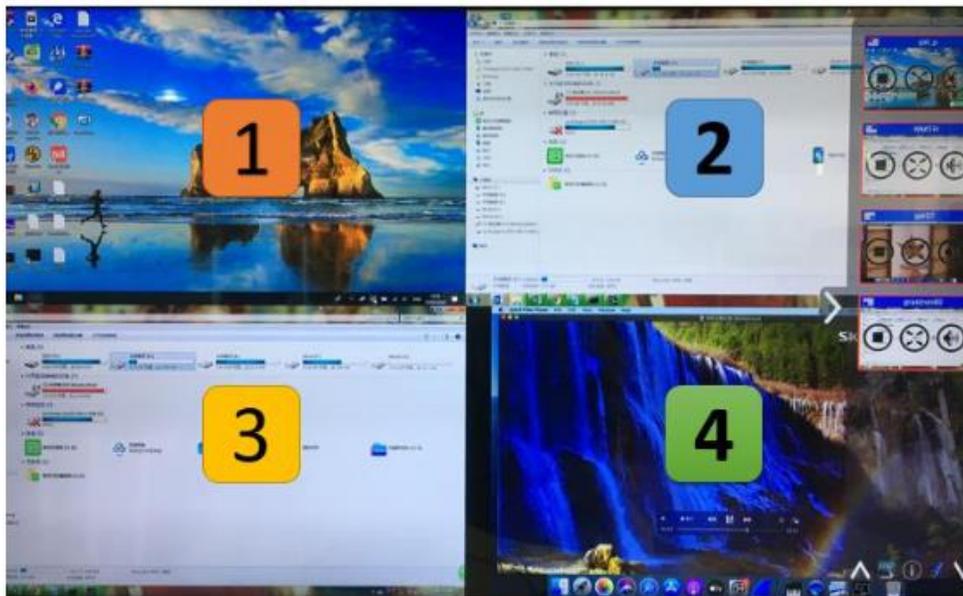
The setting is applied individually for this laptop only. The shape of mouse-pointer is equal the shape in application. There may be a small delay in movement of the cursor (approx. 150 ms). The movement of mouse-pointer is displayed very smooth with hardly noticeable delay (about 20 ms) on the main 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.

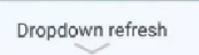
8.3.7 Quad View Mirroring

ZT-QS200 base unit can mirror 4 sources onto main display simultaneously, which supports PC/Laptop and mobile device.



8.3.8 Mobile Devices

Sharing on Android devices

1. Open the “ZentyQuickShare” application.
2. Connect your mobile device to one of the displayed Wi-Fi networks.
3. Open the “ZentyQuickShare” application in your mobile device, and you will see the Home Page of “Zenty QuickShare”. and click the device list refresh button  for Android.
4. Select the base unit you want to connect, enter password and mirror.
5. After completing the pairing, it shows OSD “***” on the home page. For example, if we connect it by a HUAWEI-PLA-ALOO, it shows a “HUAWEI-PAR-ALOO”.
6. Now you can mirror your desktop of your mobile.
7. Click again the button “Share Screen” to stop mirroring.

Notes:

- Click the connected device name to check the base unit status and base unit firmware version.
- Click “Fullscreen” to be full screen in the main screen when more than one signal is connected and shared.
- Click the upper right corner icon, check the “Zenty QuickShare” 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 ZT-QS200. on your Apple device and select the IOS devices, activate the control center. Click the Airplay icon



on your Apple device and select target ZT-QS200 to start mirroring through the ZT-QS200 to the main screen.

It will show OSD on home screen after cc



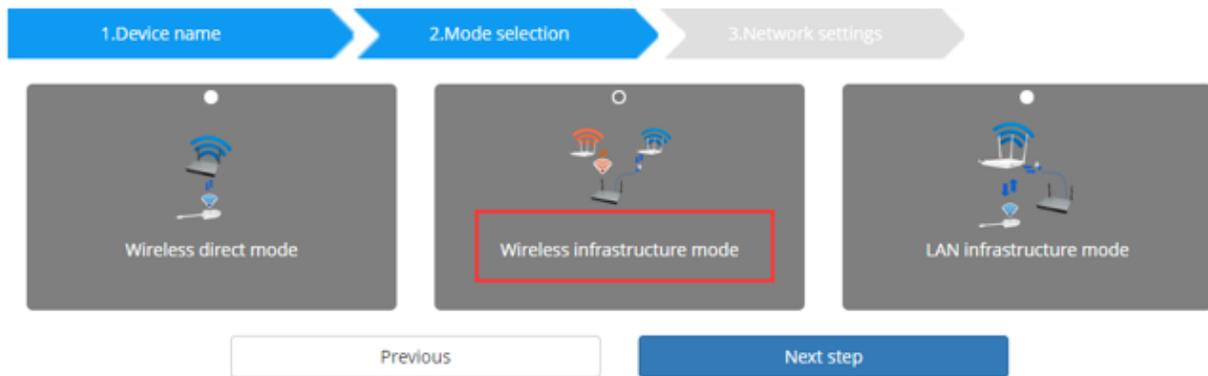
“XXXX”S iPhone

8.3.9 Miracast on Android Devices and Win10 PC/Laptop

Note: Only under “wireless infrastructure mode”, the Miracast function is available.

While if needs to be supported in all three wireless modes, user needs to install an extra wireless USB adapter (WiFi dongle) to support this function.

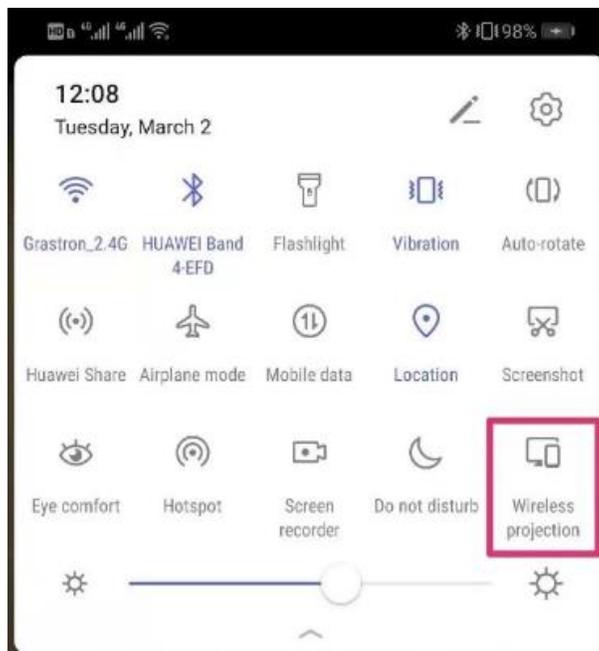
Wireless network



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.



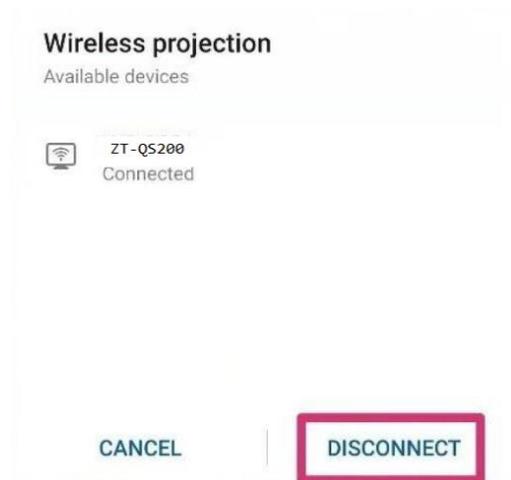
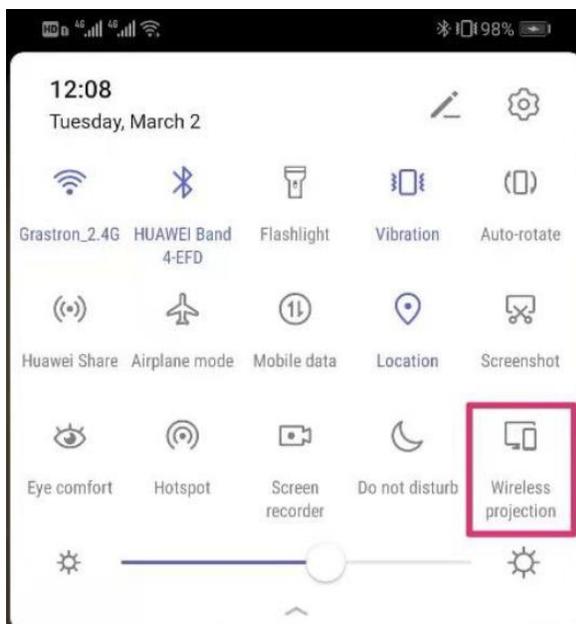
3. It will pop out the wireless projection window, find the proper base unit ZT-QS200 in the available list to connect.

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 ZT-QS200 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.



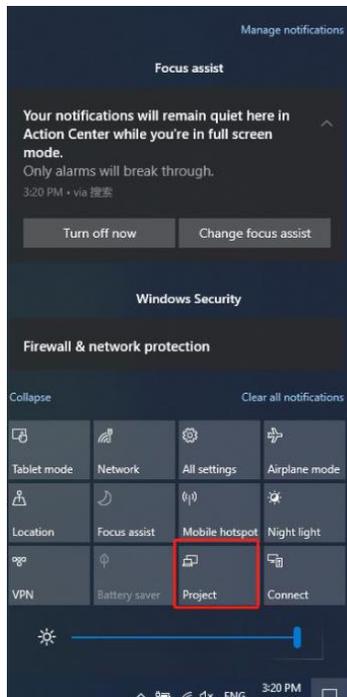
WIN10 PC Miracast

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.

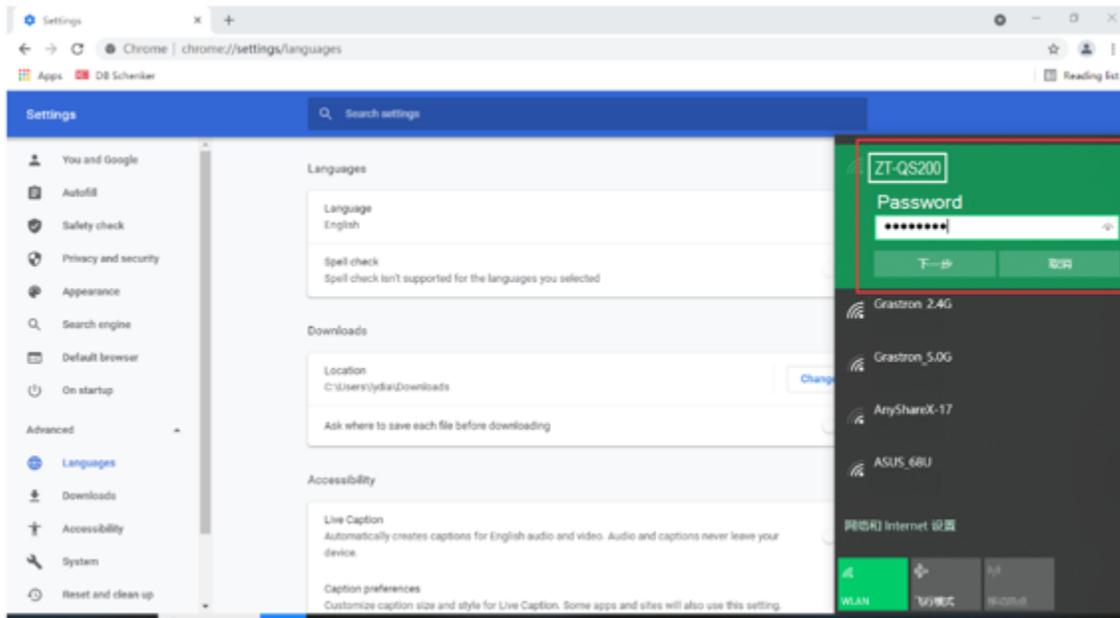
Note: under Security Level 1 mode, there is no need to enter password to connect. Under Security level 2 and Security level 3 mode, it will need to enter password on ZT-QS200 home screen to connect and mirror.



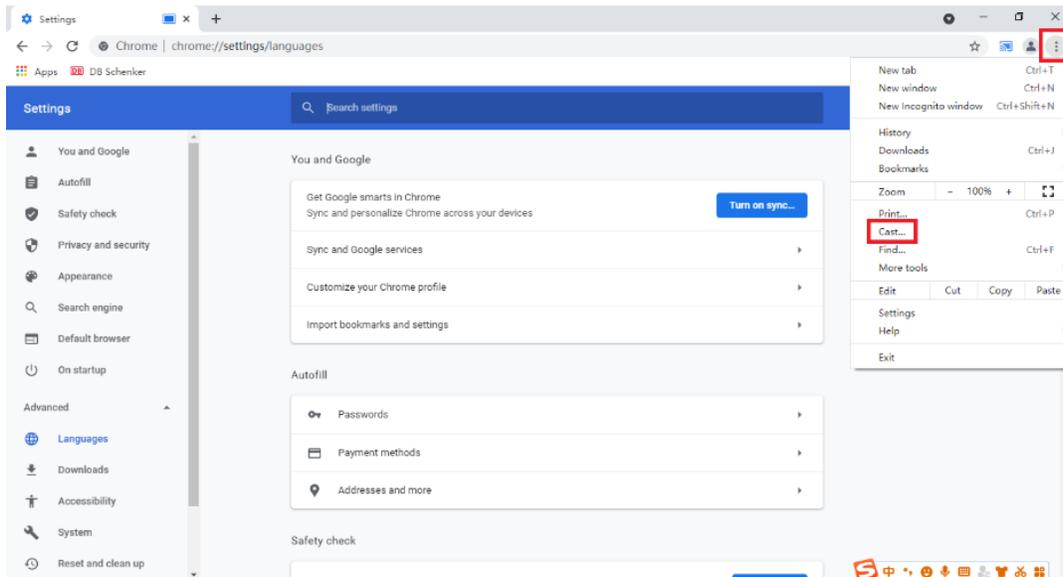
4. After entering password, it will show your mobile content on display.
5. Click the “project” icon again, disconnect to stop mirroring.

8.3.10 Chromecast on PC

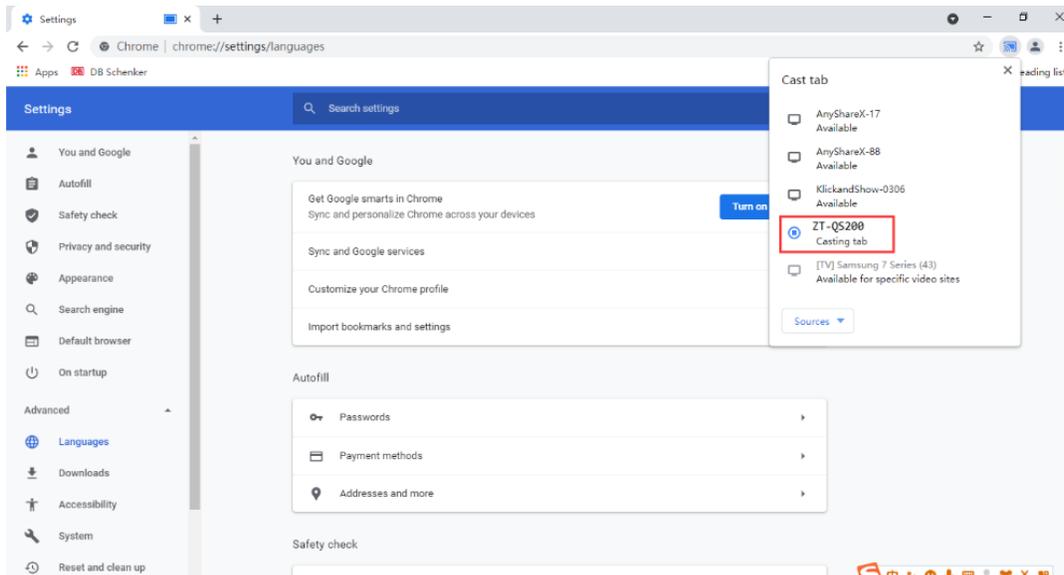
PC and ZT-QS200 base unit need to be in the same LAN network to start cast content onto screen via Chromecast. 1. Open Chromecast browser, connect your PC with same network of ZT-QS200 as below picture:



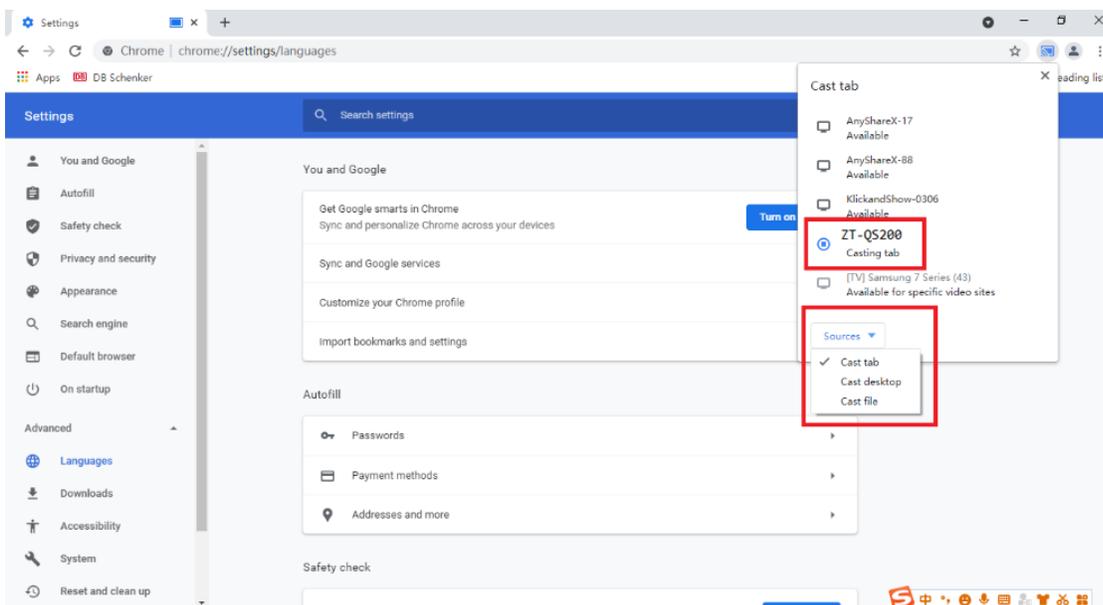
2. Click “cast” to start Chromecast function.



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



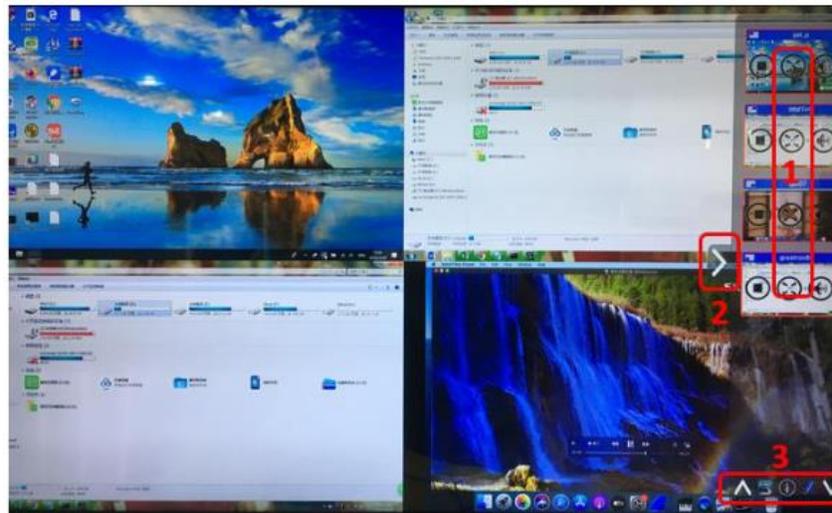
4. Three options to choose to cast. Cast tab, Cast desktop, Cast file.



8.4 Preview Window

At touch-screen or with mouse of Base-unit, you can click on LEFT or RIGHT-arrow (2), to show the 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 “ZentyQuickShare” APK at the right edge of the screen. Just scroll UP or DOWN

(3) to see further preview.



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.

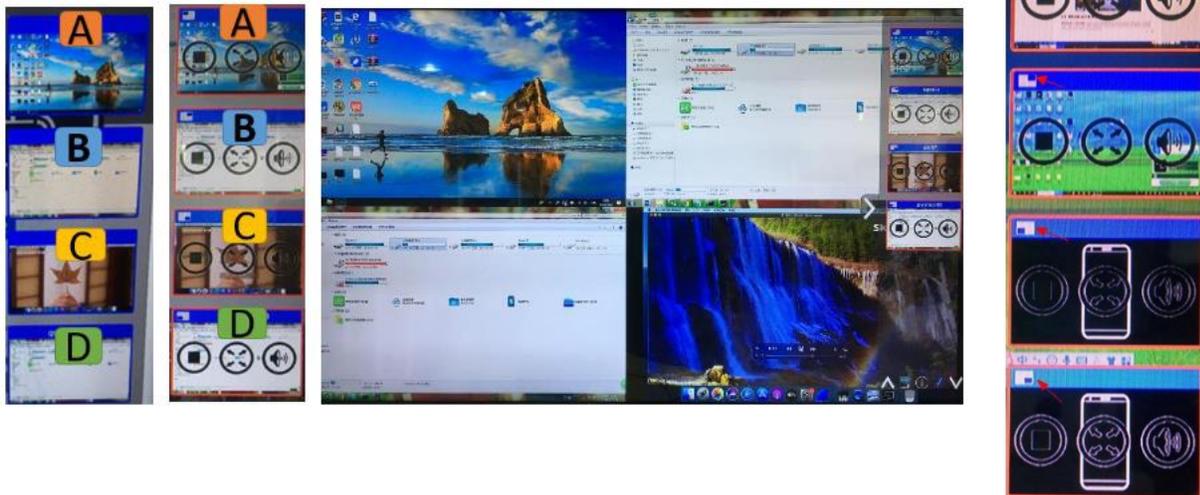
The button  indicates play button, click to show screen.

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

The button  indicates 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.



8.5 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.

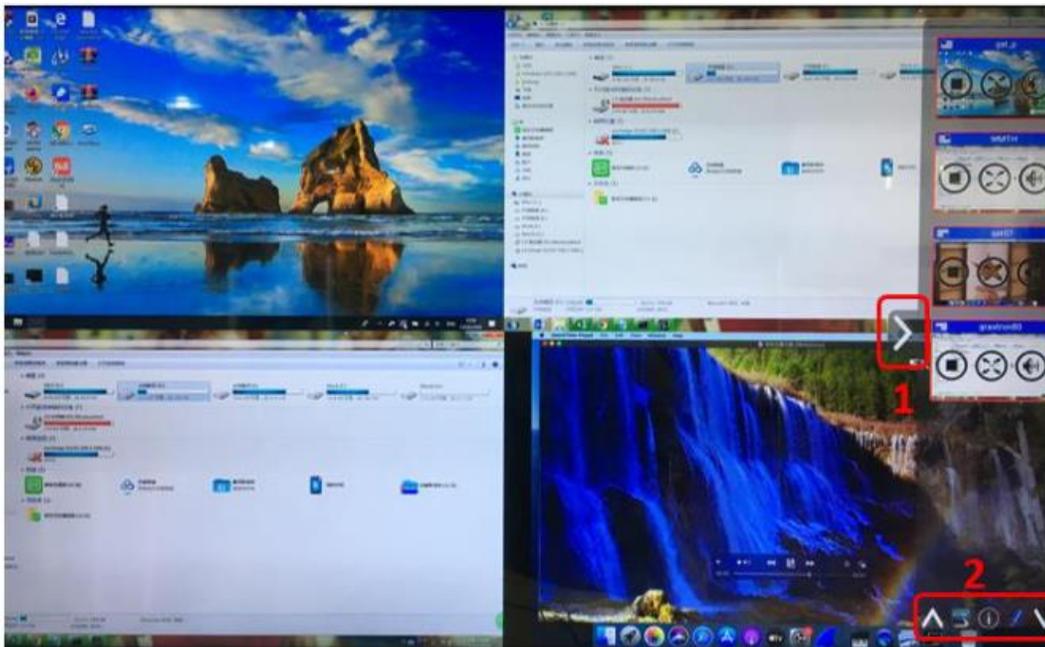
Whiteboard: write all your ideas and share the digital notes with anybody. Different colors of pen and background can be selected.

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 **Whiteboard**  or **Annotation**  icon in (2). Icon  in (2) indicates “information”, click to check the base unit SSID, password, Wifi IP and Lan IP address when some devices are sharing on main screen. This info will show on main screen at least 20s then will disappear automatically. In order to let other attendees join into meetings as well.

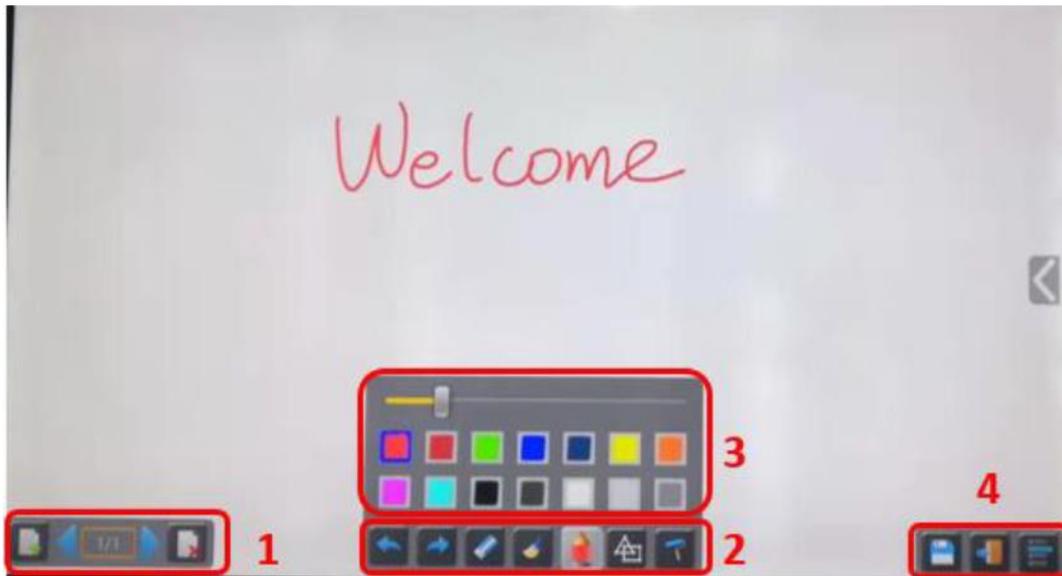


The toolbar for Whiteboard or Annotation appears in the bottom of your screen. If another user is

mirroring, the Whiteboard & Annotation function is closed.

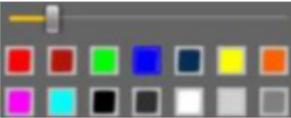
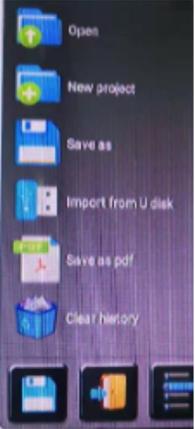
8.5.1 Whiteboard

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	Icons	Function
Tool bar 1	  	<p>Add an empty page</p> <p>Delete the actual page</p> <p>Display previous or next page</p>
	  	<p>Undo: one step backward in changes</p> <p>Redo: one step forward in changes</p> <p>Erase part of drawings or annotation, change diameter by a longer tap</p>

<p>Tool bar 2</p>		<p>Eraser by a longer tap</p> <p>Clear the entire drawing/writing on the screen</p> <p>Pen allows writing/drawing in different colors</p> <p>Draw basic geometric shapes</p> <p>Select color of board, the drawing will be kept</p>
<p>Tool bar 3</p>		<p>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.</p>
<p>Tool bar 4</p> <p>File options</p> 		<p>Save the current screenshot on local storage (PNG+WMN)</p> <p>Close Whiteboard to go back to Home screen, actual project can be saved on local storage (WMN)</p> <p>File options:</p> <ul style="list-style-type: none"> ● Open WMN-file from local storage and continue/edit an older project ● New project ● Save as WMN on local storage in unit, it will be erased after POWER-OFF ● Import from U disk stored project (WMN) ● All pages are saved as PDF on local storage ● Clear history - delete all whiteboard & annotation files on local storage

8.5.2 Annotation

Click on icon  to enter the Annotation function

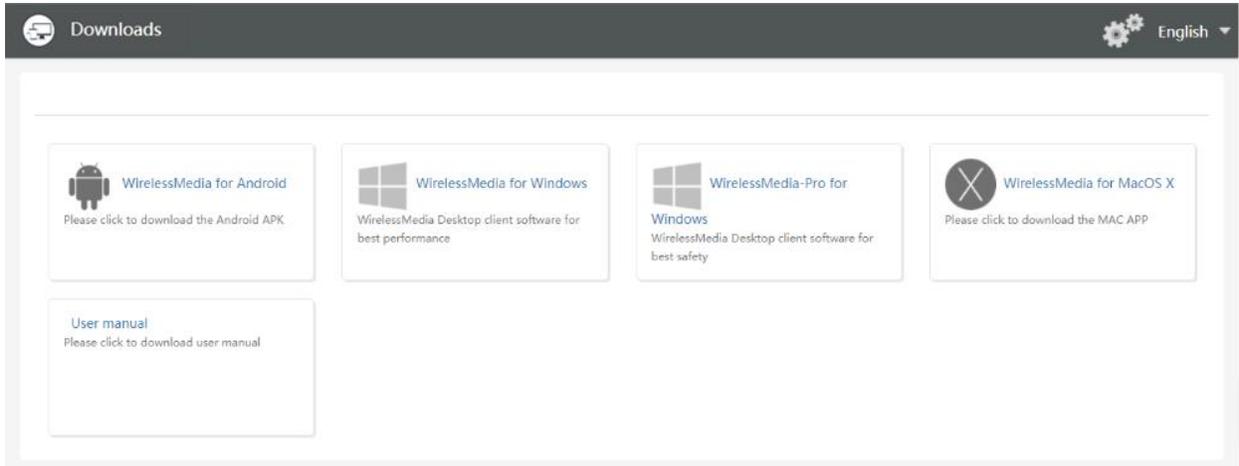
Use the toolbar to select one of the following functions.

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

9. Web Setting Management Configuration

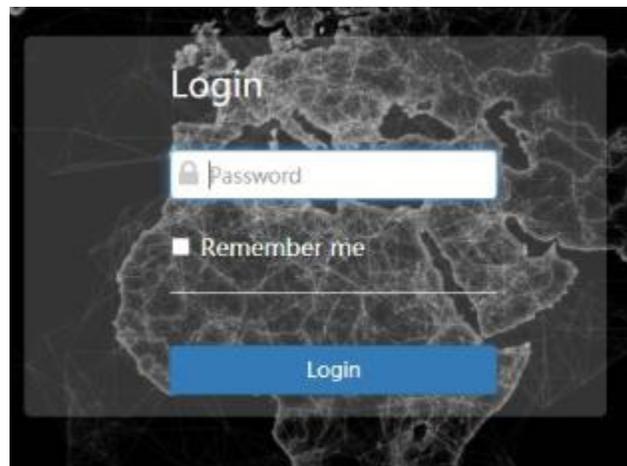
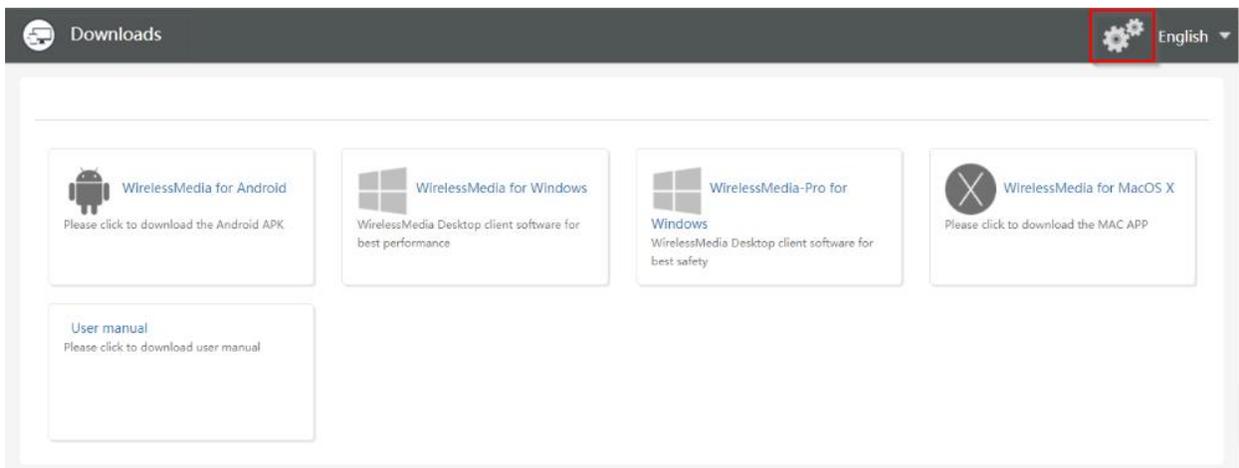
Connect base unit ID & Password or LAN IP to laptop, to enter Wi-Fi IP browser page to configure settings of base unit. The “ZentyQuickShare -windows.exe” and “ZentyQuickShare -Pro.exe” for windows PC/Lap-top, “ZentyQuickShare -macOS.app” for Mac OS X, “user manual” and “ZentyQuickShare” for Android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

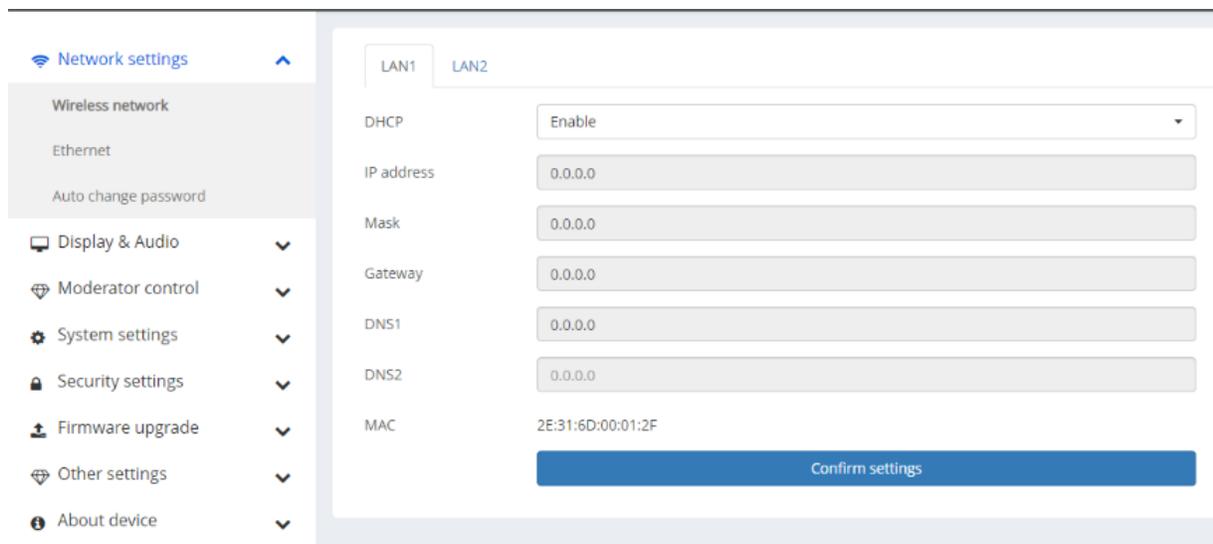
Note: after setting, user need to wait for at least 1 min to restart the unit. Otherwise, the modification on the setting will not be saved.



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.





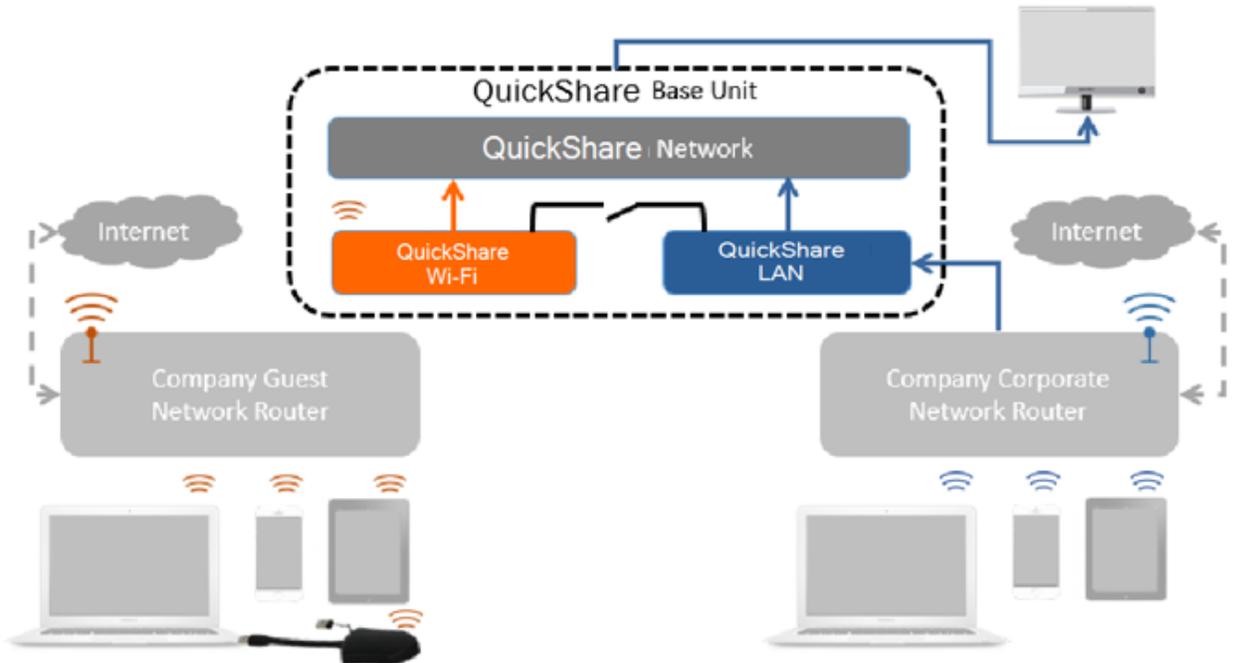
The main interface of “Setting” is shown as above, including Network settings, Display & Audio, Moderator control, System settings, Security settings, Firmware upgrade, other settings, about device.

9.1 Network Settings

9.1.1 Wireless Network

To take the full benefits of the Zenty QuickShare possibilities, ZT-QS200 should be properly integrated in the organization’s network (company/university/school). This wizard allows user to create a custom configuration for integration of Zenty QuickShare 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 and wired LAN network (normally connected to the corporate/trusted network).

A typical Segmented Dual Network topology is shown as below.



9.1.1.1 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 Zenty QuickShare installed. The default name is “ZT-QS200-XXXX”.

Wireless network

1. Device name

2. Mode selection

3. Network settings

Device name

Note: The device name is the host name of the device, which is used as the WiFi name when it is set as Wireless Direct Mode, or host name when it is set as Infrastructure Mode. Please pay attention that the changing of ID may cause the re-pairing of the dongle. Please don't use special signs like :!@#%&*().

Cancel

Next step

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

Click “Next step”. The following three connection methods are available.



9.1.1.2 Wireless Direct Mode

After Factory Reset, ZT-QS200 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.

Stand-Alone Connection

The internal Wi-Fi access Point of ZT-QS200 is active. The dongle is paired directly to it. No Internet access is required.

The LAN-Port of Base-unit is not connected. The PC-users can present with or without dongle by Zenty QuickShare 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.

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 2. Mode selection 3. Network settings

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

Previous Next 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.

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 field to fill out the appropriate password with length of 8 characters.

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 concerns).

The screenshot shows the '3. Network settings' step of the configuration process. At the top, three blue arrows indicate the steps: '1. Device name', '2. Mode selection', and '3. Network settings'. Below these are three grey panels with wireless icons and red-bordered text boxes containing the following options:

- Allow Internet access (bridging) via LAN 1
- Allow Internet access (bridging) via LAN 2
- Disable Internet access

Below the panels are four input fields:

- SSID discovery and connection: Yes
- Frequency: 5GHz
- Channel: 36
- Password: 00001436

At the bottom are two buttons: 'Previous' and 'Next step'.

9.1.1.3 Wireless Infrastructure Mode

The screenshot shows the '2. Mode selection' step of the configuration process. At the top, three blue arrows indicate the steps: '1. Device name', '2. Mode selection', and '3. Network settings'. Below these are three grey panels with wireless icons and text labels:

- Wireless direct mode
- Wireless infrastructure mode (highlighted with a red border)
- LAN infrastructure mode

At the bottom are two buttons: 'Previous' and 'Next step'.

Zenty QuickShare can connect to a wired and a wireless network simultaneously. The basic unit is firmly "connected to the company network with LAN. The segmented Dual Network of Zenty QuickShare provides two separated routing ways to connect to the Base-unit at same time. Zenty QuickShare uses the existing wireless network infrastructure.

Dual Network Configuration

The internal the Wi-Fi network of Zenty QuickShare 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 Zenty QuickShare 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 Zenty QuickShare. (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 Zenty QuickShare: 

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.

1. Device name

2. Mode selection

3. Network settings

Dongle connects to base unit via wireless network

Dongle connects to base unit via LAN

5GHz ONLY

Select SSID: Gastron_Guest_5.0G (SignalLevel:59%) Rescan List ✓

Password: [masked] ✓

Previous Next step

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.

Select dongle SSID: choose the same LAN network which base unit connects, to pair the dongle.

Password: enter password of the LAN network.

See picture as below:

Wireless network

1. Device name 2. Mode selection 3. Network settings

Dongle connects to base unit via wireless network

Dongle connects to base unit via LAN

5GHz ONLY

Select SSID: Grastron_Guest_5.0G (SignalLevel:59%) Rescan List ✓

Password: ●●●●●●●● ✓

Select dongle SSID: Grastron_5.0G (SignalLevel:99%) Rescan List ✓

密码: ●●●●●● ✓

Previous Next step

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

9.1.1.4 LAN Infrastructure Mode

1. Device name 2. Mode selection 3. Network settings

Wireless direct mode

Wireless infrastructure mode

LAN infrastructure mode

Previous Next step

In this configuration the built-in Wi-Fi access point of Zenty QuickShare 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 Zenty QuickShare 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 “Zenty QuickShare” 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.

1 Device name 2 Mode selection 3 Network settings

5GHz ONLY

Select Sid: Gastron_5.0G (SignalLevel:99%) Rescan List ✓

Password: ✓

Previous Next step

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

9.1.2 Ethernet

Configure the Ethernet settings. ZT-QS200 has 2 Lan port, if the base unit is connected with 2 LAN cable, you can configure from below tab.

Network settings

Wireless network

Ethernet

Auto change password

Display & Audio

Moderator control

System settings

Security settings

Firmware upgrade

Other settings

About device

LAN1 LAN2

DHCP: Enable

IP address: 0.0.0.0

Mask: 0.0.0.0

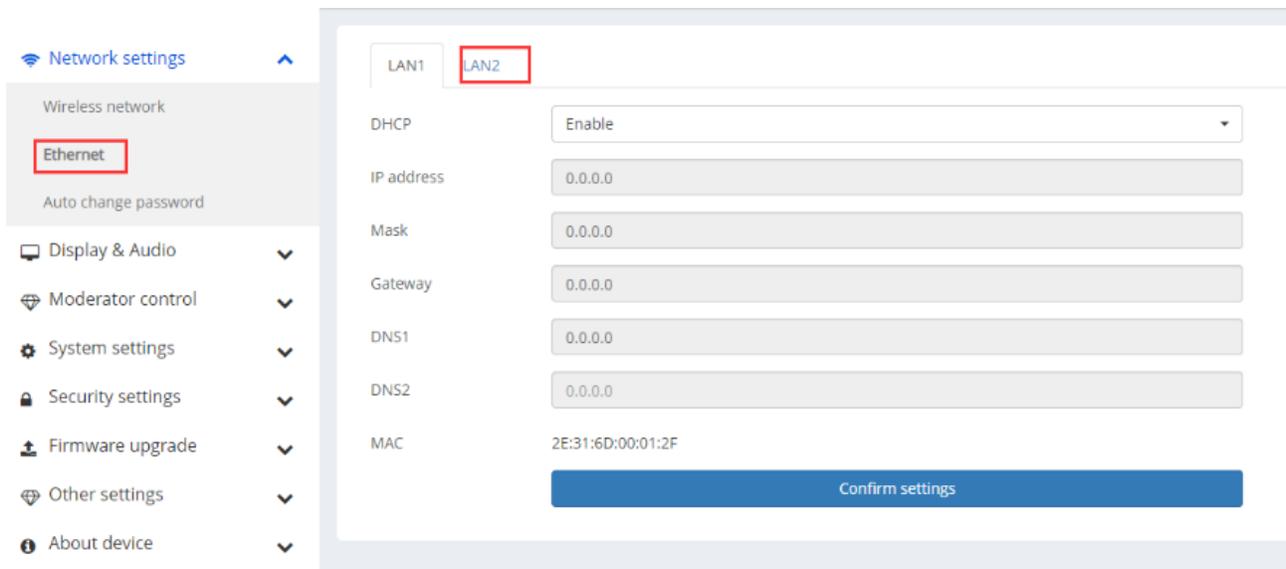
Gateway: 0.0.0.0

DNS1: 0.0.0.0

DNS2: 0.0.0.0

MAC: 2E:31:6D:00:01:2F

Confirm settings

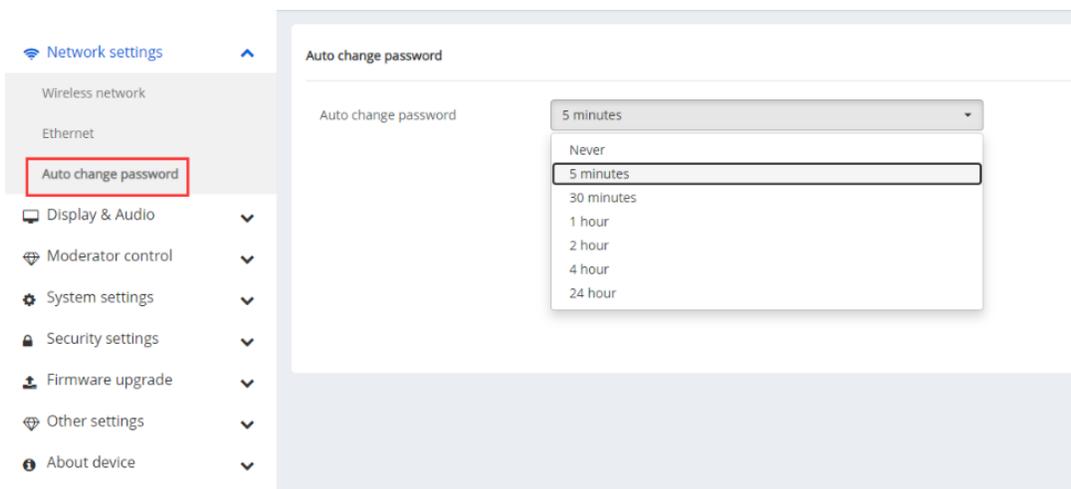


9.1.3 Auto Change Password

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.



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.

9.2 Display & Audio

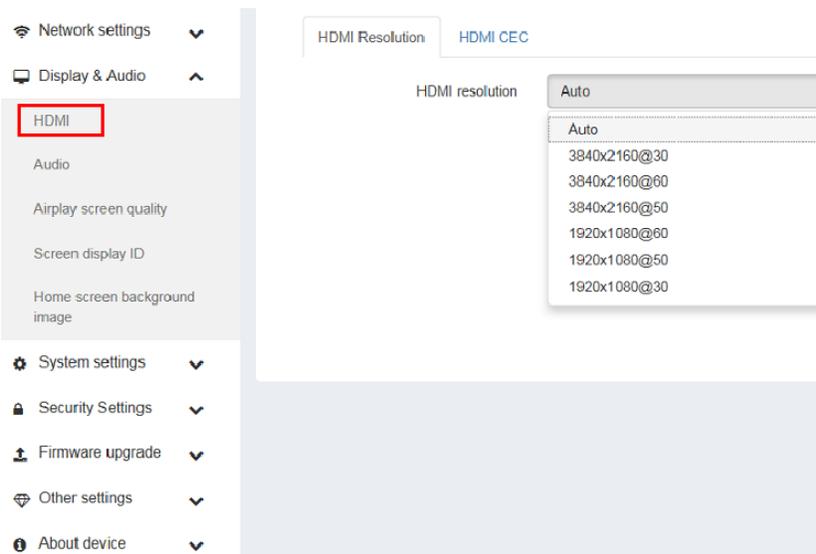
9.2.1 HDMI

HDMI Resolution

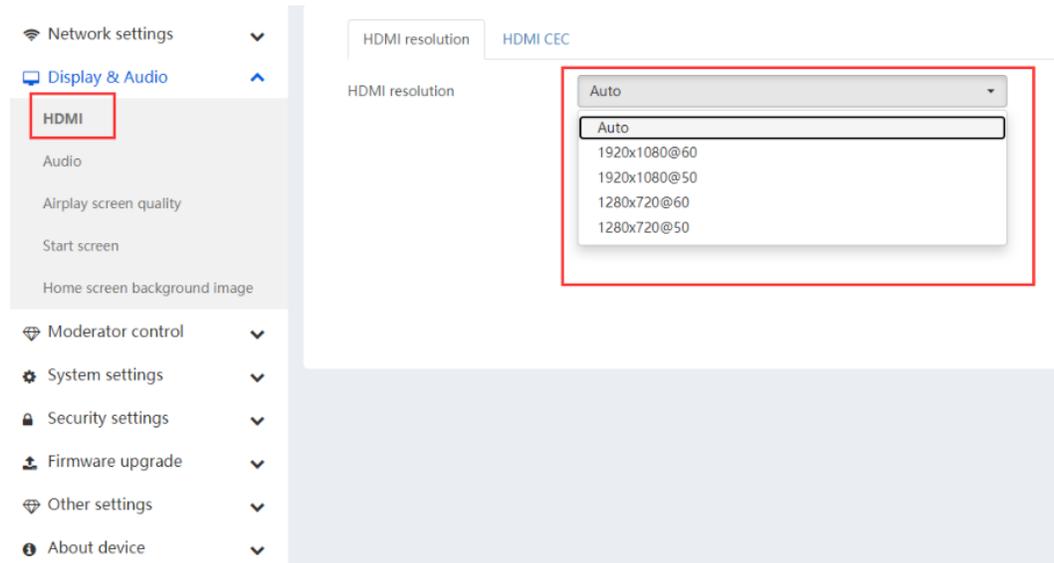
Select the resolution at HDMI output of Base-unit.

Existing HDMI output resolution as below:

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



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



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.

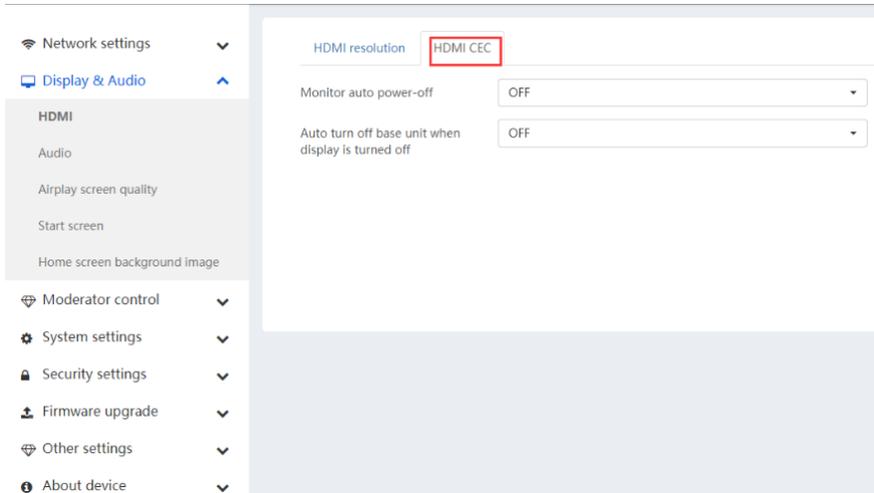
Monitor auto power off:

- 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.



9.2.2 Audio

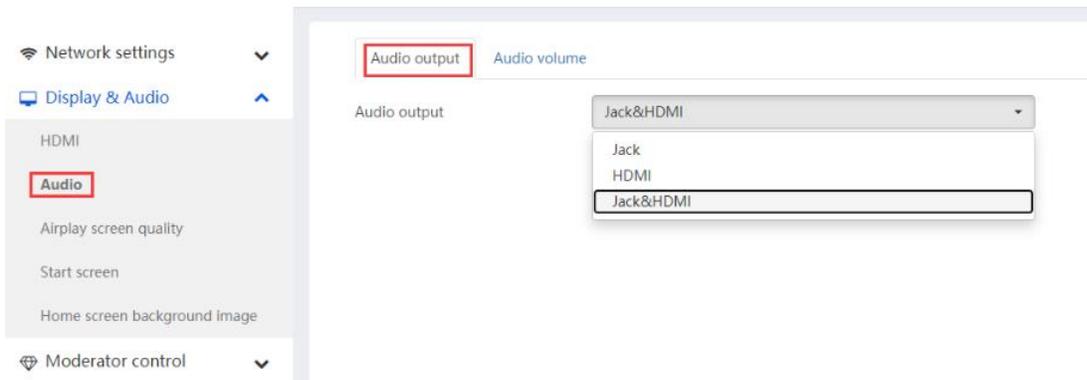
Audio

Choose audio output:

Jack: output only 3.5mm mini-jack audio.

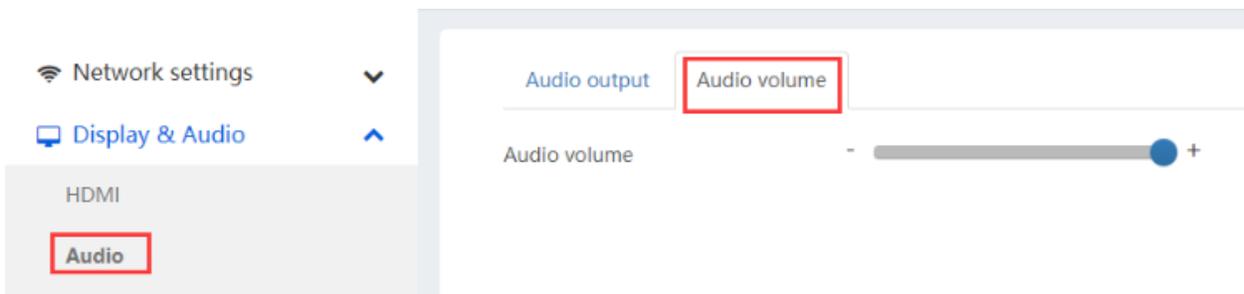
HDMI: output only HDMI audio.

Jack & HDMI (Default): output Jack & HDMI audio



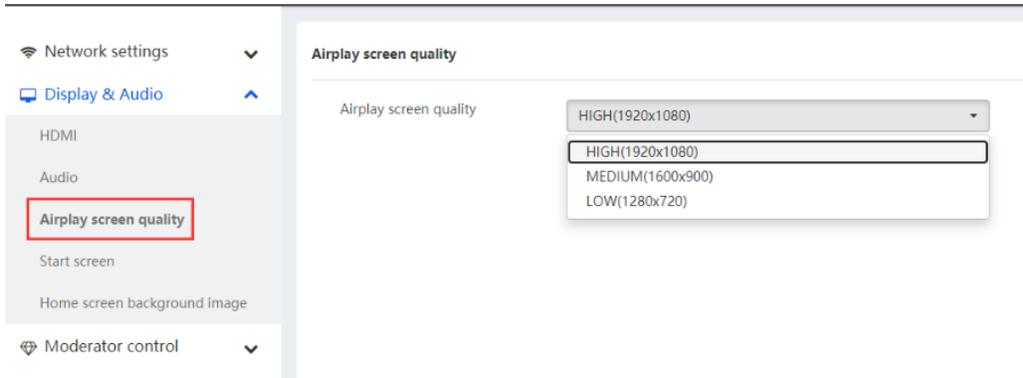
Volume

User can select volume of display from 0 to 100.



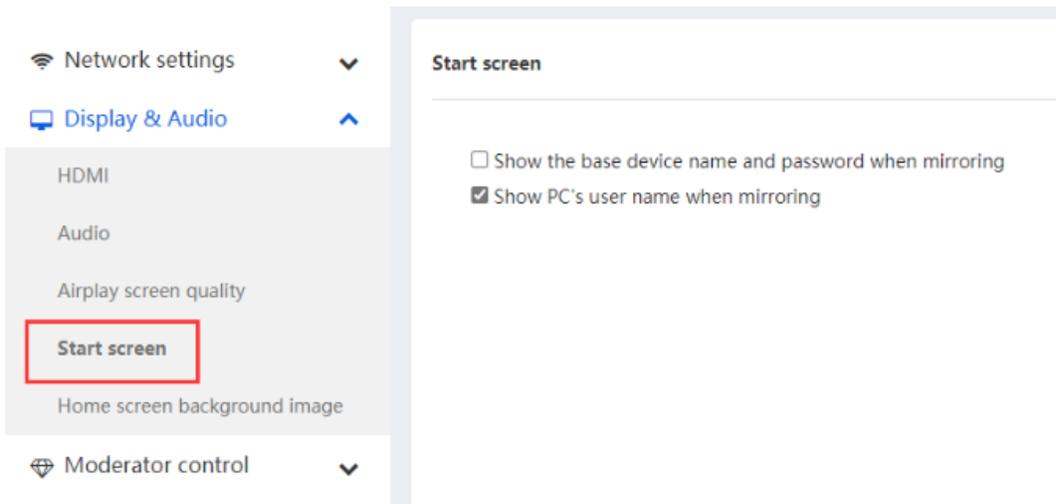
9.2.3 Airplay Screen Quality

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



9.2.4 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.



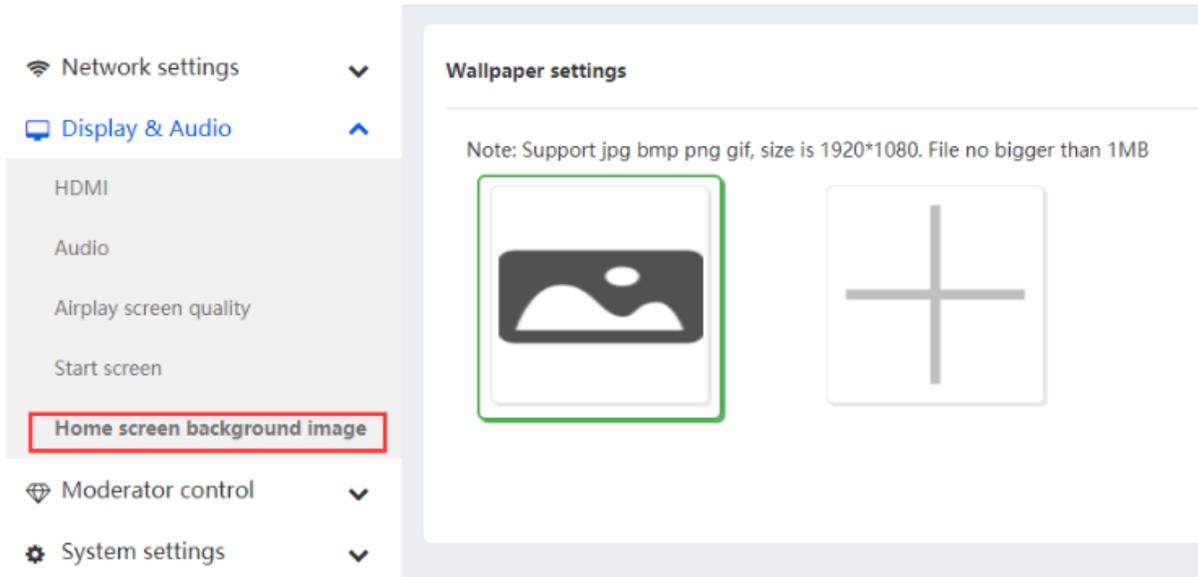
- Show PCs user name when mirroring.

Show user name



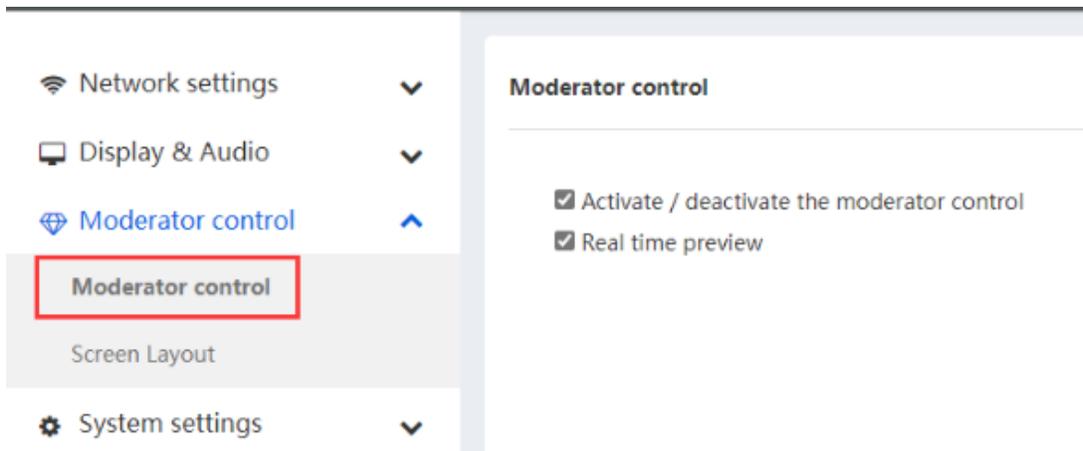
9.2.5 Home Screen Background Image

When powering Zenty QuickShare 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.

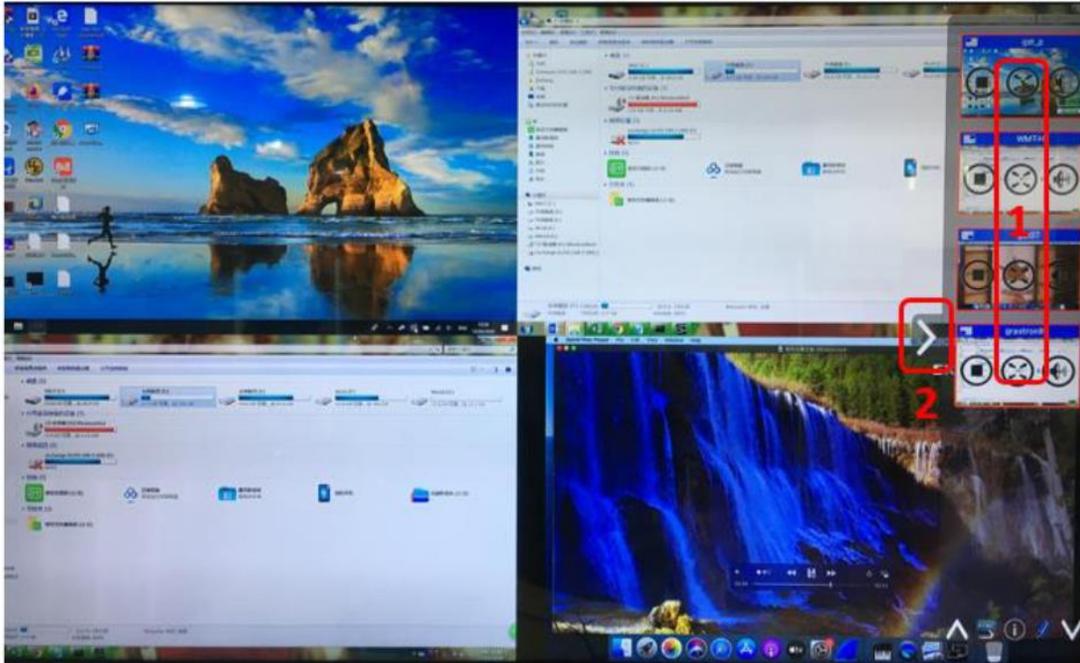


9.3 Moderator Control

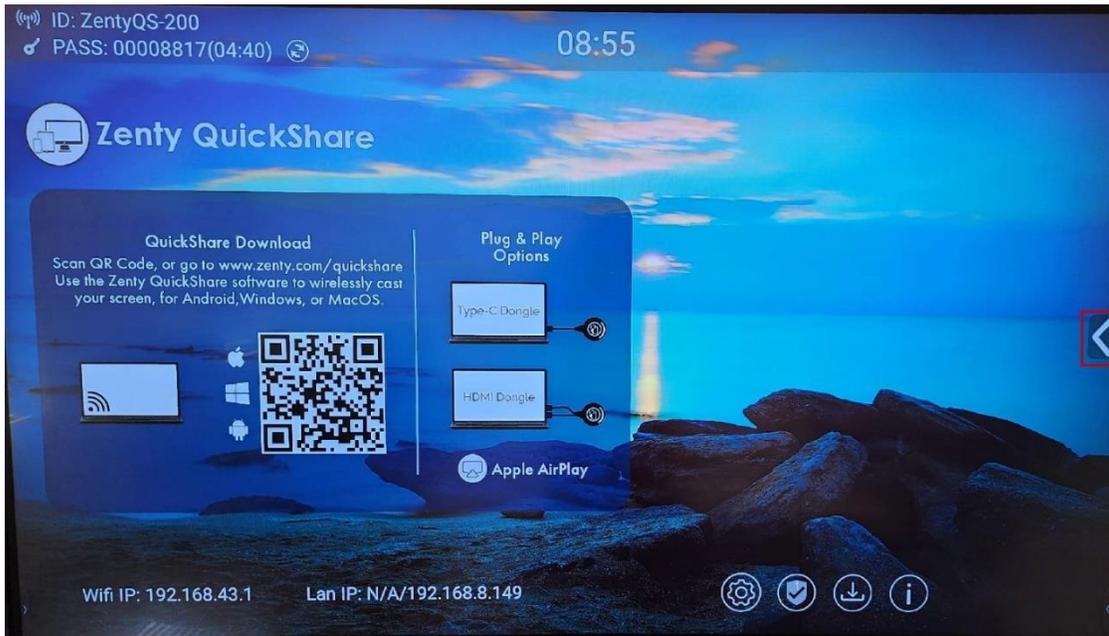
9.3.1 Moderator Control



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

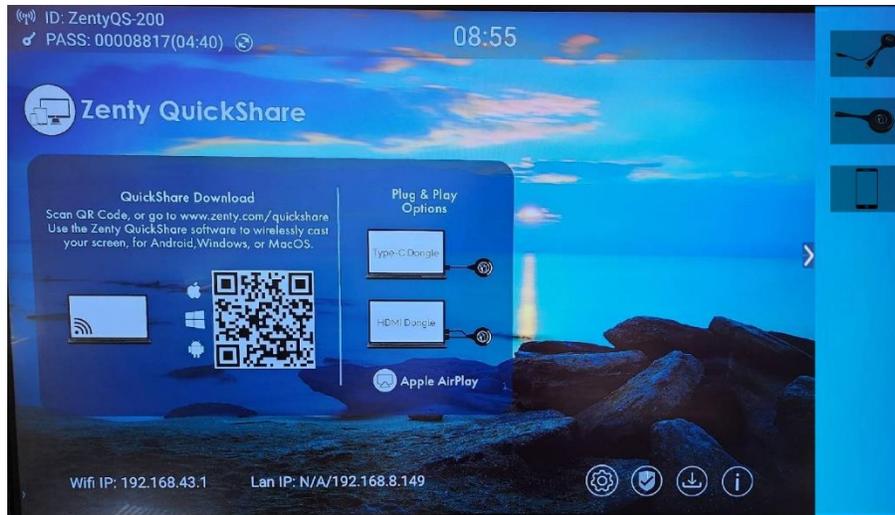


If you do not check the icon, the preview window bar will be minimized as below:



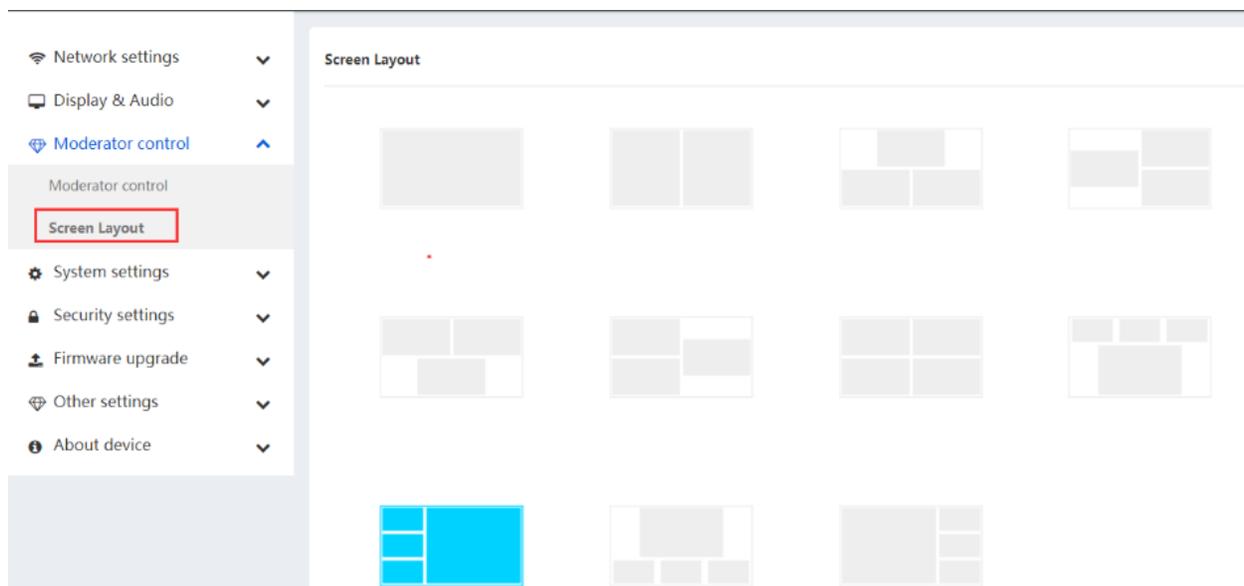
- Real time preview

If you check the icon, the preview window will show real time preview, if not checked, the preview window will only show a static picture as below:

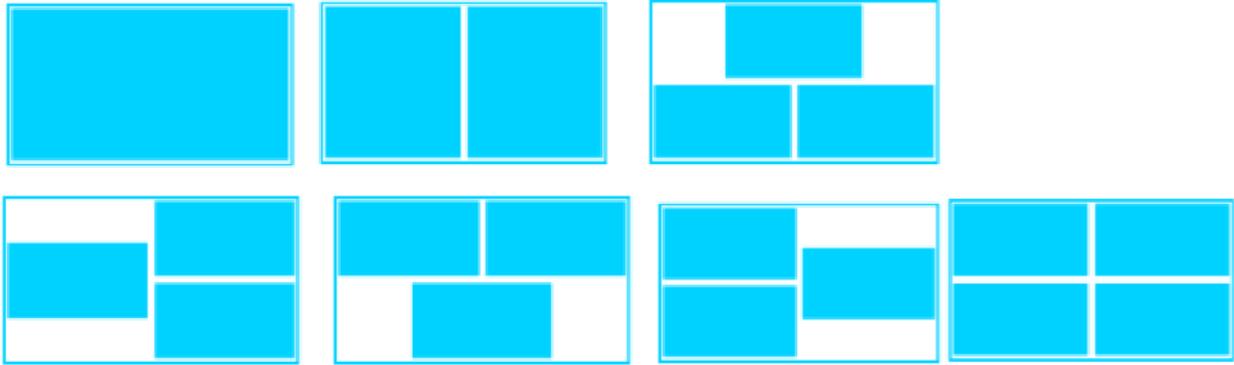


Screen Layout

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



- 1) Full screen
 - 2) Dual screen
 - 3) Three split screens
 - 4) 4 equal split screens
 - 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 layouts, 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.



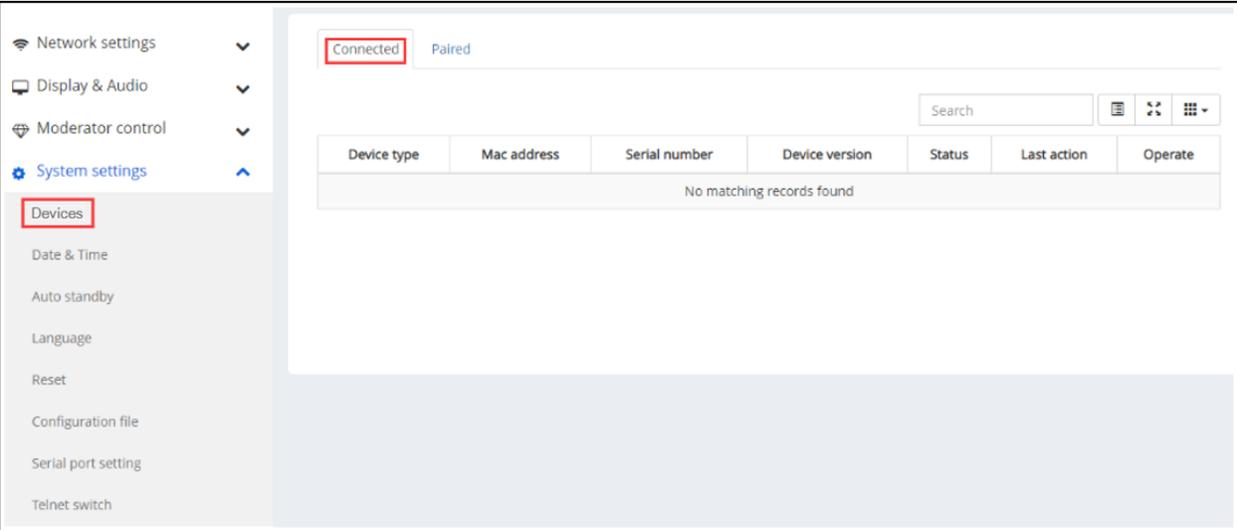
Under 1 main/preferred screen, and the rest of 3 screen layout, long-press dongle will show in full screen, and another presenter's screen will be minimized and show to the predefined layout.



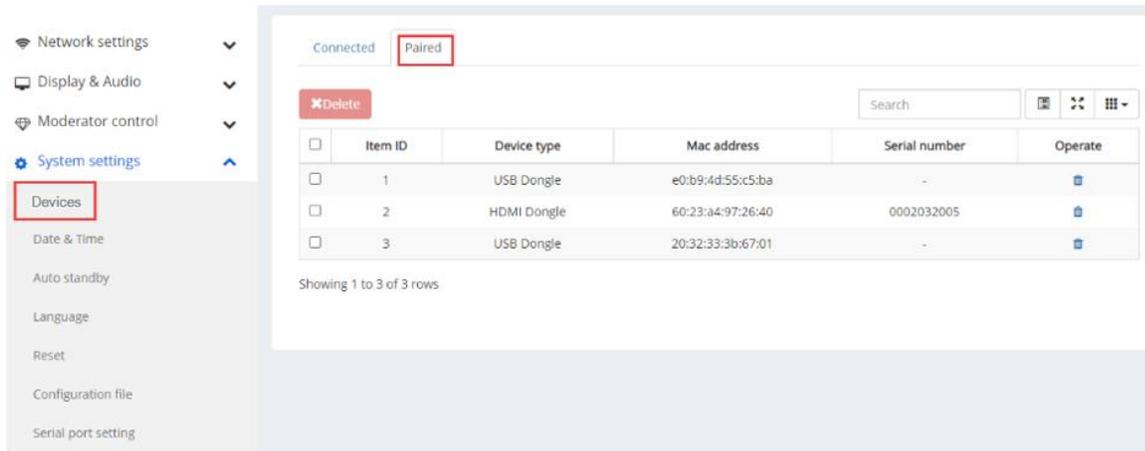
9.4 System Settings

9.4.1 Devices

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



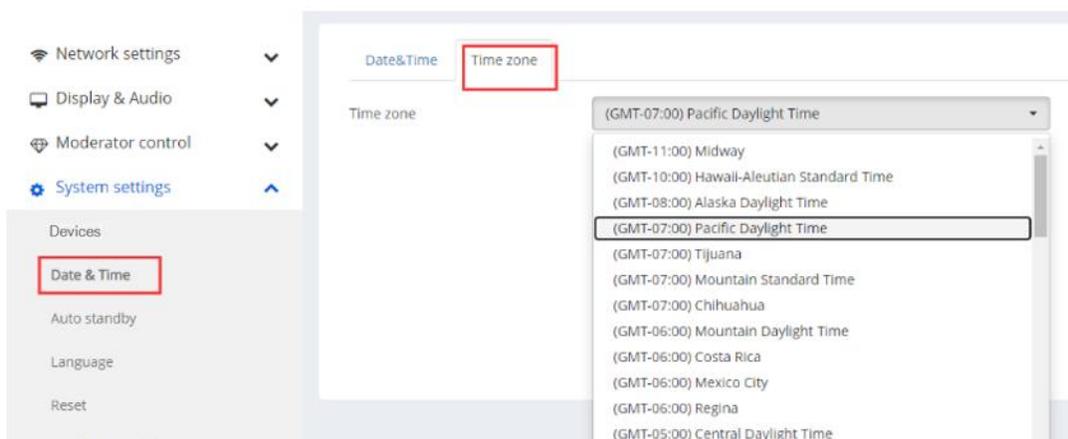
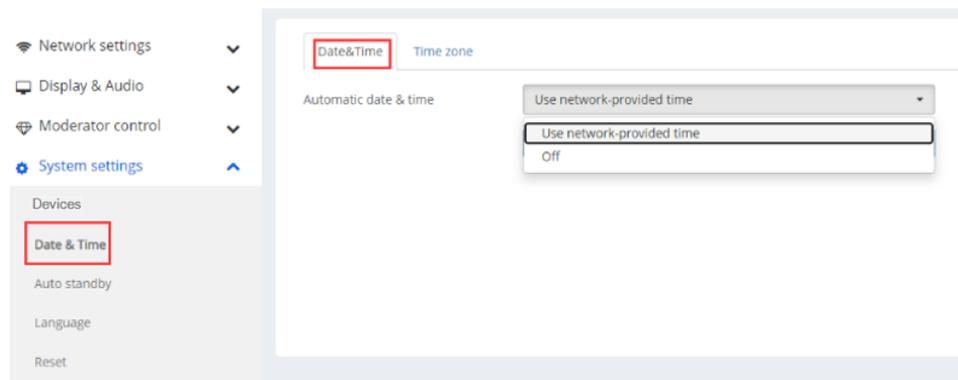
Paired: Show properties of connected dongles and can be managed from this page.



9.4.2 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 field to fill out the appropriate date.
- Set time: Click in the input field to fill out the appropriate time manually. The setting is not saved, when power is off.
- Select time zone: Click in the input field to fill out the appropriate time zone.

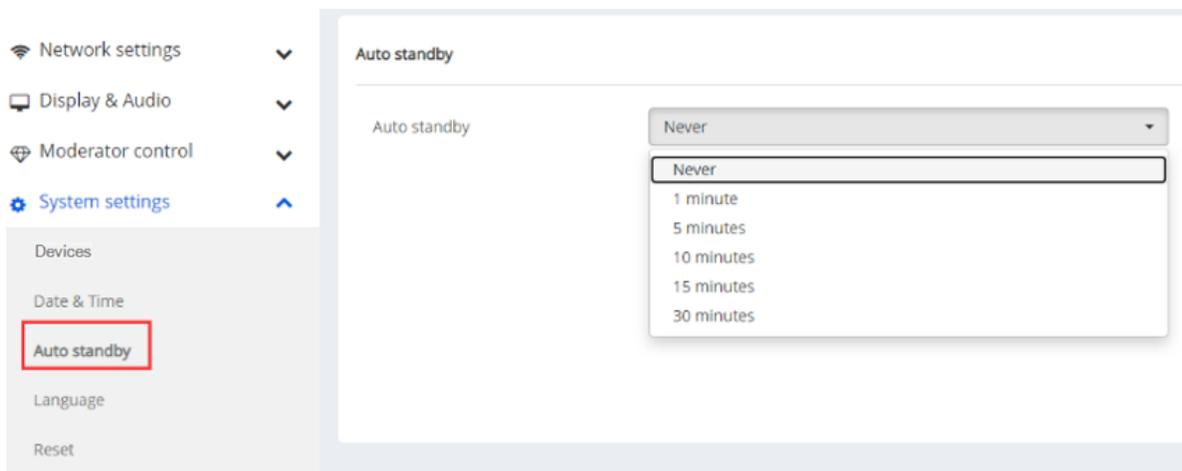


9.4.3 Auto Standby

If the Auto Standby mode is activated, Zenty QuickShare 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.

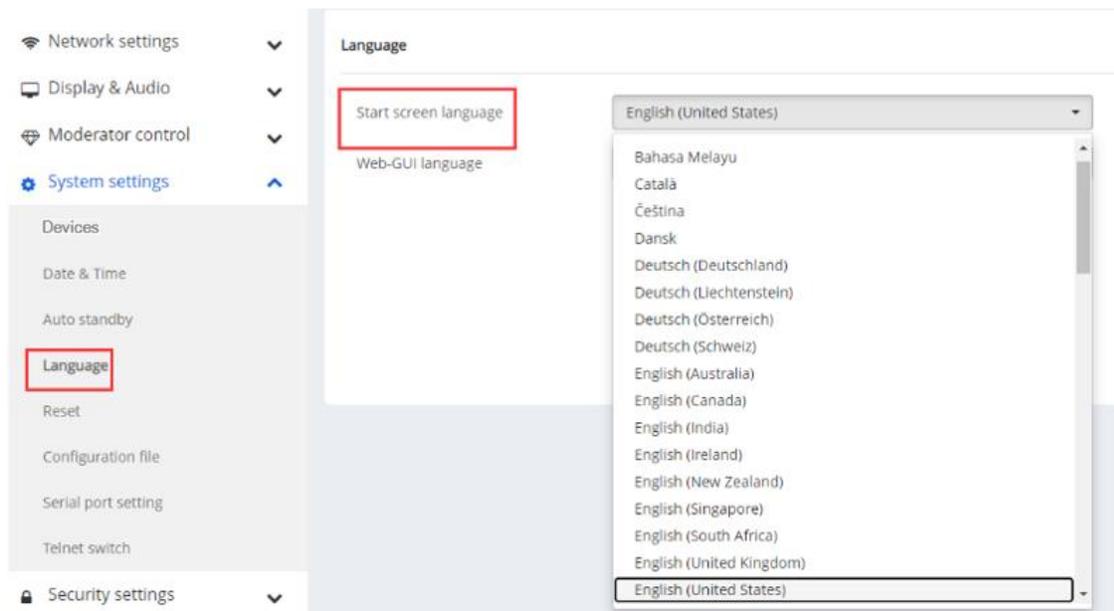
When a dongle is plugged in and connected, or a mobile unit is connected, standby is deactivated.

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



9.4.4 Language

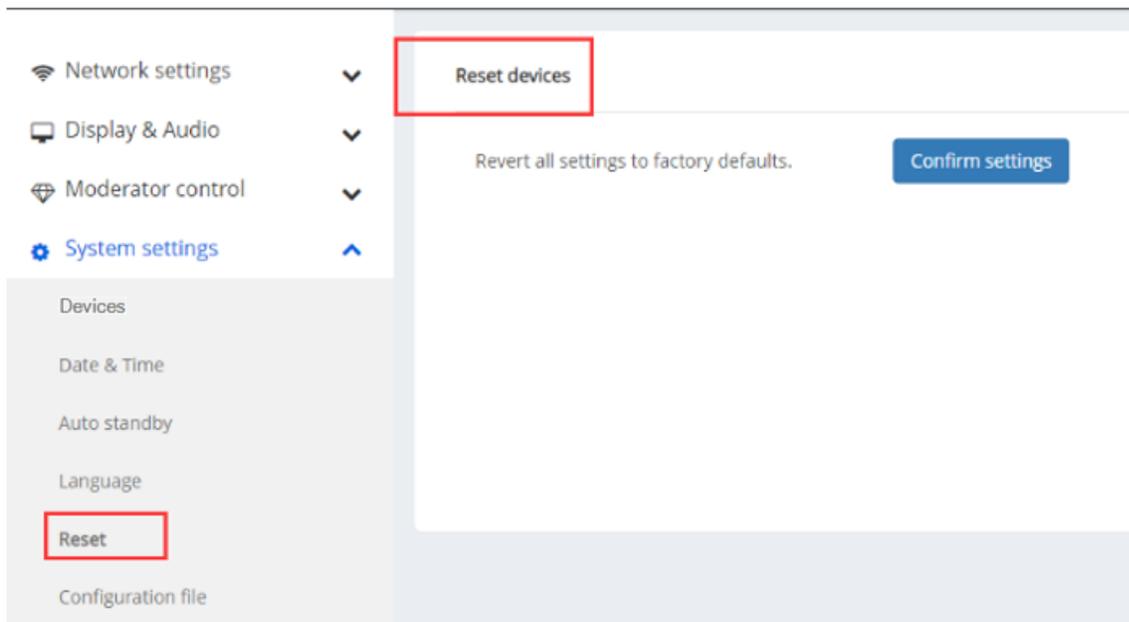
Select an installed display language.





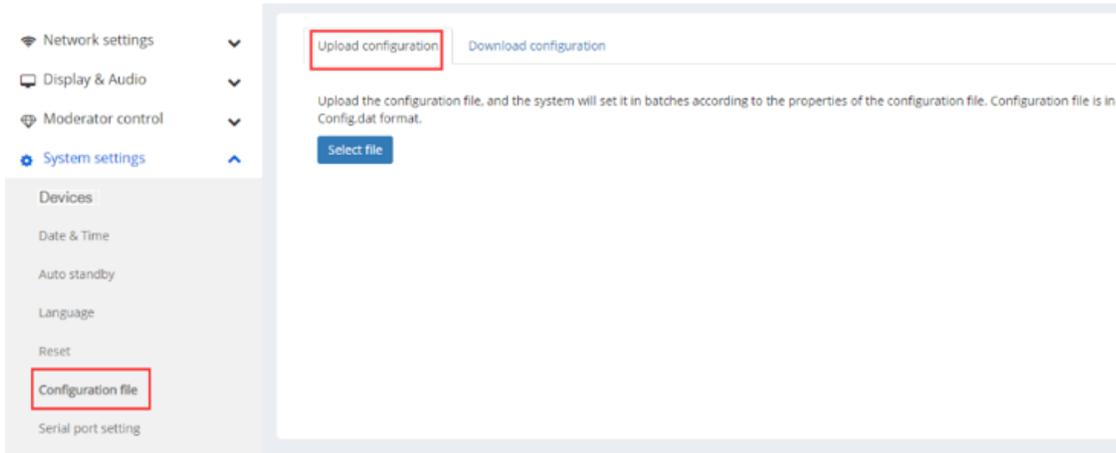
9.4.5 Reset

Factory reset to restore unit.



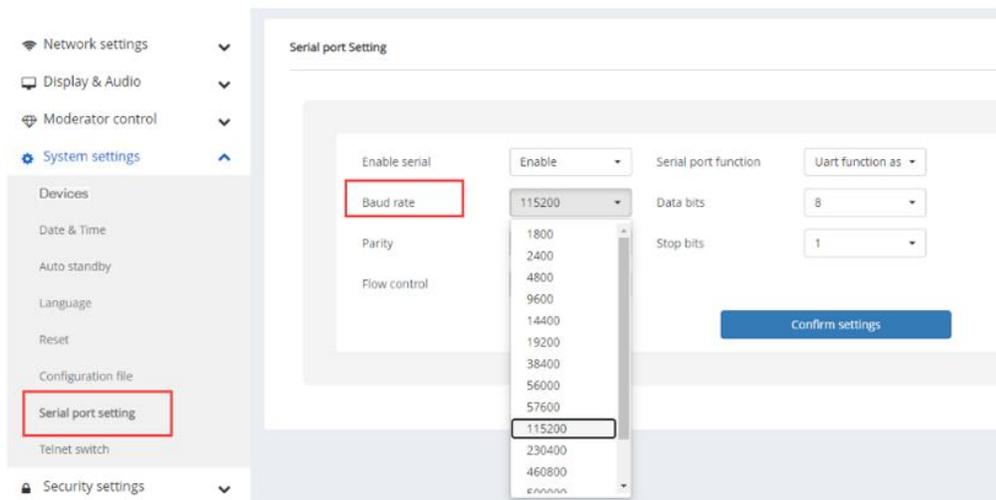
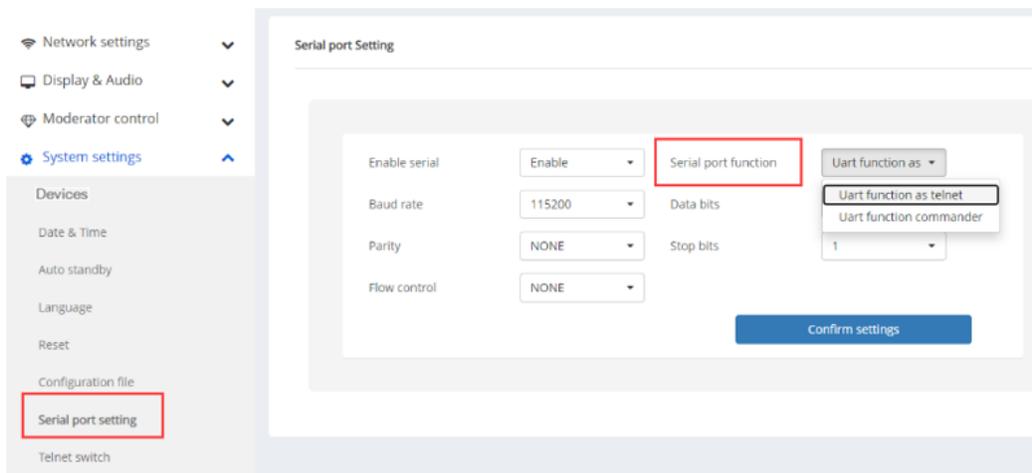
9.4.6 Configuration File

Configuration File is a packaged file which contains all the configuration parameter of the ZT-QS200, which could be downloaded and copied to multiple device which needs to use the same configuration.



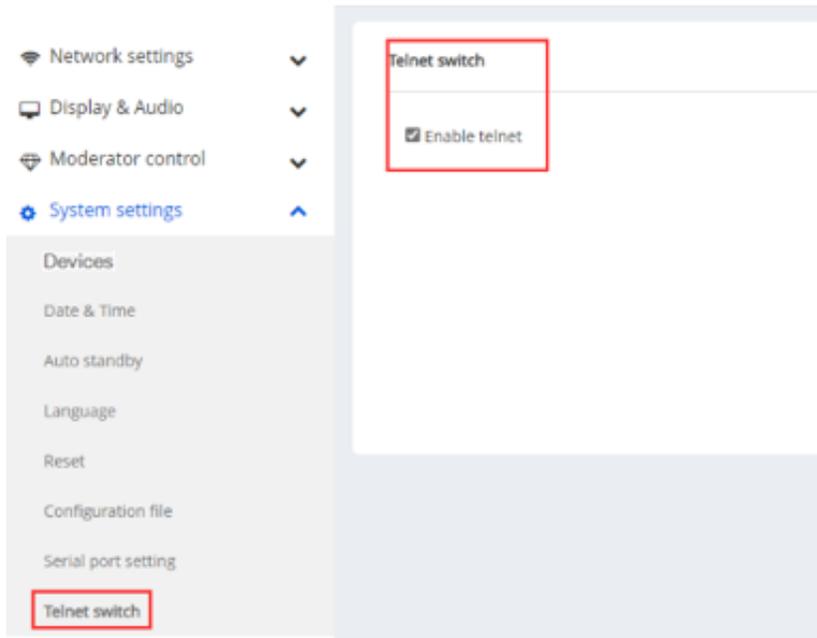
9.4.7 Series Port Setting

To configure telnet command and RS-232 command.



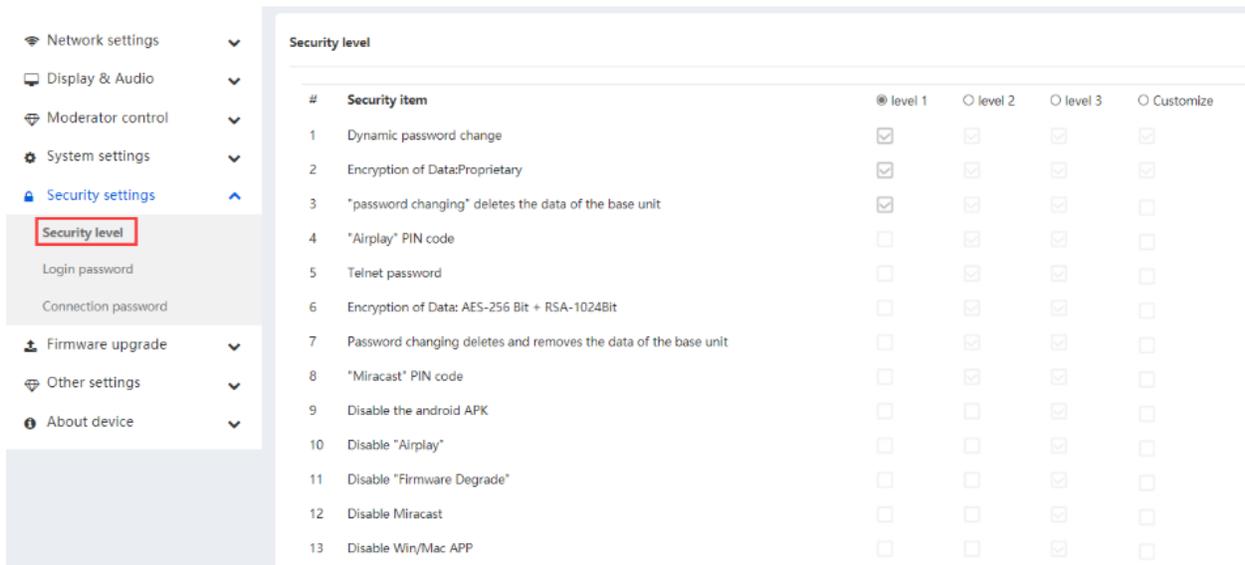
9.4.8 Telnet Switch

Enable or disable Telnet.



9.5 Security Settings

9.5.1 Security Level



Based on user requirements, three different security levels can be set in the menu of Zenty QuickShare, 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.

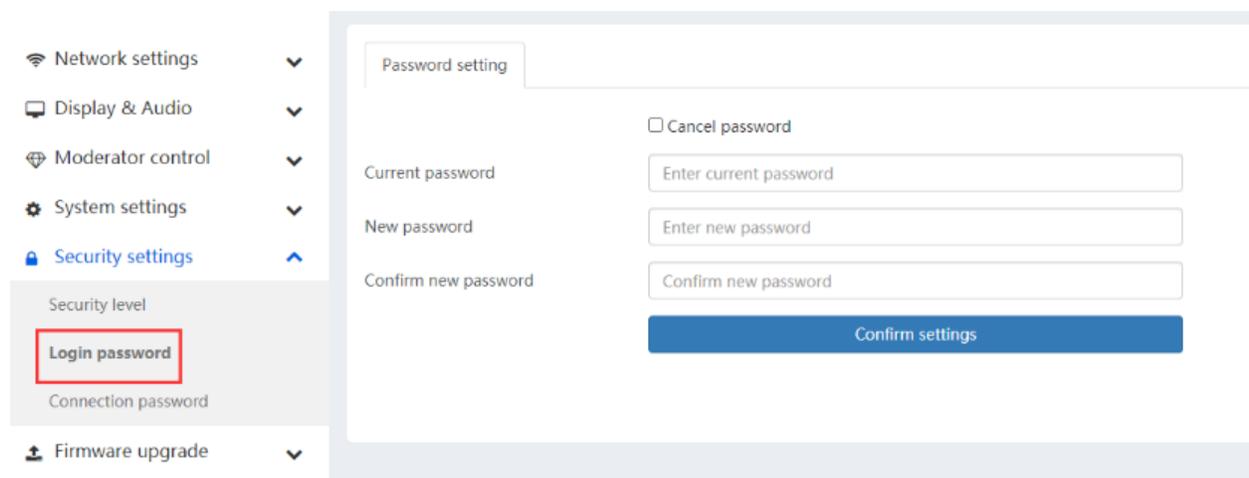
Level 2: higher security; provides increased security for companies, organizations, government agencies, etc., through powerful encryption of audio and video data; other security features include limiting the transmission of "AirPlay" by introducing a password.

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.

9.5.2 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".



The screenshot displays the webserver settings interface. On the left, a sidebar menu lists various settings categories: Network settings, Display & Audio, Moderator control, System settings, Security settings (highlighted in blue), and Firmware upgrade. Under 'Security settings', 'Login password' is selected and highlighted with a red box. The main content area shows the 'Password setting' form. It includes a 'Cancel password' checkbox, three input fields for 'Current password', 'New password', and 'Confirm new password', and a blue 'Confirm settings' button.

9.5.3 Connection Password

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

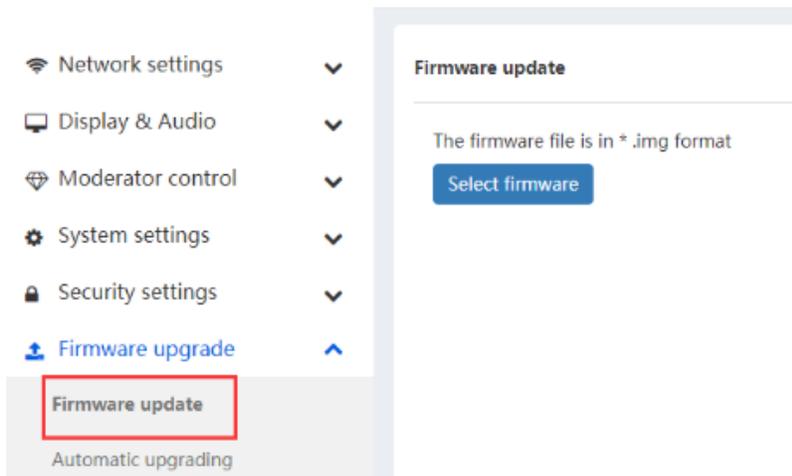
- 4-digits password, beginning with 0000
- 8-digits password



9.6 Firmware Upgrade

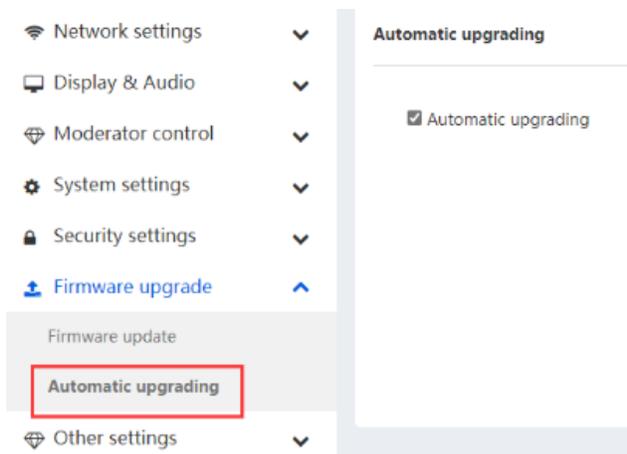
9.6.1 Firmware Upgrade

To upload local updating files to upgrade base unit.



9.6.2 Automatic Upgrading

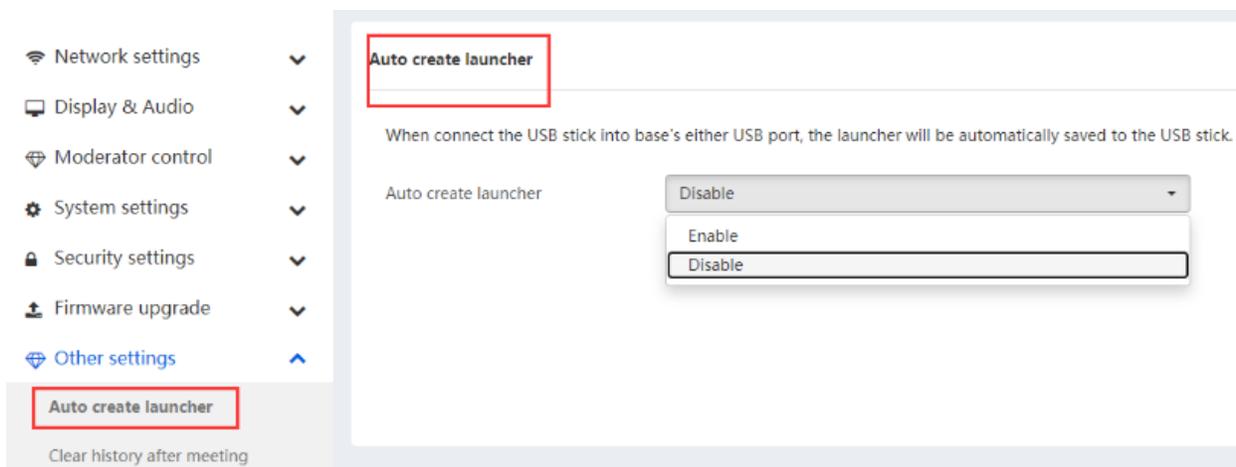
Check to choose upgrading from OTA via Internet or from local files.



9.7 Other Settings

9.7.1 Auto Create Launcher

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



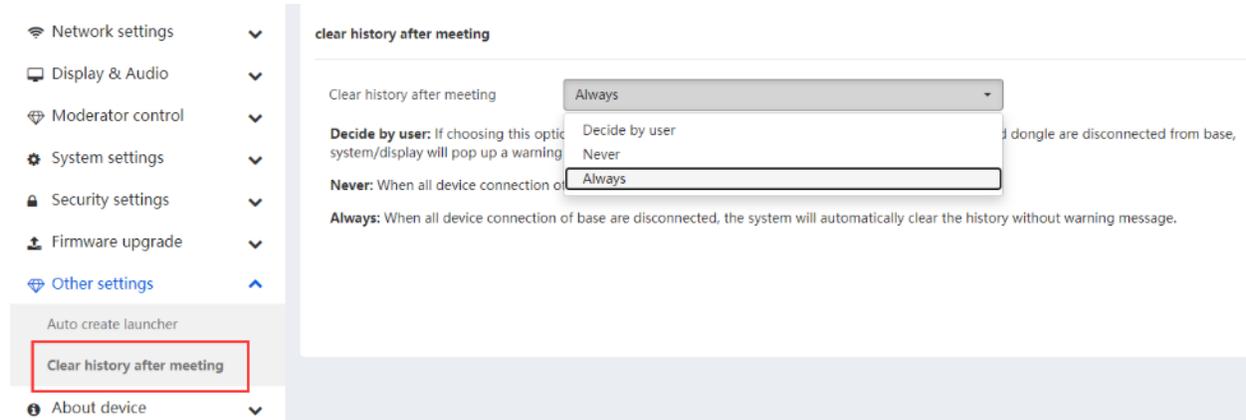
9.7.2 Clear History After Meeting

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.

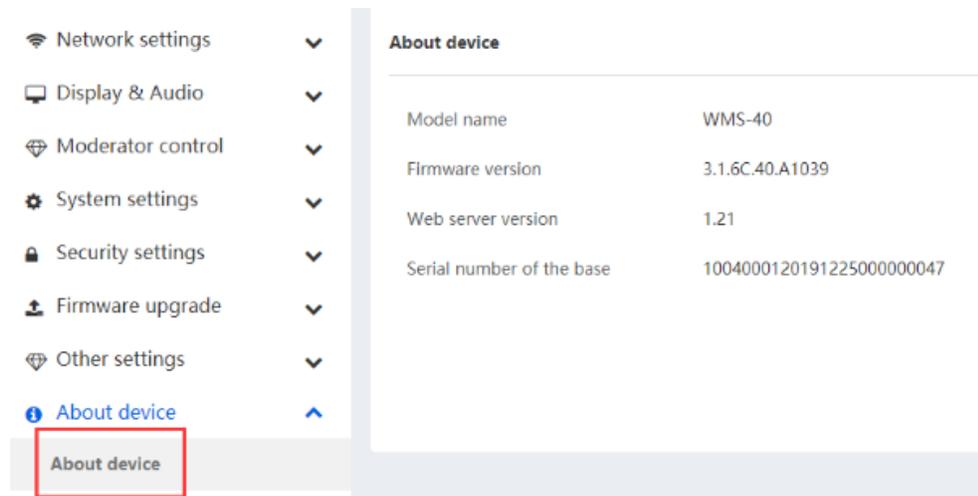
Never – storage space is automatically erased, when memory is filled for 90%.

Always – memory is automatically deleted.



9.8 About Device

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



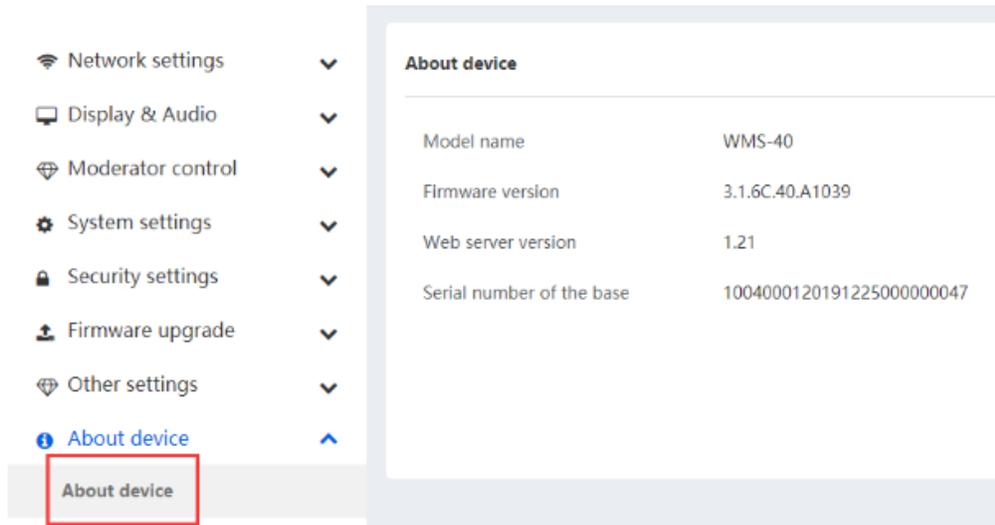
10. Updating Zenty QuickShare

An update of the firmware can be useful to take the advantage of new features of Zenty QuickShare or to fix known issues and bugs. Zenty QuickShare 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 “ZentyQuickShare.exe“. All software is stored in Base-unit, to be transferred manually to different devices.

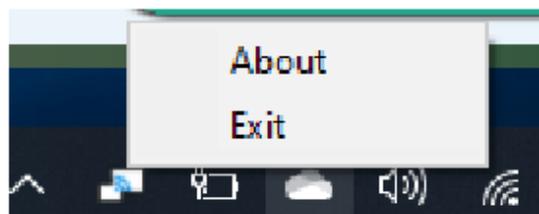
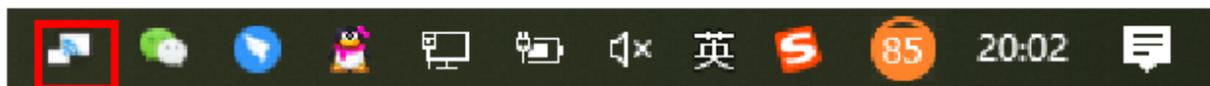
10.1 Check Current Firmware Information

Base-unit: webserver “console” menu / About device.



Windows OS:

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



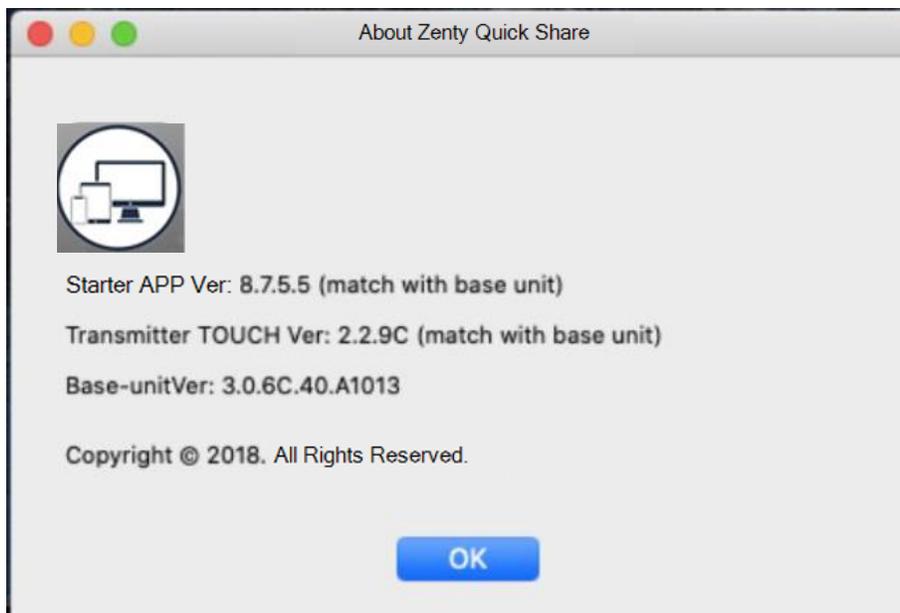
Click “About” to check dongle and launcher program version.

MAC OSX:

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



Click “About” to check dongle and launcher program.



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 ““Zenty QuickShare” ATTENTION” alert message box in the window OS or MAC OSX, as below:

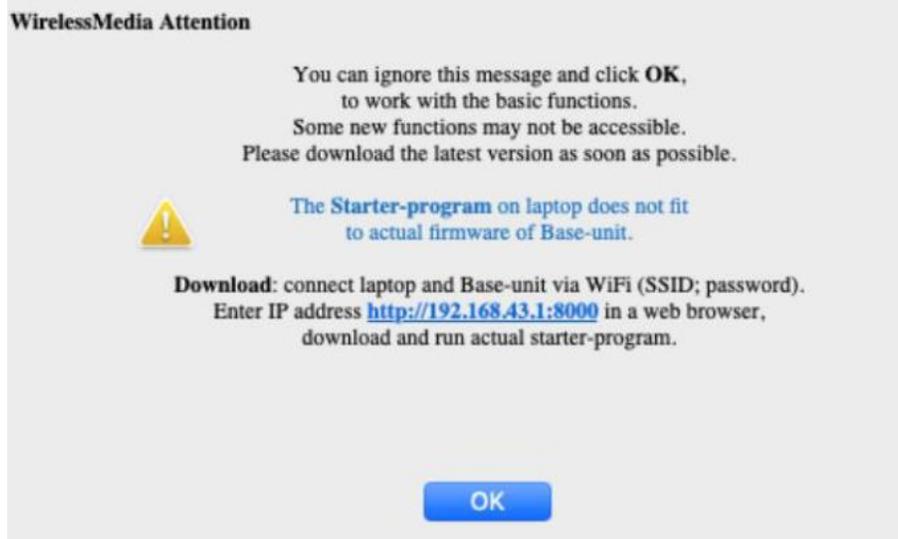
You can ignore this message and click **OK**,
to work with the basic functions.
Some new functions may not be accessible.
Please download the latest version as soon as possible.



The **Starter-program** on laptop does not fit
to actual firmware of Base-unit.

Download: connect laptop and Base-unit via WiFi(SSID; password).
Enter IP address <http://192.168.43.1:8000> in a web browser,
download and run actual starter-program.

OK



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

10.2 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.



2. 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.

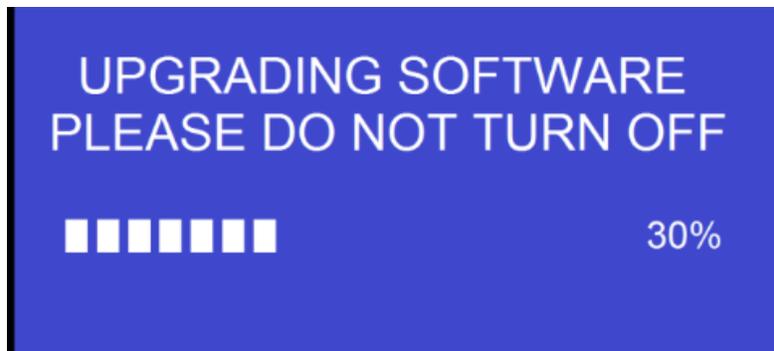
Zenty QuickShare recognizes the “update.img”-file at a plugged-in USB stick automatically and starts the “Full Update” procedure.

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 temporarily black out.

If the progress bar stops at 1%, use another USB stick as 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 webserver console menu.

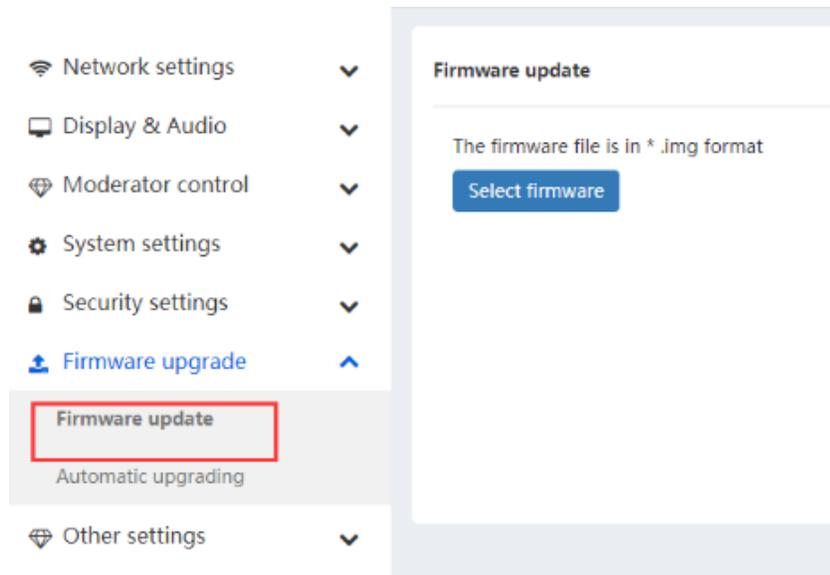
All data of configuration will be lost. So that you do not have to re-configure all data in an elaborate process, therefore note all settings within the Sub-menus before doing Factory Reset.

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.

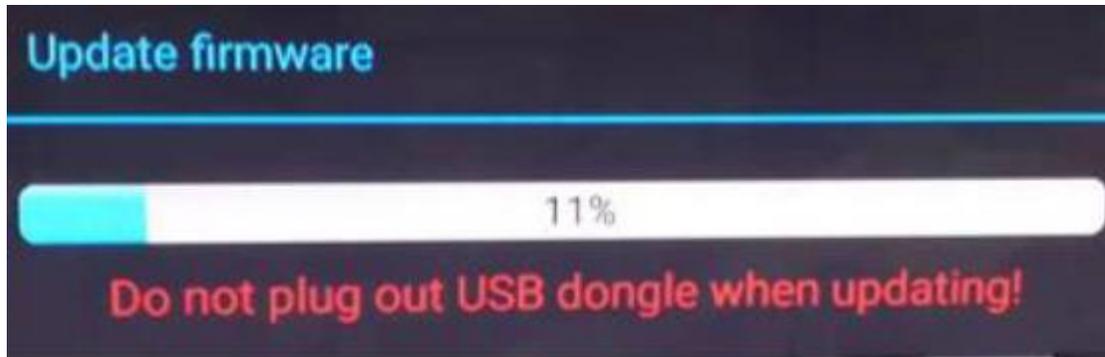


10.3 Upgrading and Pairing of Dongle

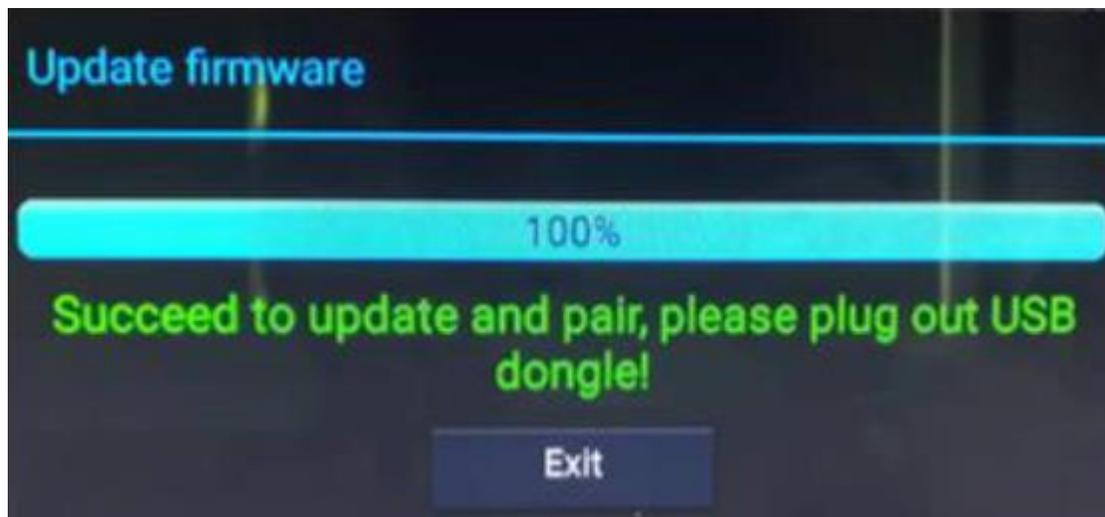
1. Plug the dongle to either of the two USB port of ZT-QS200 to be updated. It will automatically show up a message to indicate if the installed firmware of dongle is older, and needs to be upgraded.

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.

10.4 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.

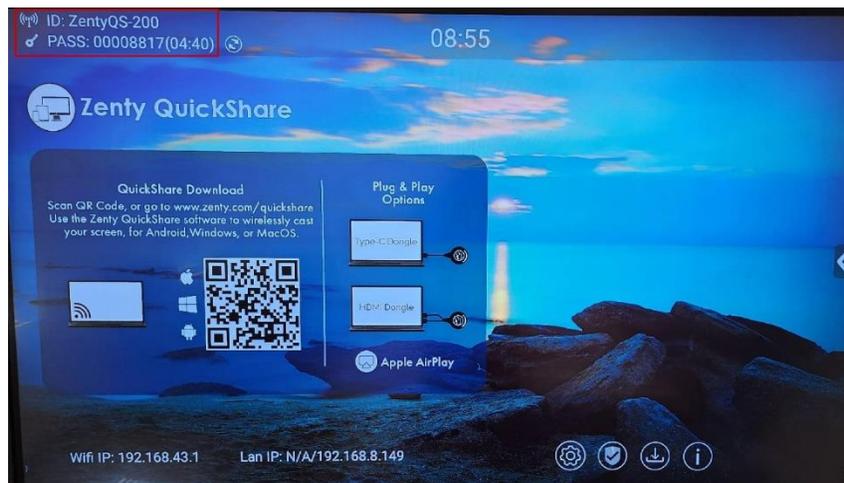
2. Click the “Download” icon  in “Home Page”.



3. The Launcher “ZentyQuickShare” 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 ZT-QS200’s SSID and enter password in homepage.



2. Open Browser and enter WiFi IP: 192.168.43.1:8000.
3. Click to enter “Launcher” download webpage.
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.

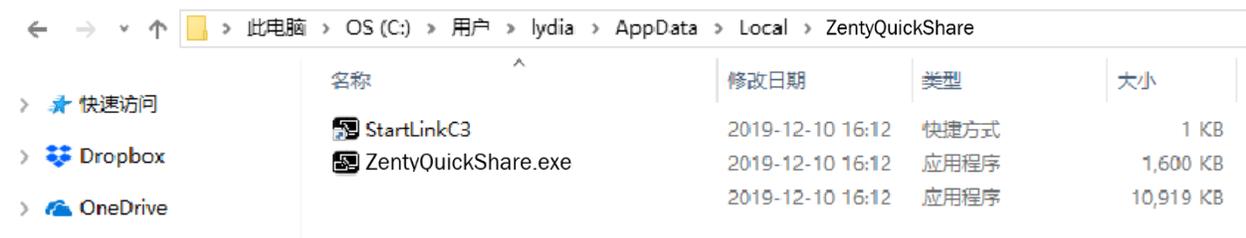
The Launcher program " ZentyQuickShare for Windows" and " ZentyQuickShare Pro for Windows" includes by default an additional virtual driver "ExtendedDesktop" to optionally install the Windows 10 Extended Desktop functionality, if they are is needed. This may require admin rights.

10.5 Clean Left Files of Older Versions of Launcher Program in Laptop

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

Steps:

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



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”.
3. Right-Click on the “*.service” or “*.serviceC3”, for example right-click on “ZentyQuickShare.exe”as shown below, and click to End Process Tree.
4. Check again the task manager, to be sure there is no more any “Zenty QuickShare” programs still running in the task manager. And check again to be sure there is no more any “ZentyQuickShare” in the C:\Users***(username)\AppData\Local\” ZentyQuickShare”.
5. Execute the actual version of Launcher program.

Upgrading progress is completed.

11. WiFi Recommendation Setting

11.1 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, 16

11.2 Check the WiFi RSSI on Dongle

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.

12. Troubleshooting

Here you can find some fundamental problems and possible causes, which can be happen during the use of “Zenty QuickShare”. Find out the problem you’ve encountered in the table below and apply the solution.

Problem	Cause	Solution
Use “ZentyQuickShare for Android” application in Android device or Airplay on IOS device, and it can't find base unit device.	WIFI password of base unit changed when android or IOS device is connected to the WIFI of base unit.	Reconnect the mobile by entering password showed on home screen.
The image quality on the main display screen is not good.	The quality or length of the cable between the Base Unit and the display or the connection between these two.	<ul style="list-style-type: none">● Replace the cable● Use another cable.● Check the cable to be fasten properly.
	Improper resolution for the main screen. WMB1 could output 3840x2160_60Hz, 3840x2160_50Hz 3840x2160_30Hz, 1920x1080_60Hz, 1920x1080_50Hz, 1920x1080_30Hz	<ul style="list-style-type: none">● Change the resolution on the Setting configuration. And match it to the native resolution of the main screen. See chapter 7.

<p>Bad wireless connection. The connection between the transmitter and the base unit is not stable.</p>	<p>Wi-Fi problems.</p> <ul style="list-style-type: none"> ● Interference in the radio channel. ● Overload in the radio channel. <p>"ZentyQuickShare" does not automatically jump to other channels when there are changes in the RF environment.</p>	<ul style="list-style-type: none"> ● Use a Wi-Fi scanner to find a free wireless frequency and channel and select it via the setting configuration. ● Regularly check the RF environment if there are frequently changes in Wi-Fi networks in your environment.
	<p>Low signal strength:</p> <ul style="list-style-type: none"> ● Metal cabinets, walls, construction elements, ...can cause reflections deteriorating the wireless signal. ● Obstacles between dongles and Base unit cause lowering of the wireless strength and quality. 	<ul style="list-style-type: none"> ● Put the base unit closer to the main screen. ● Change the orientation of the antennas at the rear panel of base unit to the transmitter direction. ● Remove or limit as much as possible all obstructions between the transmitters and base unit. ● Avoid to place the Base-unit in (metal) cabinets, suspended ceilings, under tables or in adjoining rooms.
<p>Can't get the "ZentyQuickShare" run when plug the transmitter to lap-top</p>	<ul style="list-style-type: none"> ● When you are using "ZentyQuickShare" for the first time on your laptop or for guests, you have to copy the Launcher program "ZentyQuickShare windows. Exe" or "ZentyQuickShare macOS. app" for first on your Laptop /PC. Run this Starter-program. You can run the Starter App without Admin-rights. 	<p>There are 2 possibilities to load the Launcher program, see chapter 7.4. Best is: download the App via LAN or Wi-Fi of Base-unit. When the Launcher program is preinstalled one time, "ZentyQuickShare" is ready to use later immediately.</p>
	<ul style="list-style-type: none"> ● Bad connection at USB port on the lap-top 	<ul style="list-style-type: none"> ● Reconnect to the USB port ● Try another USB port ● Reboot the lap-top
	<ul style="list-style-type: none"> ● Some types of USB devices might be blocked as the company policy. ● USB port setting on the lap-top might limit the usage of high power USB device when on battery power. 	<p>If possible, change the USB port policy on the lap-top</p>

<p>Low video performance (sharpness, audio and video dropouts, video stream is jerking, ...)</p>	<ul style="list-style-type: none"> ● The media-player is not ideal. ● The video quality also depends on the computing power of the PC / laptop and the interaction and CPU load with other running software applications. ● A laptop in battery mode can be switched to reduced computer power, to save energy. The transmission of HD video requires a certain amount of CPU power to guarantee the optimum quality of the transmission. 	<ul style="list-style-type: none"> ● 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.
<p>Video is not shown on screen</p>	<p>The content use HDCP</p>	<ul style="list-style-type: none"> ● ZentyQuickShare input can't support showing HDCP source. If possible, connect
		<p>the source device to local HDMI input at base unit.</p>
	<p>The display cable (HDMI) is not correctly connected.</p>	<ul style="list-style-type: none"> ● Insert the display cable to the display and the Base-unit.
	<p>The displays is switched off.</p>	<ul style="list-style-type: none"> ● Switch on the display.
	<p>The Base-unit is in standby mode, "Power-LED" is flashing at Base unit. Power-supply is missed.</p>	<ul style="list-style-type: none"> ● Power off and on again or insert a dongle into laptop.
<p>When using window 7 the following message about the Window Aero color scheme appears "Windows has detected your computer's performance is slow. This could because these are not enough resources to run the windows Aero color scheme. To improve... "</p>	<p>ZentyQuickShare uses resource from the GPU. In combination with other programs which do so, Window 7 sometimes shows this message suggesting to disable Aero to improve the performance of lap-top.</p>	<ul style="list-style-type: none"> ● It's safe to ignore this message and choose "Keep the current color scheme."
<p>Your content is removed from the display and the LEDs on the button are blinking</p>	<p>Connection to the Base Unit is lost.</p>	<p>ZentyQuickShare tries to restore the connection automatically. If it fails, the LEDs on the button start blinking red. Unplug the button from your lap-top and try a new button.</p>

Nothing is shown on the displays at all	The displays are switched off.	Switch on the display
	The display cable is not correctly connected	Inspect the display cable to the display and the Base Unit
	The Base Unit is in standby mode	Briefly push the standby button on the Base Unit or power off and on again the Base Unit.
No LAN connection with the Base Unit	Wrong IP address	IP address is not within LAN range
		DHCP is not enabled.
No Wi-Fi connection between mobile device with Base Unit	Wrong Wi-Fi frequency	Check mobile device to select the correct 2.4GHz or 5GHz
	Wrong SSID and password	Enter the correct SSID
No audio when transmit local file to Base Unit	Unsupportive audio format, including Dolby MS11, DDCO DTSLBR, DTSE, DTSNeoUltra, SRS-THEATERSOUND, DTS_StudioSound3D, DTS_HD,	If possible, reformat it to the other audio format, like DD, DD+, HE-AAC, DTS DMP, WMA, DRA, COOK
There is no sound at main-display.	No connected audio device.	Make sure, the audio is turned on.
	Volume is set to OFF.	Adjust level in menu configuration
		ZentyQuickShare console in on webserver settings.
	The volume level is set too low in the options of the "ZentyQuickShare" Launcher program on PC.	Adjust the volume in the "WirelessMedia" Launcher program on PC.
	Audio signal may be muted.	Click with right-mouse button at speaker icon In task-bar and switch on.
	The volume level is set too low.	Adjust the volume level at Options in menu of ZentyQuickShare
	Audio is muted in mixer of volume in taskbar.	Right-mouse click at speaker icon in taskbar, open mixer and unmute ZentyQuickShare 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 ZentyQuickShare.app.	<ul style="list-style-type: none"> You need Admin-password Go to the macOS System Preferences and select the "Security & Privacy" tab. Find the "allow to run/install the sound-flower" there click on "Allow" next to "Matt Ingels", in order to allow this sound-flower to install on the Mac Book. Run the ZentyQuickShare.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 "ZentyQuickShare for Android" .	Due to the limit of the Android system, Android doesn't provide an interface to capture the audio. In this case, there is no sound when mirroring the video.	Use dongle or Apple Airplay to do mirroring when necessary.
Can't update firmware of the base unit.	Flash disk format is NTFS	Please re-format the flash disk to be FAT format to update it.
Can't work airplay with Macbook/Iphone/iPad.	Operation System Requirement Mac OS 10.9 IOS 8.0 and later (ZentyQuickShare app)	<ul style="list-style-type: none"> To use AirPlay, you must connect the iOS device to the Wi-Fi of ZentyQuickShare and enable the AirPlay feature in the Control Center. Update the iOS device to a newer operating system.
Poor Video-quality with AirPlay .	There are 2 states for AirPlay: a.) Mirroring: 1: 1 copy of the screen b.) Streaming: Videos (Internet, Youtube); the image will not be displayed on the iOS device. => picture is jerky	Reduce "Quality! In settings of Youtube, for example from "Automatic" to 720p.
Can't work with Android device?	Operation System Requirement Android 2.3 and later (ZentyQuickShare app)	Update to the later OS

13. Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzine to clean.

14. Warranty

If your product does not work properly because of a defect in materials or workmanship, our company (referred to as “the warrantor”) will, for the length of the period indicated as below, “Parts and Labor (5) Years”, which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” limited warranty period, there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

15. Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

16. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in material or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis-adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER “LIMITED WARRANTY COVERAGE”. THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.) PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.



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