Actiontec®
Creative Solutions for the Digital Life

ScreenBeam 750 Wireless Display Receiver

Firmware 2.15.x.x

User Manual

V1.00

For Catalog # SBWD750E/SBWD750W

Table of Contents

Part I. Getting Started 1
1.1. Contents in the Box 1
1.2. Meeting ScreenBeam 750 1
1.2.1. ScreenBeam 750 2
1.3. Compatible Standards 2
1.4. System Requirements 3
1.4.1. Receiver Installation 3
1.4.2. Compatible Devices 3
Part II. Installing the Receiver 4
2.1. Connecting the Receiver to an HDTV 4
Part III. Setting Up for the First Time 6
3.1. Connecting via Windows 8.1 6
3.2. Connecting via Windows 10 9
3.3. Connecting via Miracast™ 13
3.4. Tips for Optimal Performance 14
Part IV. Display and Control Options 15
4.1. Display Mode 15
4.2. USB over Network Control 16
4.3. Restore to Default 16
Part V. Device Management for IT Administrator 17
5.1. Log into the Local Management Console 17
5.1.1. When SSID Broadcast is Disabled 17
5.1.2. When SSID Broadcast is Enabled 21
5.1.3. Log Out 24
5.2. Changing Local Management Console's Display Language 24
5.3. Configuring the Receiver 25
5.3.1. Renaming the Receiver 25
5.3.2. Setting up the Login Username and Password 26
5.3.3. Setting up the Receiver's Display Language 27
5.3.4. Modifying the Receiver's Host Name 27
5.3.5. Setting up Time Zone 28
5.3.6. Setting up PIN Pairing Method 29
5.3.7. Managing HDMI/VGA Port Output 30
5.3.8. Waking up the Receiver 31
5.3.9. Resetting Wi-Fi Driver on Disconnection 32
5.3.10. Setting up HDCP Encryption 32
5.3.11. Setting up the VGA Compatibility Mode 33
5.3.12. Adjusting TV Screen Size 34
5.3.13. Setting up Output Aspect Ratio 35
5.3.14. Setting up One Touch Play (HDMI-CEC) 36
5.3.15. Updating the Receiver's Background Image 36

5.3.16. Updating the Receiver's Screensaver Image....37
5.3.17. Setting up Network Information Display on TV Screen....39
5.3.18. Modifying the Receiver's Wireless Network Name (SSID)....39
5.3.19. Setting up Broadcast Network Name....40
5.3.20. Setting up Wireless Connection Properties....41
5.3.21. Setting up the Receiver's IP Address....42
5.3.22. Specifying a DNS Server for the Receiver....43
5.3.23. Specifying ScreenBeam CMS for the Receiver....44
5.3.24. Specifying a Local Management Communication Port for the Receiver....45
5.3.25. Rebooting the Receiver....46
5.3.26. Resetting the Receiver to Default....46
5.4. Updating Firmware for the Receiver....47
Appendix I. Troubleshooting and FAQs....50
Troubleshooting....50
FAQs....51
Appendix II. Specifications (Model: SBWD100B)....57
Appendix III. Notices....59
Warranty....59
GPL Info....59
EU CE Declaration of Conformity....59
Technical Support....60

Part I. Getting Started

Thank you for your purchase of Actiontec's ScreenBeam 750 Wireless Display Receiver (hereinafter refer to as "ScreenBeam 750").
ScreenBeam 750 lets you wirelessly stream what's on your Wi-Fi Certified Miracast™ compatible device to your HDTV, including movies, videos, photos, music, and more. The receiver frees your eyes from a tiny screen.
The receiver boasts some great features, including fast connect, enhanced security and IT manageability, smooth video playback, 1080p full HD support, ultra-low delay, Windows 8.1/10 optimization, versatile compatibility, low power consumption, and more.

For optimal wireless display experience, we strongly recommend you update your receiver to the latest firmware. Check firmware update now on http://actiontec.zendesk.com

1.1. Contents in the Box

Contents in the Receiver's package are listed below:

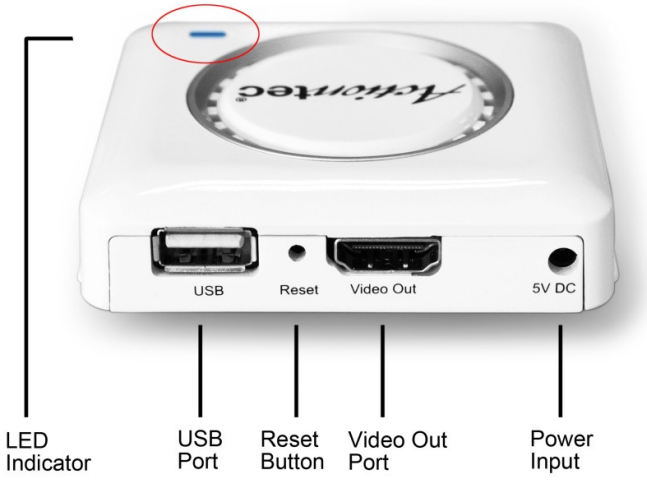
- ScreenBeam 750 receiver (1)
- HDMI® Cable (1)
- AC Power Adapter (1)
- HDMI-to-VGA Adapter & 3.5mm audio cable (1)
- USB-to-Ethernet adapter (SBETH100) OR USB-to-WLAN adapter (SBT100U) for remote management
- Product documentation

1.2. Meeting ScreenBeam 750

This manual is applicable to the following catalog #s:

- SBWD750E – Ethernet version
- SBWD750W – Wireless version

1.2.1. ScreenBeam 750



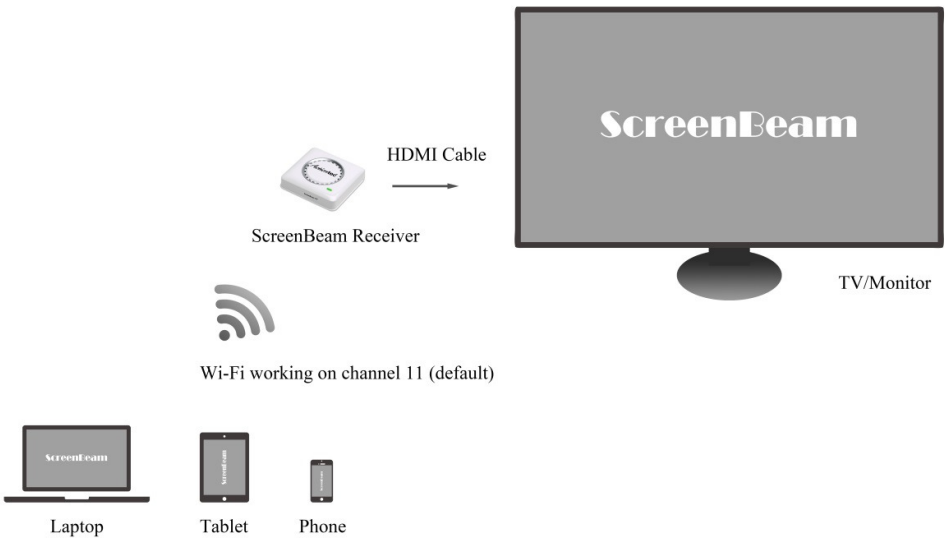
- **Video OUT**, for connecting to HDTV/projector with an HDMI port for video and audio output
- **USB**, for provisioning CMS connection data, and USB over network control (UIBC)
- **RESET**, for resetting the receiver to default settings
- **5V DC**, for power supply
- **LED Indicator**, indicating power supply status

1.3. Compatible Standards

ScreenBeam 750 is compatible with the Miracast standard, which is hosted by most laptops, tablets, and smartphones running Windows 8.1/Windows 10 or Android 4.2 (and higher) systems.

Miracast is a peer-to-peer wireless screen display standard created by the WiFi Alliance. It allows a portable device like a laptop or smartphone to wirelessly send up to 1080p HD video and 5.1 surround sound to a compatible display, like an HDTV.

A Miracast compatible Ultrabook™, PC or Tablet device captures the audio and graphics data and encodes it as H264 video stream for transport. This information is then sent by the device via Wi-Fi through a Wi-Fi Direct connection to a receiver connected to the display device. The receiver then decodes the video signal and passes it to the TV display (or other display device).



1.4. System Requirements

System requirements for the receiver are shown below:

1.4.1. Receiver Installation

To install the Receiver, you must have the following items:

- A display device with one HDMI port (Type A) or one VGA port
- An available power outlet

1.4.2. Compatible Devices

The Receiver is compatible with the following devices:

- Wi-Fi Certified Miracast™ smartphones and tablets with Windows 8.1/10 or Android 4.2+
- Non Miracast ready laptops and PCs with ScreenBeam USB Transmitter (Windows 7 or higher)

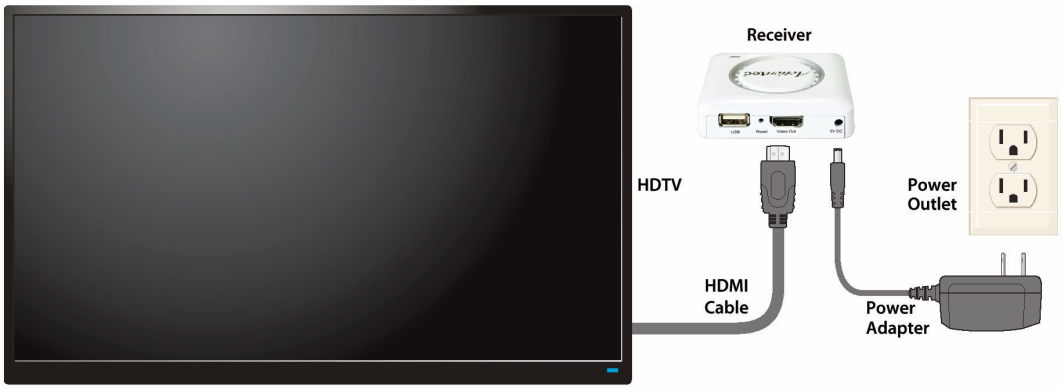
Part II. Installing the Receiver

This chapter explains how to connect the Receiver to an HDTV. Make sure you have all the contents from the Receiver's package available before starting.

2.1. Connecting the Receiver to an HDTV

It is quite easy and fast to set up the Receiver. You can complete the setup in just one minute. To connect the Receiver to an HDTV:

1. Get the **Receiver**, **AC power adapter**, and **HDMI cable** from the Receiver's package.
2. Plug one end of the HDMI cable into the HDMI port ("**Video out**") on the Receiver, and the other end into an available HDMI port on the HDTV.
3. Plug the connector of the power cord to the Receiver's power input port labeled "**5V DC**", and plug the power adapter to a power outlet.
   When Steps 1, 2, and 3 are complete, the hardware should be connected as shown in the figure below:



4. Turn on the HDTV and set it to display the input from the correct HDMI port (the one you have plugged into in Step 2).
5. Verify that the "**Ready to connect**" screen appears on the HDTV.

The Receiver is connected to the HDTV, and it is ready for use.

Note: Connections to other display devices are similar.

Part III. Setting Up for the First Time

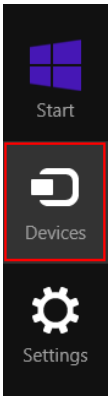
This chapter explains how to connect ScreenBeam 750 for the first time to the source device. There are three source device options: Windows 8.1, Windows 10, and Miracast™.

- For Windows 8.1 devices, please proceed to Section 3.1. "**Connecting via Windows 8.1**";
- For Windows 10 devices, please proceed to Section 3.2. "**Connecting via Windows 10**";
- For Android devices, please proceed to Section 3.3. "**Connecting via Miracast™**".

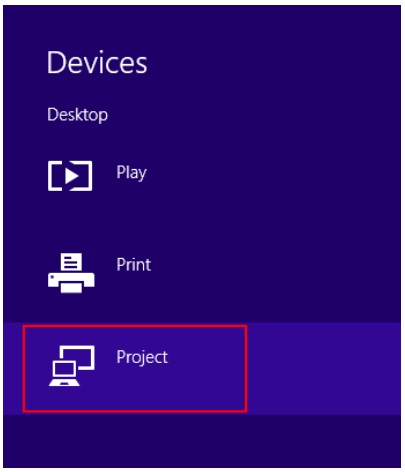
3.1. Connecting via Windows 8.1

This section explains how to connect a device running Windows 8.1 to ScreenBeam 750.

1. From the Windows desktop, go to the **Charms** menu and select **Devices** to open the **Devices** menu. You can also use the shortcut keys, **Windows** logo + **K**.

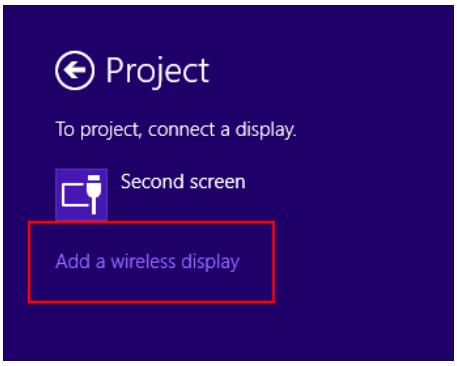


2. From the **Devices** menu, click **Project**.



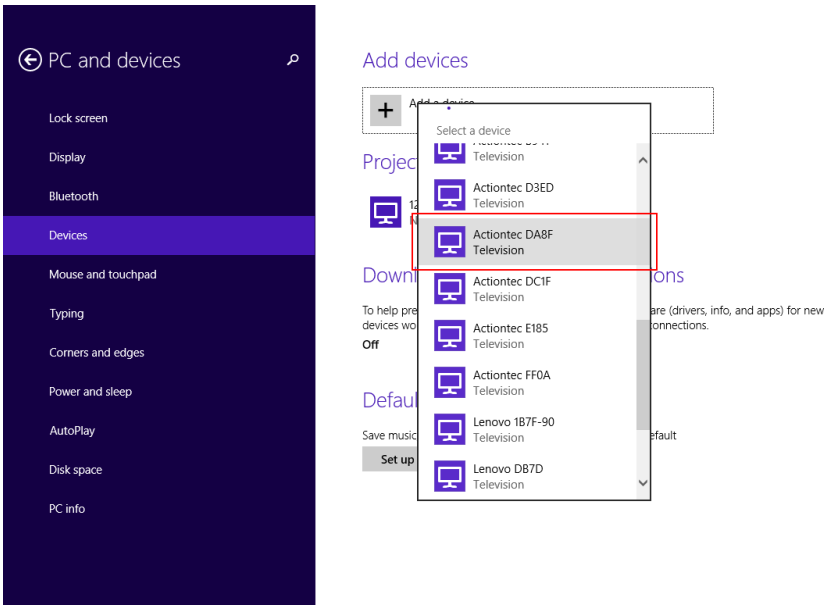
3. From the **Project** menu, select **Add a wireless display**. Windows will search for

available devices.

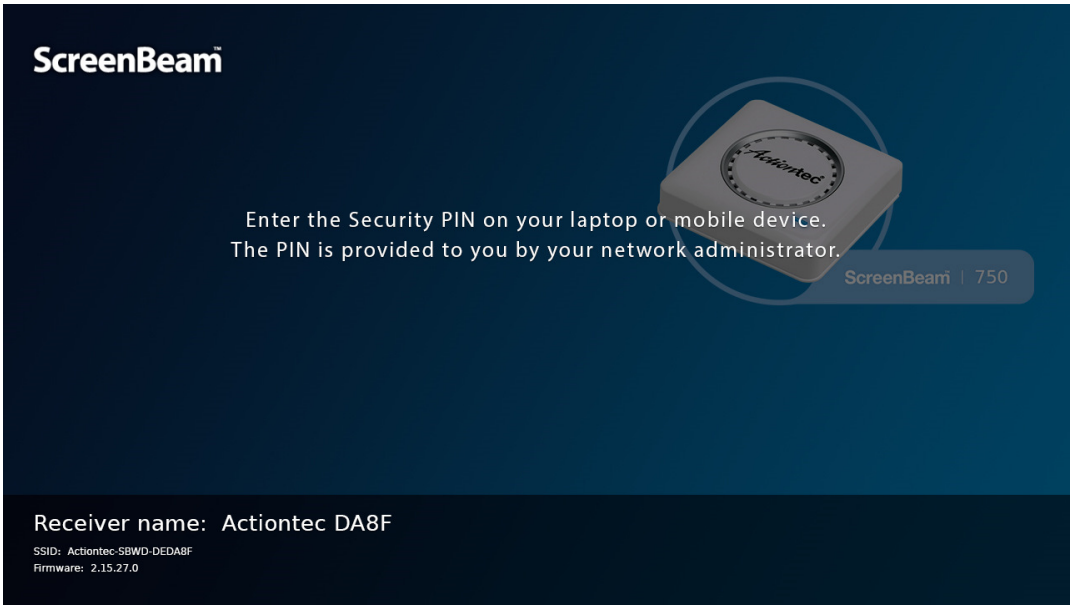


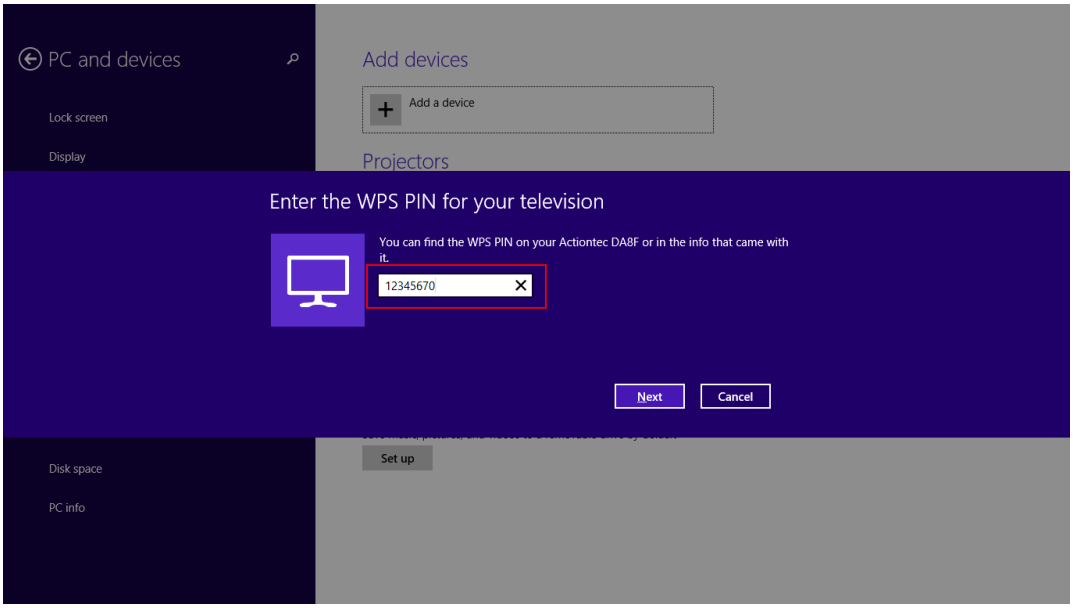
Note: If you are running Windows 8.1 and the screens above do not appear, update your Windows 8.1 device to the latest via the **Windows Update** application.

4. Select your receiver from the device list.

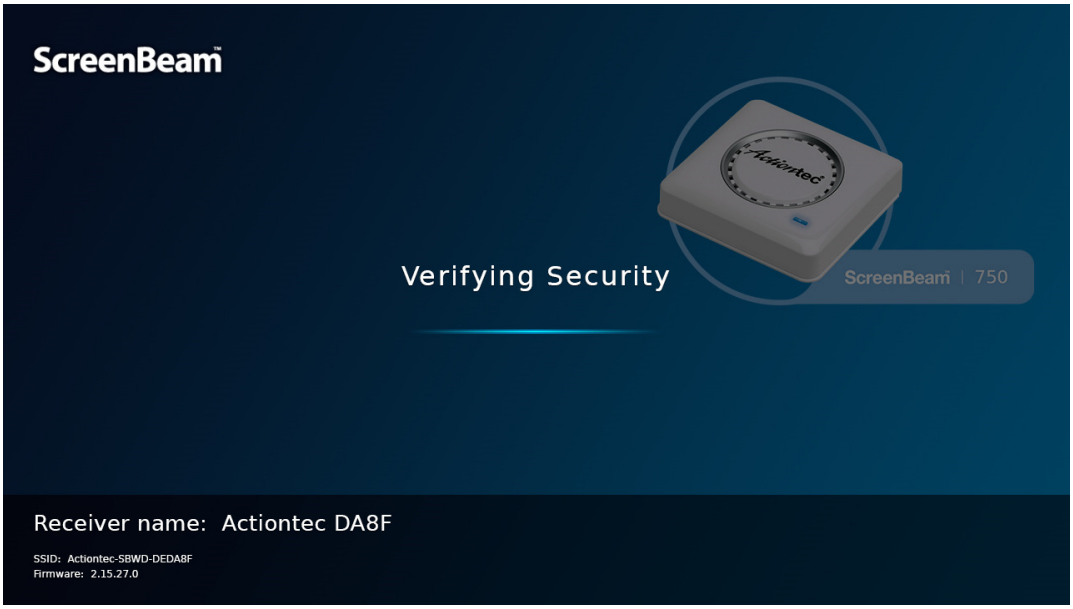


5. A PIN entry box is displayed on the screen of your Windows 8.1 device. Type the PIN provided by your network administrator in the PIN entry box and click **Next** to continue.
   Note:
   - By default, the security PIN is **"12345670",** if no PIN is displayed on the connected display device. You should obtain the security PIN from your network administrator.
   - If a PIN is displayed on the connected display device, you should type this PIN in the PIN entry box.


ScreenBeam
Enter the Security PIN on your laptop or mobile device.
The PIN is provided to you by your network administrator.
ScreenBeam | 750
Receiver name: Actiontec DA8F
SSID: Actiontec-SBWD-DEDA8F
Firmware: 2.15.27.0


PC and devices
Lock screen
Display
Add devices
Add a device
Projectors
Enter the WPS PIN for your television
You can find the WPS PIN on your Actiontec DA8F or in the info that came with it.
12345670
Next
Cancel
Set up
Disk space
PC info

6. The HDTV displays messages to show status of the connection.

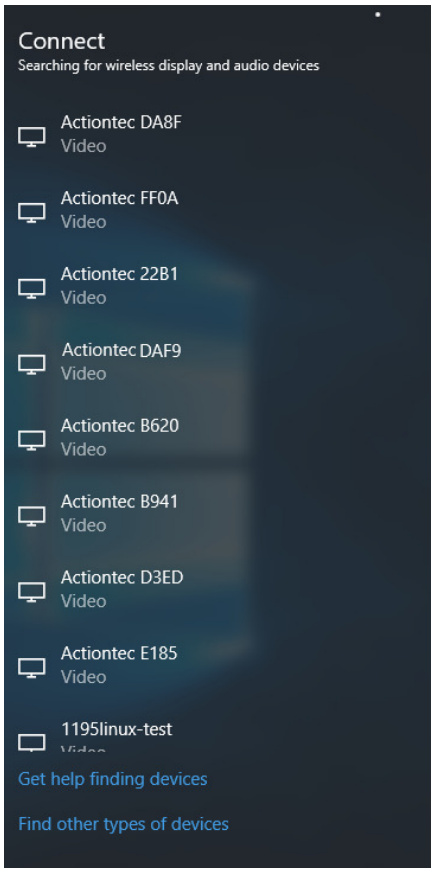


7. The device has connected to the Receiver. And the device's screen is displayed on the HDTV.

3.2. Connecting via Windows 10

This section explains how to connect a device running Windows 10 to ScreenBeam 750.

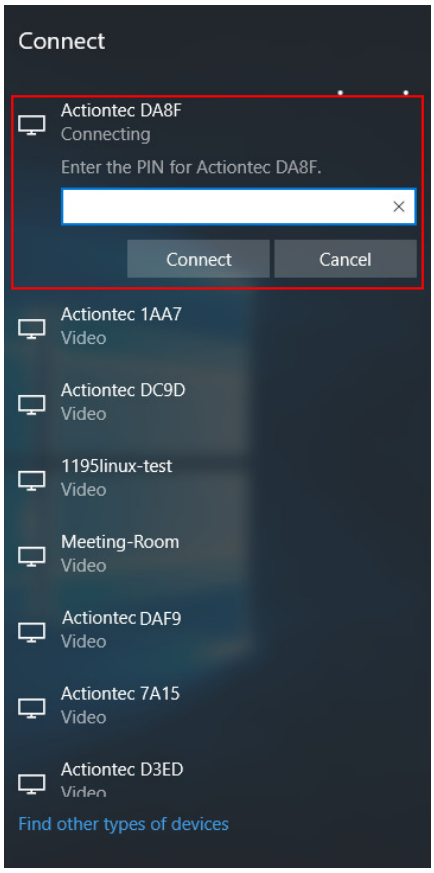
1. Press the shortcut keys, Windows logo + **K**, on your keyboard to display the wireless display receiver list.



Note: There are other ways to open the wireless display receiver list:

- Click the Start button, and then select **Settings** > **Devices** > **Connected devices** > **Add a device** to open the wireless display receiver list.
- Click the **Notification** icon on the task bar or press the shortcut keys, Windows logo + **A**, to open the **Action Center**, and then select **Connect** to open the wireless display receiver list.
- Press the shortcut keys, Windows logo + **P**, to open the **Project** menu, and then select **Connect to a wireless display** to open the wireless display receiver list.

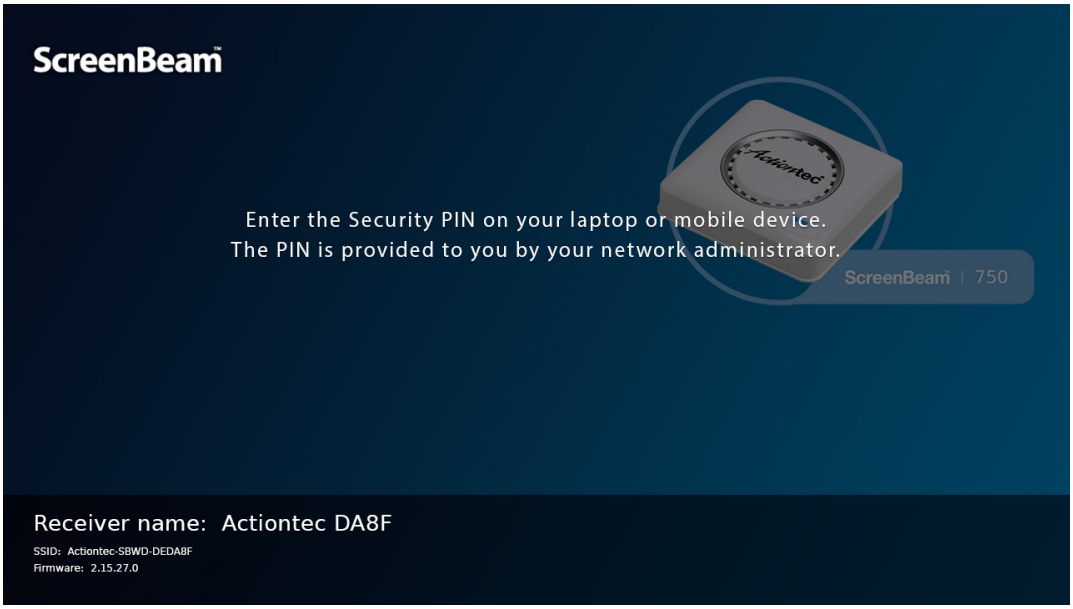
2. Select your receiver from the device list.

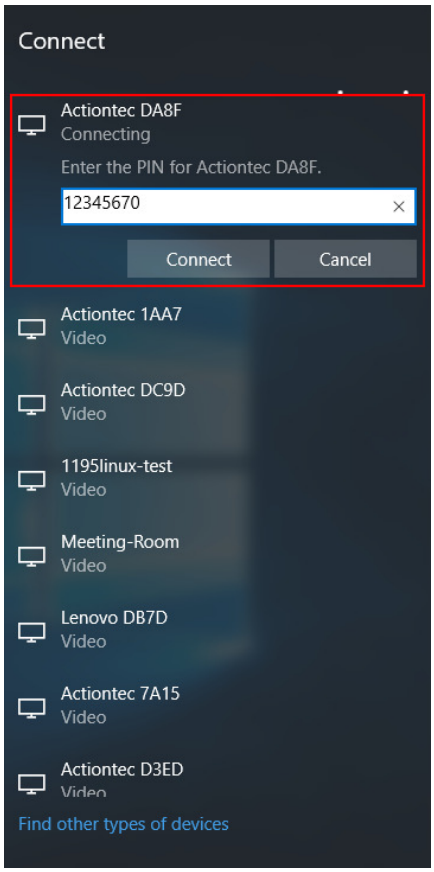


3. A PIN entry box is displayed on the screen of your Windows 10 device. Type the PIN provided by your network administrator in the PIN entry box and click **Connect** to continue.

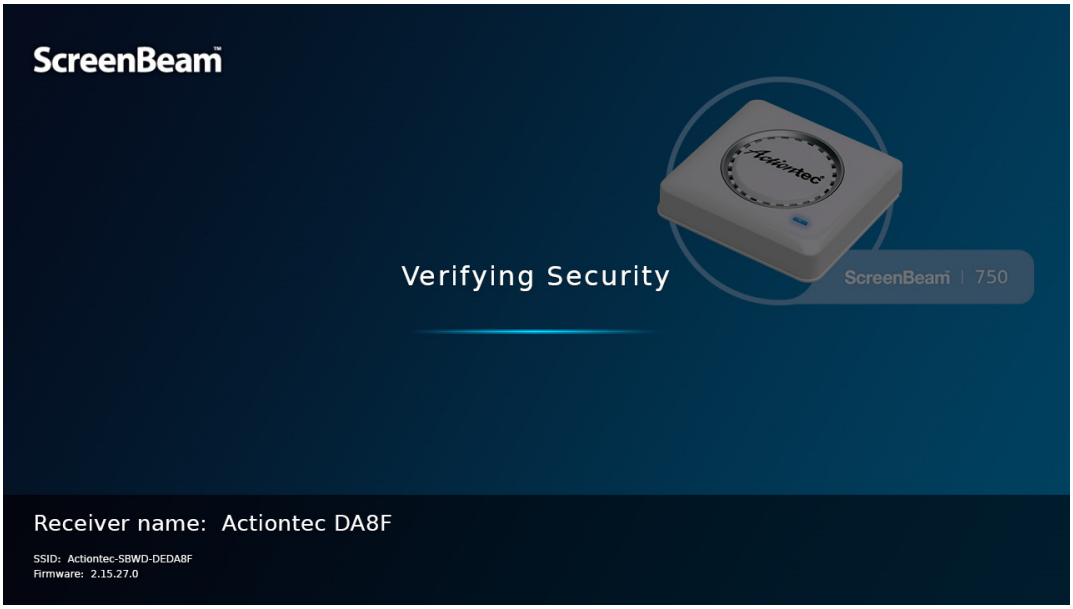
   Note:

   - By default, the security PIN is "**12345670**", if no PIN is displayed on the connected display device. You should obtain the security PIN from your network administrator.
   - If a PIN is displayed on the connected display device, you should type this PIN in the PIN entry box.


ScreenBeam
Enter the Security PIN on your laptop or mobile device.
The PIN is provided to you by your network administrator.
ScreenBeam | 750
Receiver name: Actiontec DA8F
SSID: Actiontec-SBWD-DEDA8F
Firmware: 2.15.27.0


Connect
Actiontec DA8F
Connecting
Enter the PIN for Actiontec DA8F.
12345670
Connect
Cancel
Actiontec 1AA7
Video
Actiontec DC9D
Video
1195linux-test
Video
Meeting-Room
Video
Lenovo DB7D
Video
Actiontec 7A15
Video
Actiontec D3ED
Video
Find other types of devices

4. The HDTV displays messages to show status of the connection.



5. The device has connected to the Receiver. And the device's screen is displayed on the HDTV.

3.3. Connecting via Miracast™

This section explains how to connect a Miracast™-enabled Android device, such as a smartphone, a tablet, or a game console, to the ScreenBeam 750. For the best performance, the Miracast™ device should be running the latest software.

1. On a Miracast™-enabled Android device, locate and open the Wireless Display

Application (check for the application under “**Settings**”).

Note: The name of the Wireless Display application depends on the device type and model. Refer to the device's user manual for more details.

2. The Wireless Display application scans for available devices. Select the receiver from the device list. You may be required to enter a PIN code.

   Note:

   - By default, the security PIN is **“12345670”,** if no PIN is displayed on the connected display device. You should obtain the security PIN from your network administrator.
   - If a PIN is displayed on the connected display device, you should type this PIN in the PIN entry box.

3. Type the PIN in the PIN entry box and tap **Connect** to continue.

4. Wait for the device to pair with and connect to your receiver. When it does, the device's screen will be displayed on the HDTV.

3.4. Tips for Optimal Performance

For optimal performance, you can try these tips:

- Keep the Receiver within line-of-sight of the source device. Doing this will help ensure the Receiver receives the best possible signal.
- The Receiver's optimal wireless range is within 30 feet from the source device. However, actual range and effectiveness depends on many factors, including other sources of interference and the building materials used in the surrounding structure.
- Avoid placing the receiver near wireless interference sources, such as electric fans, items with motors, microwave ovens, cordless phones.

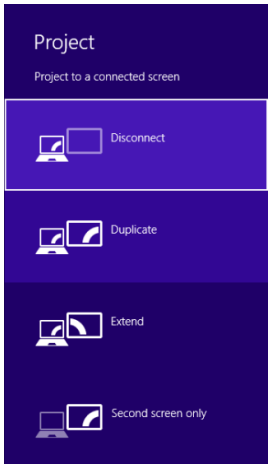
Part IV. Display and Control Options

This chapter describes the display modes and control options that are supported by the Receiver.

4.1. Display Mode

The Receiver supports three display modes when connected with a compatible wireless display application.

In Windows, press the **Windows** logo + **P** keys simultaneously (+ **P**) to launch the display options and select the desired display mode from the options.



- **Duplicate**

The **Duplicate** mode is used to display the same content on both the device's screen and the HDTV simultaneously.

Note: There may be minor delay between the content displayed on the HDTV screen compared to the device's screen. This is due to the current state of wireless display technology.

- **Extend**

The **Extend** mode creates a single, extended "screen" between the source device and the HDTV. When in the **Extend** mode, dragging windows to the right side of the device's screen displays those windows on the HDTV, while dragging windows to the left of the HDTV screen displays them back on the device's screen. This mode allows users to display selected content on the HDTV, while all other windows remain on the device's screen. When this mode is first selected, the HDTV displays only the Windows desktop.

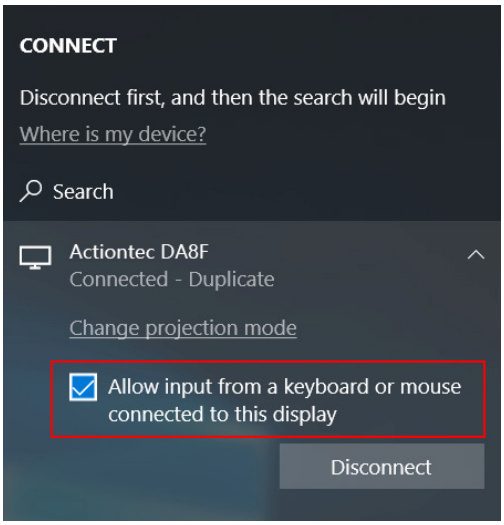
- **Second Screen Only**

The **Second Screen Only** mode causes the HDTV to be the only display for the device. You'll see everything on the connected screen, and your device's screen will be blank.

4.2. USB over Network Control

The Receiver's USB over network control (UIBC) feature allows the use of USB HID peripheral devices, either from the source device or from the USB device side. To connect a USB keyboard, mouse, or trackpad:

1. Plug the USB peripheral into the Receiver's USB port and wait for the device to be detected. This may take 10-15 seconds.
2. Connect your Windows 10 device to the receiver, and remember to check the **Allow input from a keyboard or mouse connected to this display** box.



3. Use the USB keyboard, mouse, or trackpad to control the source device.

Note: The USB over network control is available on Windows 10 devices only.

4.3. Restore to Default

To restore the Receiver's default factory settings:

1. Power on the Receiver, and wait until the "**Ready to Connect**" screen appears.
2. Hold down the Receiver's "**Reset**" button with a pin.
3. When the "**Reset to Default**" screen appears on the HDTV, release the "**Reset**" button.

The Receiver reboots, and it will be running with its default settings.

Part V. Device Management for IT Administrator

ScreenBeam 750 provides a local management console to manage the device. With the console, IT administrators can configure the receiver easily.

5.1. Log into the Local Management Console

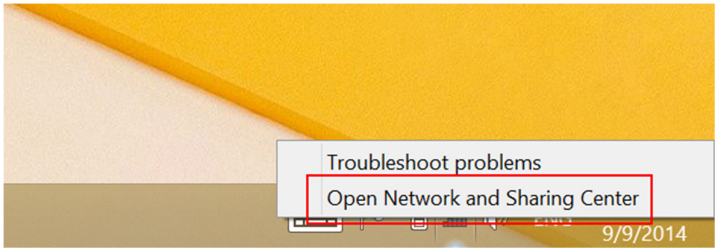
There are two situations: when the receiver's SSID broadcast is disabled and when it is enabled.
By default, the receiver's SSID broadcast is disabled.

5.1.1. When SSID Broadcast is Disabled

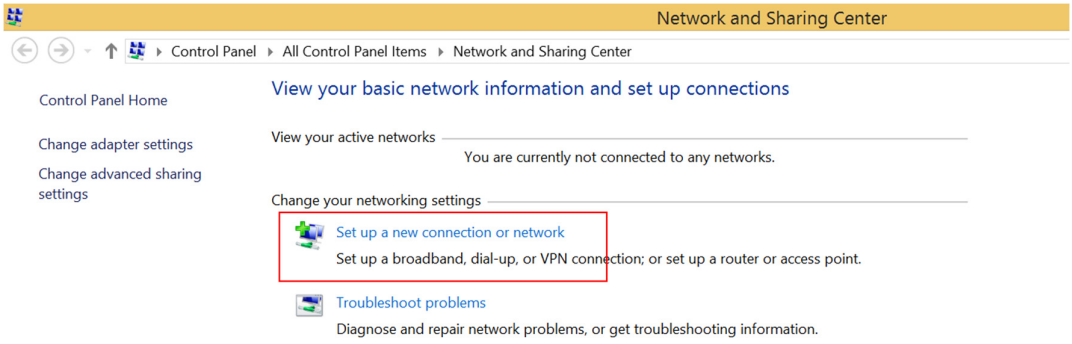
Follow the procedure below to log into the local management console:

1. Connect to the receiver's SSID from a wireless-enabled laptop (or other devices with Wi-Fi access ability and a web browser). You can find the receiver's SSID in the lower left corner of the **Ready to connect** screen.

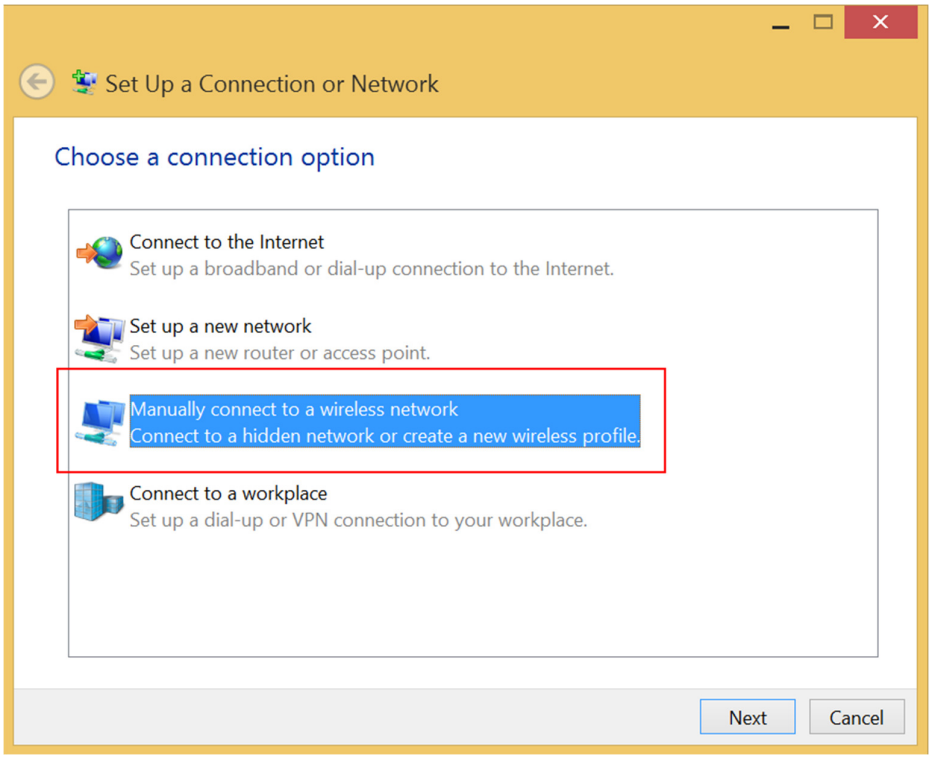
2. Right-click the Wi-Fi network icon on the taskbar and select **Open Network and Sharing Center**.



3. The **Network and Sharing Center** window appears. Click **Set up a new connection or network**.

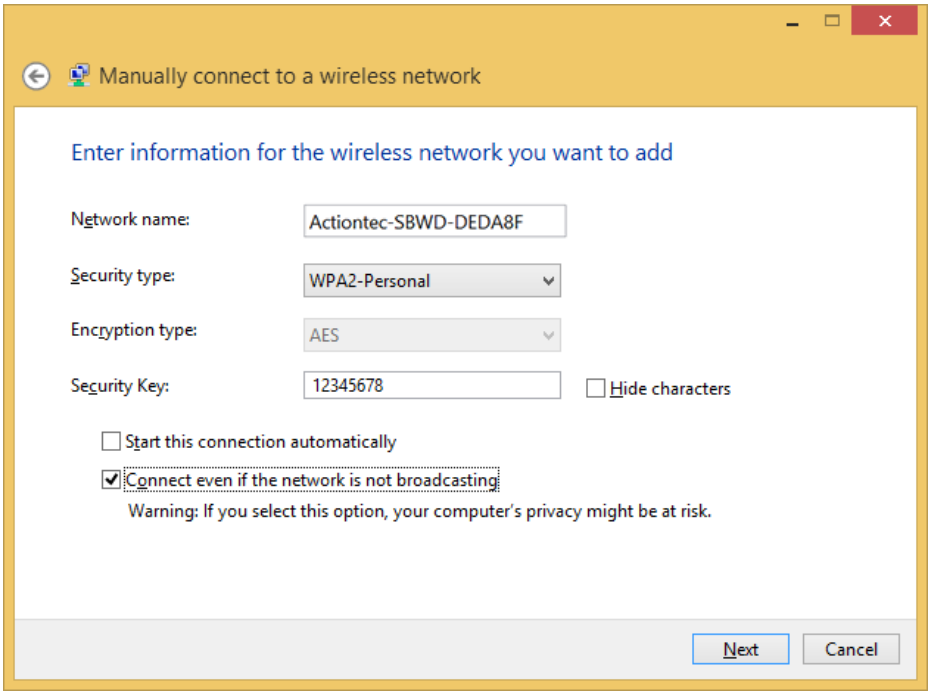


4. The **Set up a new connection or network** window appears. Choose the **Manually connect to a wireless network** option.

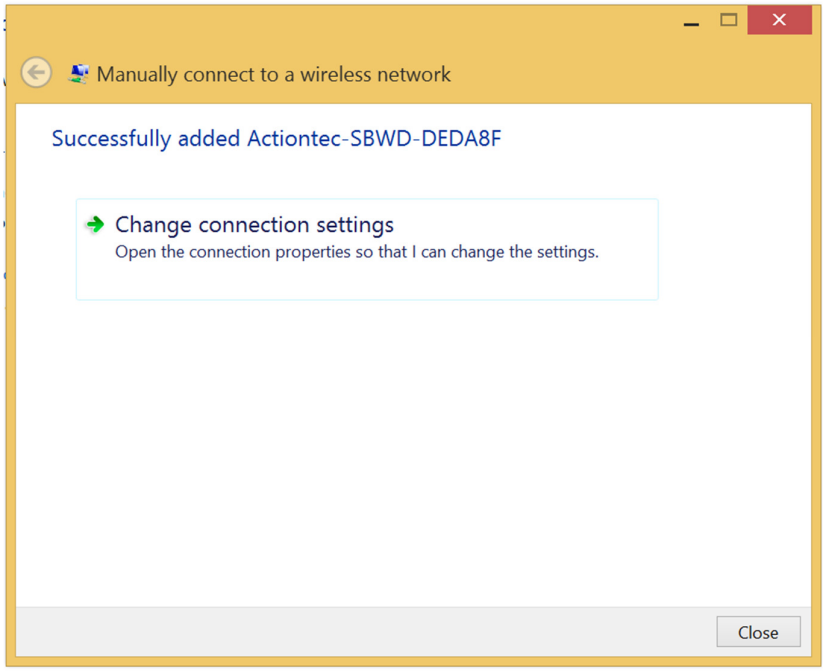


5. The **Manually connect to a wireless network** window appears. Type in or select the following information.
   Network name: The SSID of the ScreenBeam 750 receiver you wish to connect to.

Security type: WPA2 Personal
Encryption type: AES
Security key: 12345678 (default)



6. Check **Connect even if the network is not broadcasting**. Click **Next**.
7. You have added the receiver's SSID successfully. Click **Close**.



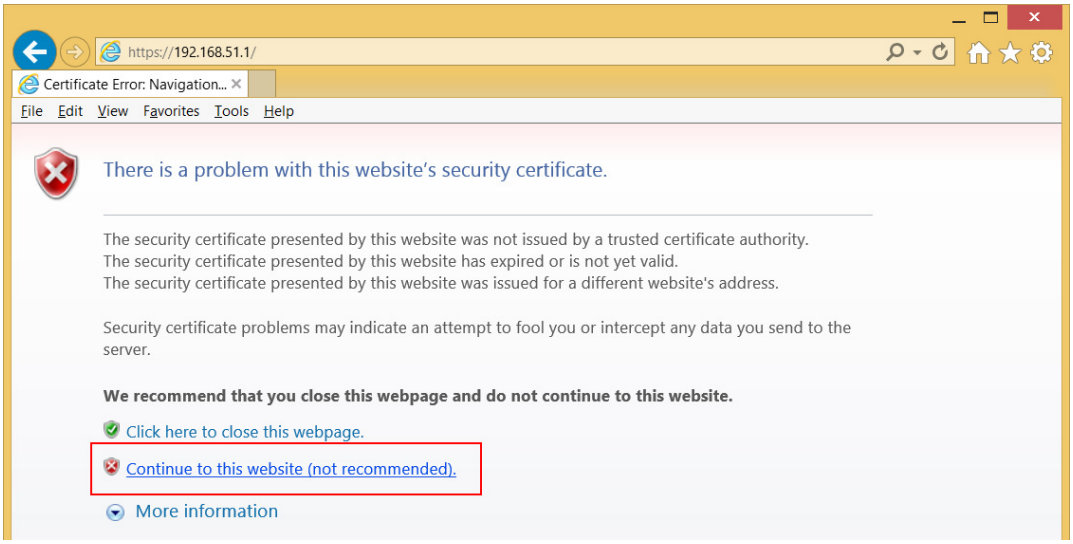
8. Your device will connect to the SSID automatically if you have selected "**Start this connection automatically**". Otherwise, go to the **Networks** page and connect to the SSID.

9. A URL (it is "**https://192.168.51.1**" in this example) is displayed on the connected display.

Note: This link will be displayed in full screen for a few seconds, and then it is displayed in the lower left corner.

10. Access the URL address ("**https://192.168.51.1**" in this example) with a web browser on the laptop.

You may see the security warning page, as shown below. This site is safe, please continue.



11. The web server login interface appears. Type the username and password in the **Username** and **Password** boxes and click the **Login** button.

Note:

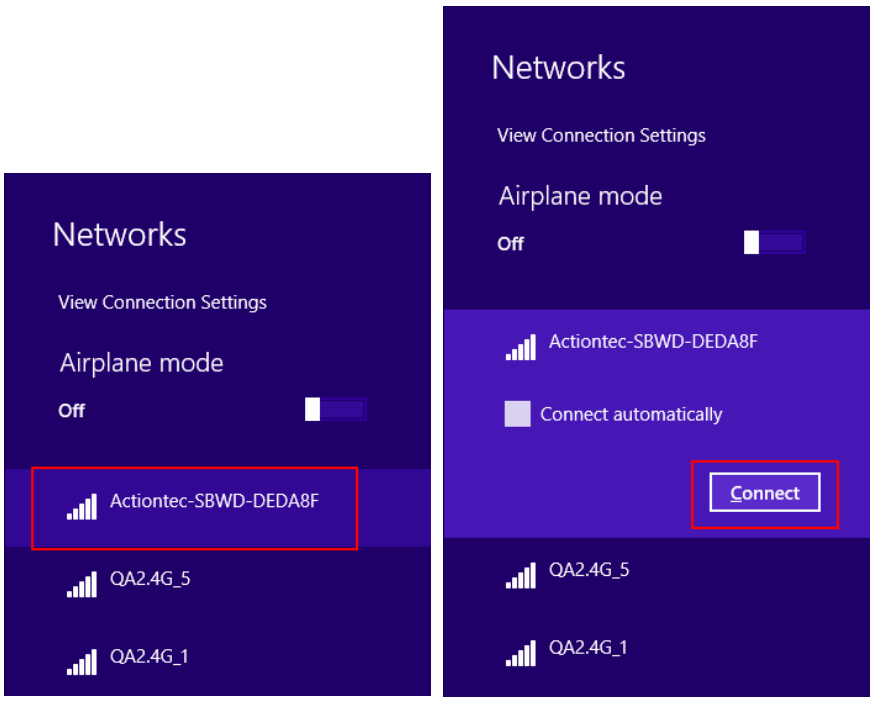
- By default, the Username is **"Administrator"** and Password is **"Actiontec"**.
- The username and password are case sensitive.

5.1.2. When SSID Broadcast is Enabled

Follow the procedure below to log into the local management console:

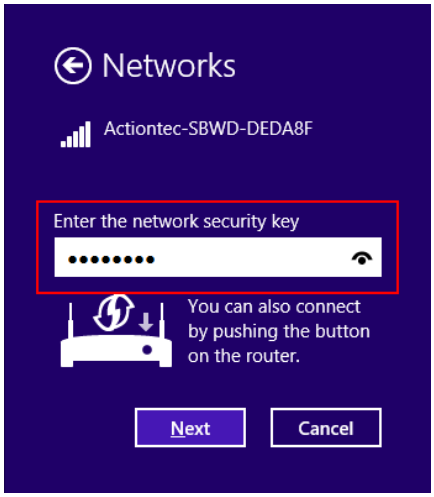
1. Connect to the receiver's SSID from a wireless-enabled laptop (or other devices with Wi-Fi access ability and a web browser). You can find the receiver's SSID in the lower left corner of the **Ready to connect** screen.

2. Click the Wi-Fi network icon in the notification area of your device, and find the receiver's wireless SSID. Click **Connect** to continue.



3. Type the network security key in the **Network Security Key** box and click **Next** to continue.

   Note: By default, the network security key is "**12345678**".

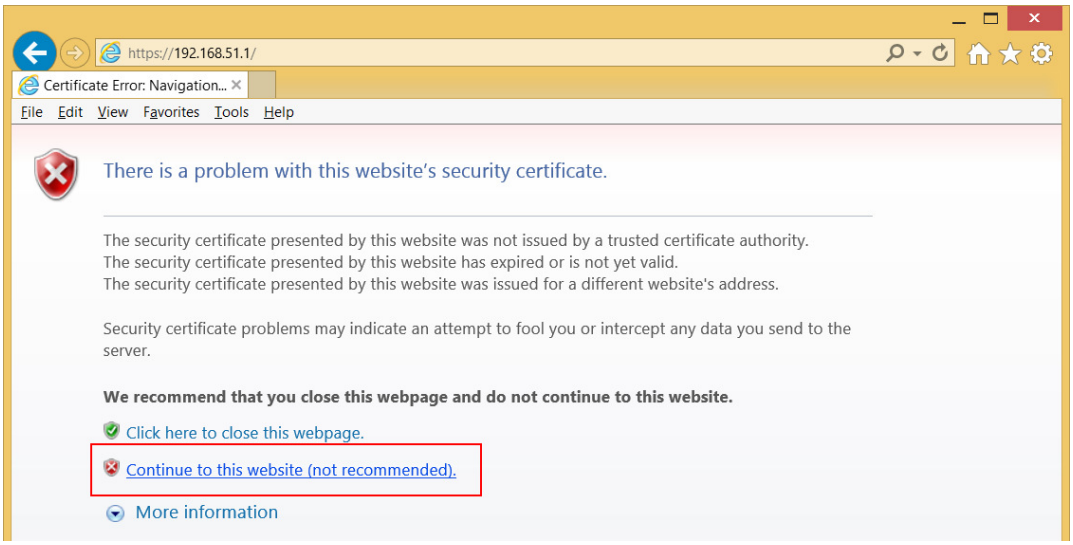


4. A URL (it is "**https://192.168.51.1**" in this example) is displayed on the connected display.

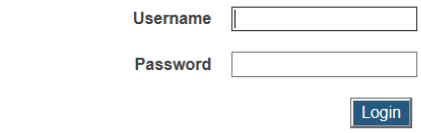
Note: This link will be displayed in full screen for a few seconds, and then it is displayed in the lower left corner.

5. Access the URL address ("**https://192.168.51.1**" in this example) with a web browser on the laptop.

You may see the security warning page, as shown below. This site is safe, please continue.



6. The web server login interface appears. Type the username and password in the **Username** and **Password** boxes and click the **Login** button.

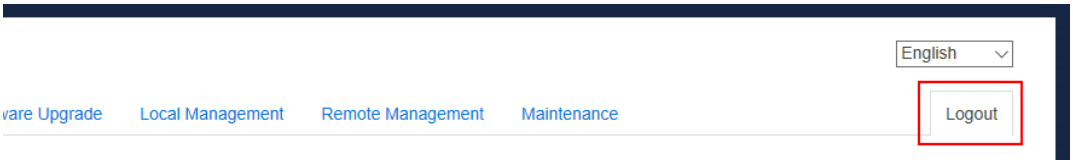


Note:

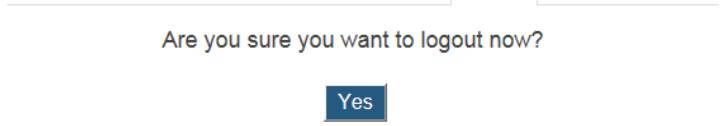
- By default, the Username is **"Administrator"** and Password is **"Actiontec".**
- The username and password are case sensitive.

5.1.3. Log Out

1. Go to the **Logout** tab page by clicking the **Logout** tab.



2. Click the "**Yes**" button to log out.

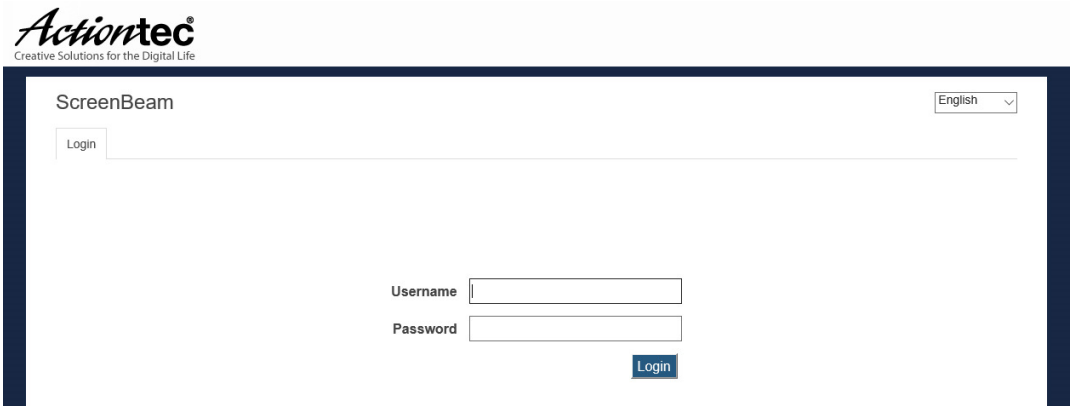


3. You will log out from the local management console immediately.

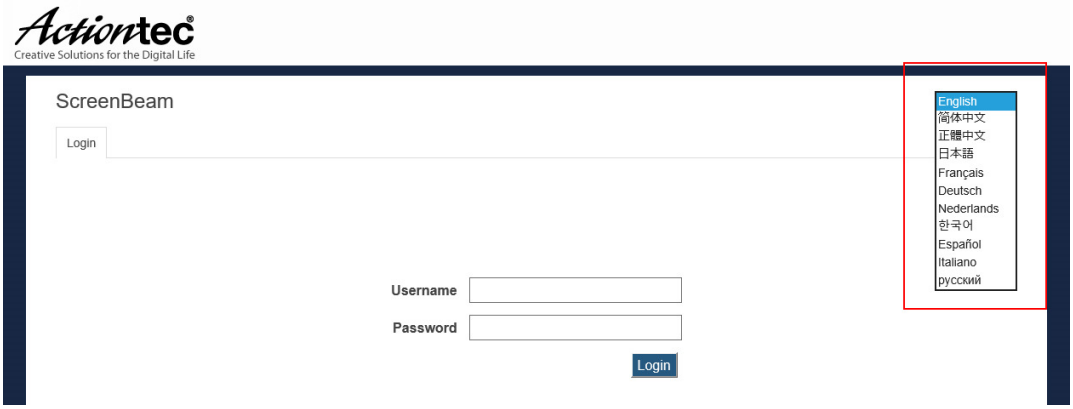
5.2. Changing Local Management Console's Display Language

Before you log into the local management console, you can change the console's display language. Follow the procedure below:

1. Open the local management console's login page. Refer to Section 5.1. **Log into the Local Management** for details.



2. On the upper right corner of the screen, select your language. Available languages are English, Simplified Chinese, Traditional Chinese, Japanese, French, German, Dutch, Korean, Spanish, Italian, and Russian.



3. The display language changes immediately.

Note: This setting changes the webpage's display language only.

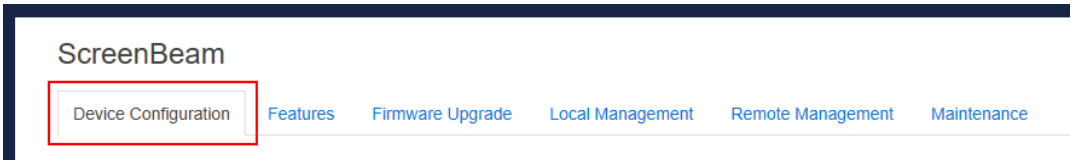
5.3. Configuring the Receiver

After you have logged into the local management console, you can configure ScreenBeam 750 on the webpage.

5.3.1. Renaming the Receiver

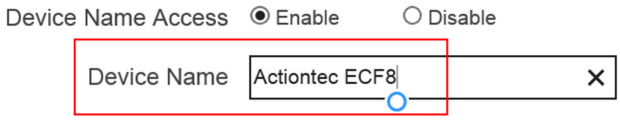
Follow the procedure below to rename your receiver:

1. Go to the **Device Configuration** tab page by clicking the **Device Configuration** tab.



2. Go to the **Device Name Access** line and set the **Device Name Access** to **Enable**.

3. Type a new name in the **Device Name** box.

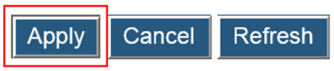


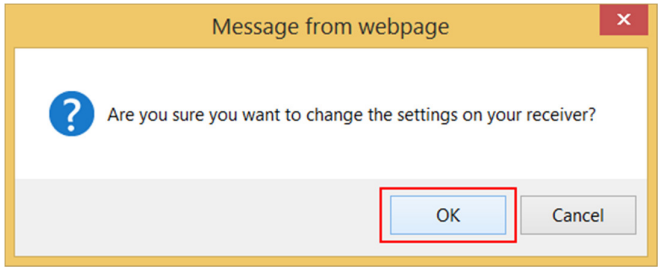
The receiver's **Device Name** supports the characters listed below:

- A-Z
- a-z
- 0-9

- ~!@#$%^&*()_+{}|:?\-=[];',./
- Japanese characters with Unicode in the following range: **\u3040-\u30FF**, **\u31F0-\u31FF**, and **\u4E00-\u9FBF**.

4. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



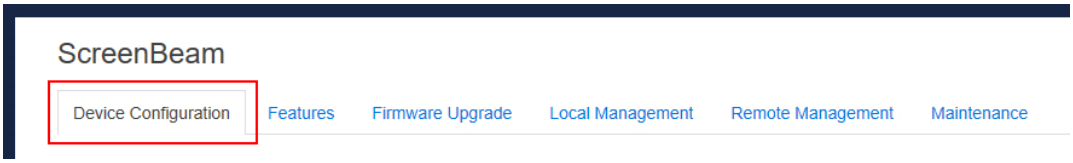


Note: New settings take effect immediately.

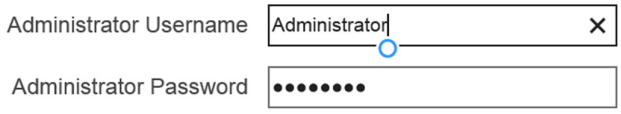
5.3.2. Setting up the Login Username and Password

Follow the procedure below to modify the username and password for user login:

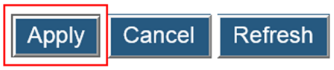
1. Go to the **Device Configuration** tab page by clicking the **Device Configuration** tab.

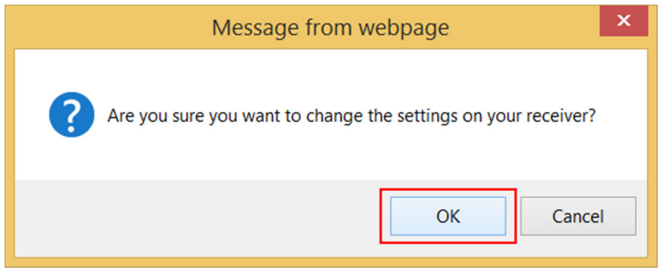


2. Go to the **Administrator Username** and **Administrator Password** lines, and type new username and password in the **Administrator Username** and **Administrator Password** boxes, respectively.



3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.

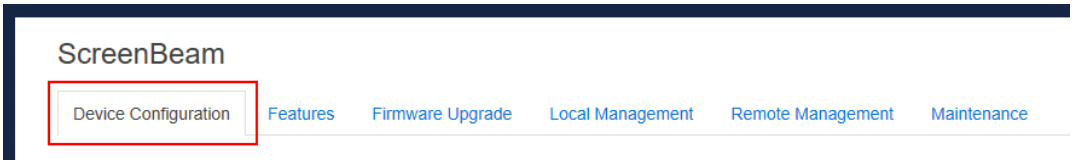




5.3.3. Setting up the Receiver's Display Language

Follow the procedure below to set up the receiver's display language:

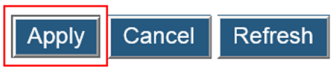
1. Go to the **Device Configuration** tab page by clicking the **Device Configuration** tab.

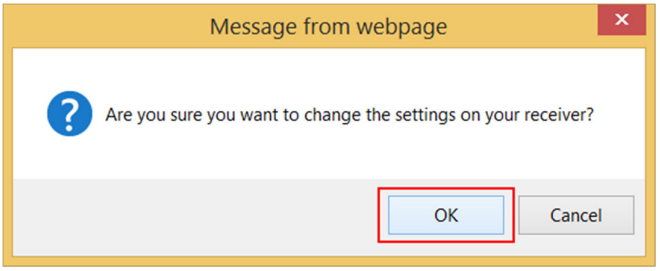


2. Go to the **Display Language** line, and choose a desired language from the **Display Language** drop-down box.
   Currently available languages are Simplified Chinese, Traditional Chinese, Dutch, English, French, German, Italian, Japanese, Korean, Russian, and Spanish.

Note: This will change the language displayed on the TV screen, not the one on the configuration webpage.

3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.

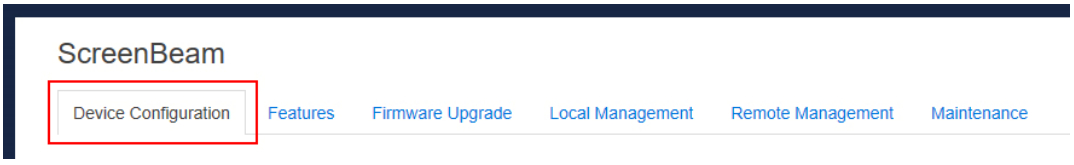




5.3.4. Modifying the Receiver's Host Name

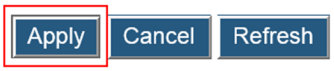
Follow the procedure below to modify your receiver's host name:

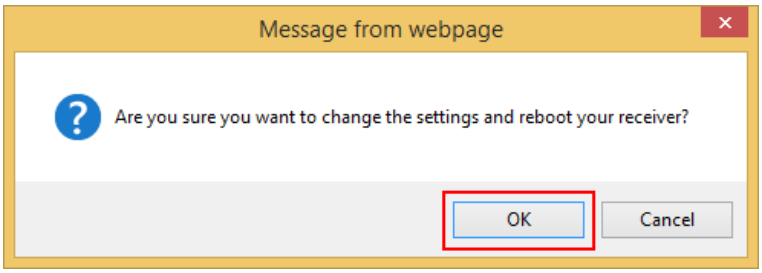
1. Go to the **Device Configuration** tab page by clicking the **Device Configuration** tab.



2. Go to the **Host name** line, and type a new host name in the **Host name** box.

3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



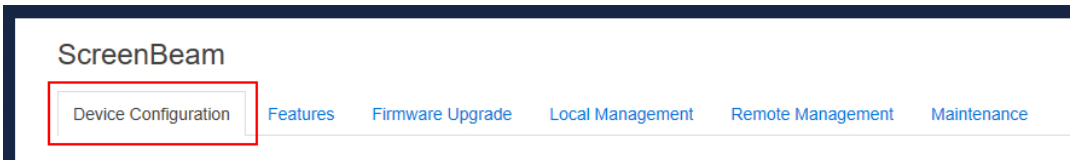


Note: The receiver's new host name takes effect after the reboot.

5.3.5. Setting up Time Zone

Follow the procedure below to select your time zone:

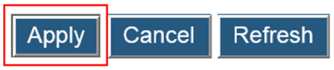
1. Go to the **Device Configuration** tab page by clicking the **Device Configuration** tab.

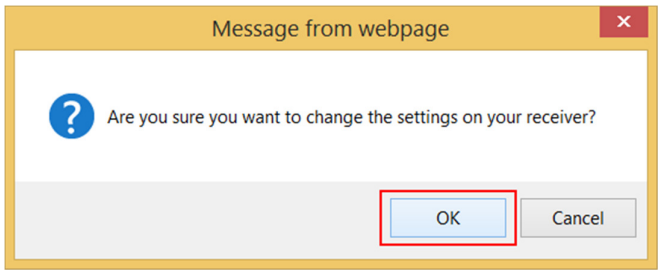


2. Go to the **Time zone** lines, and select your time zone in the drop-down box.

Note: The receiver will synchronize its time with the CMS server it connects to, or with an NTP server.

3. Check the **Enable Daylight Saving time** box if you want to enable daylight saving time.
4. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.

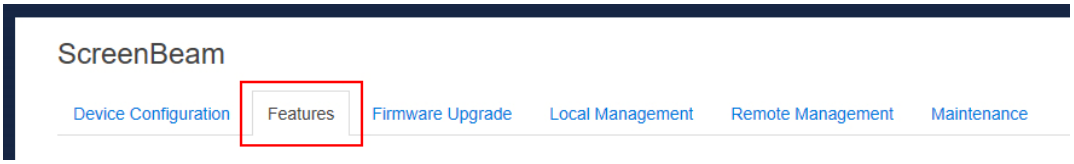




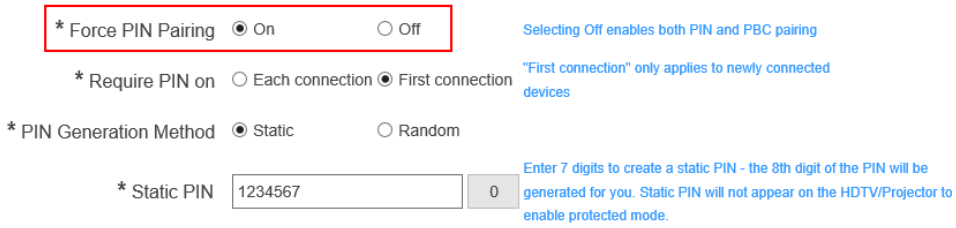
5.3.6. Setting up PIN Pairing Method

Follow the procedure below to set up PIN pairing method:

1. Go to the **Features** tab page by clicking the **Features** tab.



2. Go to the Force PIN Pairing section, and set the **Force PIN Pairing** feature to **On** or **Off**.
   - Select "**Off**" to disable the PIN enforcement function. PIN or PBC pairing is used when connecting your device to the receiver for the first time.
   - Select "**On**" to enable the PIN enforcement function. In this case, you must enter a PIN code on the device connecting to the receiver every time or the first time.
     Note: Some wireless display source device may not support PIN entry and may not be able to connect with the ScreenBeam receiver if this mode is enabled. Refer to the device's user manual for detail about enabling the PIN connection.

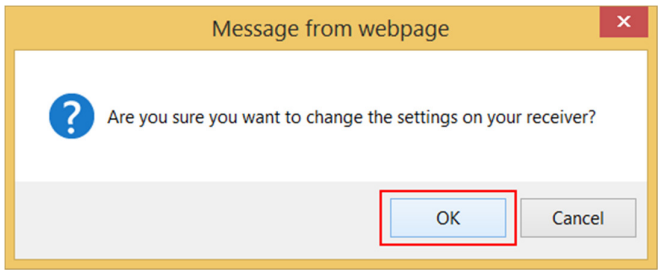


3. Select a PIN pairing method.
   - **Each connection**: You are required to provide the PIN every time you connect your device to the receiver.
   - **First connection**: You are required to provide the PIN the first time you connect your device to the receiver.

4. Select a PIN generation method.
   When the **Force PIN Pairing** feature is enabled, the system provides two PIN generation methods: **Static** and **Random**.
   - **Static**: Users can define seven (7) digits, and then the system generates an eight (8) digit PIN with that seven digits included. By default, the PIN is **12345670**.
     Enter seven (7) digits in the **Static PIN** box, and the system generates the eighth (8th) digit. This PIN will not be displayed on the connected display.

- **Random**: A PIN code is generated randomly by the system and displayed on the connected HDTV/projector.

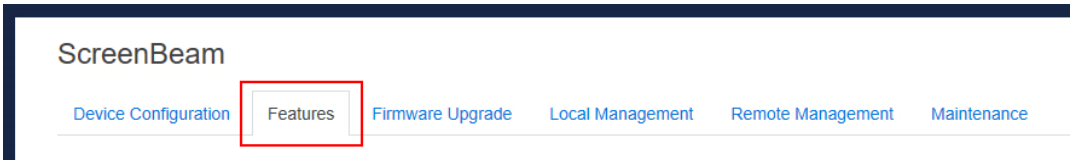
5. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



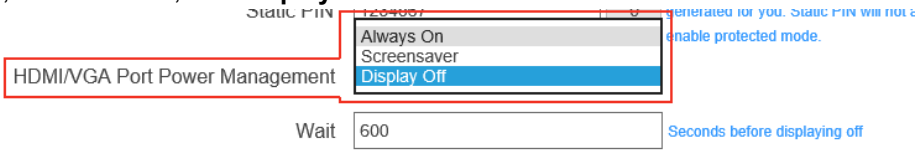
5.3.7. Managing HDMI/VGA Port Output

Follow the procedure below to set up HDMI/VGA port output:

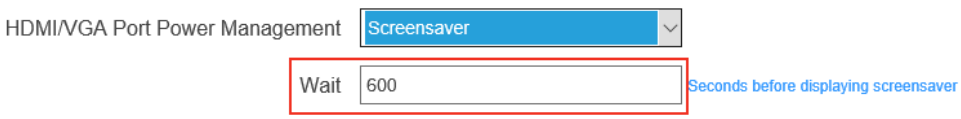
1. Go to the **Features** tab page by clicking the **Features** tab.



2. Go to the **HDMI/VGA Port Power management** line, and select a desired option in the **HDMI/VGA Port Power management** drop-down box. There are three options: **Always On**, **Screensaver**, and **Display Off**.

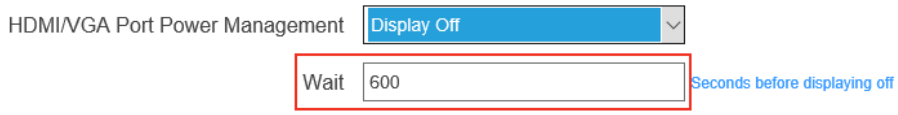


- **Always On**: Selecting this option, the HDMI output is always on.
- **Screensaver**: Selecting this option, the system will run the screensaver after the defined idle time expires. Users can define the idle time (5-9999 seconds) in the **Wait** time box.

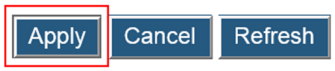


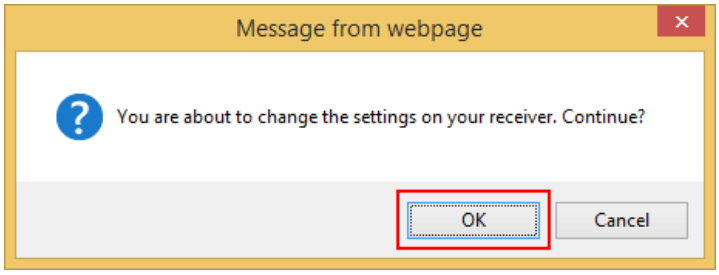
- **HDMI Off**: Selecting this option, the HDMI/VGA output will be turned off after the defined

idle time expires. Users can define the idle time (5-9999 seconds) in the wait time box.



3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



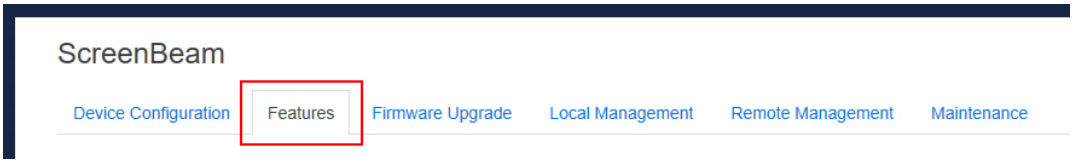


5.3.8. Waking up the Receiver

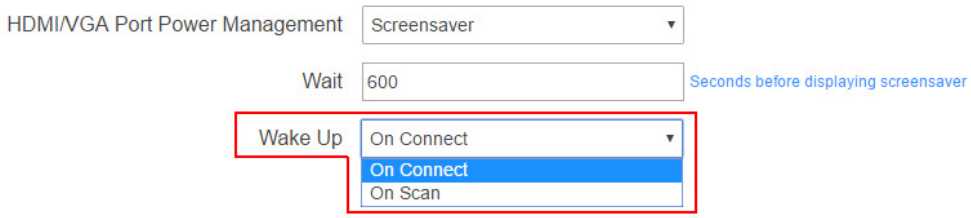
When the receiver runs screensaver or turns off its HDMI output, it can be waked up by any one of two events: scanning and connecting.

Follow the procedure below to set up the receiver's wakeup feature:

1. Go to the **Features** tab page by clicking the **Features** tab.

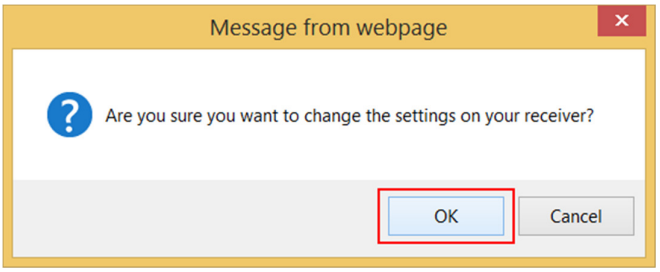


2. Go to the **Wake Up** line, and set the **Wake Up** feature to **On Scan** or **On Connect**.
   - **On Scan**: The receiver will wake up from sleep or screensaver when it detects that a source device is scanning.
   - **On Connect**: The receiver will wake up from sleep or screensaver only when a source device is connecting.



   Note: The **Wake Up** item is available for setup when **HDMI/VGA Port Power management** is set to **Screensaver** or **Display Off**.

3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



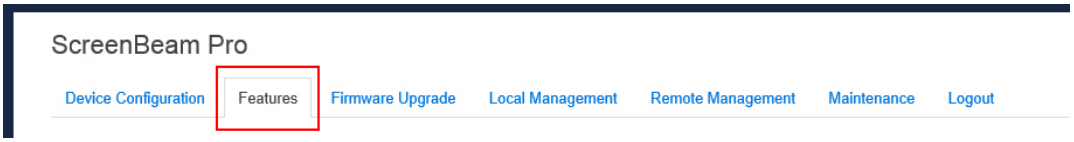
5.3.9. Resetting Wi-Fi Driver on Disconnection

The **WiFi Reset on Disconnect** feature is used to reset the wireless driver for Miracast when the receiver is disconnected.

In some circumstances, the receiver's wireless driver may not function properly and the receiver is undiscoverable. This feature helps you reset the wireless driver so that the receiver works normally.

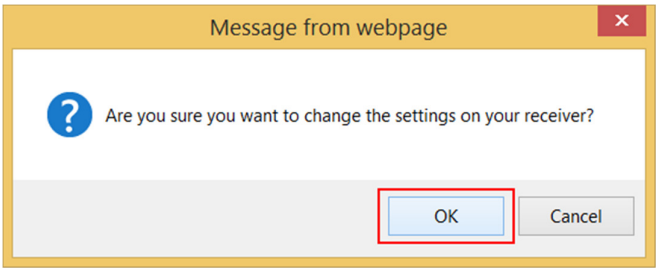
Follow the procedure below to set up the receiver's **WiFi Reset on Disconnect** feature:

1. Go to the **Features** tab page by clicking the **Features** tab.



2. Go to the **WiFi Reset on Disconnect** line, and set this feature to **Enable** or **Disable**.
   - **Enable**: The receiver's wireless driver will be reset every time the receiver is disconnected.
   - **Disable**: The receiver's wireless driver will NOT be reset when the receiver is disconnected. By default, the feature is disabled.

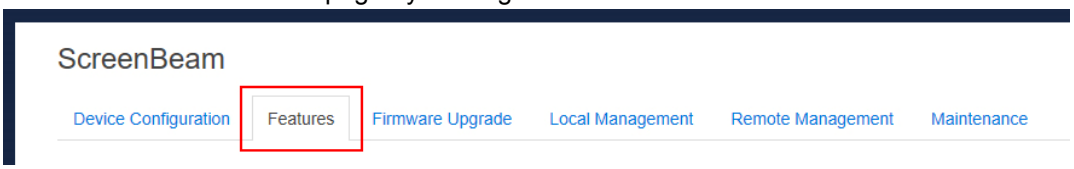
3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



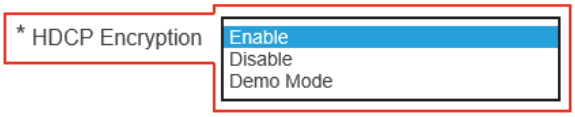
5.3.10. Setting up HDCP Encryption

Follow the procedure below to set up HDCP encryption:

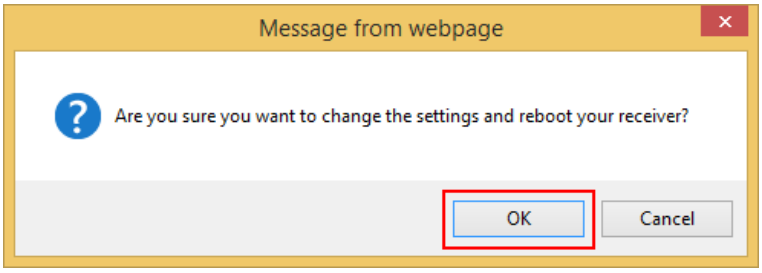
1. Go to the **Features** tab page by clicking the **Features** tab.



2. Go to the **HDCP Encryption** line, and select an option from the **HDCP Encryption** box. There are three options available: **Enable**, **Disable**, and **Demo Mode**.
   - **Enable**: This option is default. HDCP encryption is enabled to protect HDCP protected media.
   - **Disable**: Disabling the **HDCP Encryption** function will improve connection speed and compatibility. However, you cannot play HDCP protected media.
   - **Demo Mode**: Reserved.



3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.

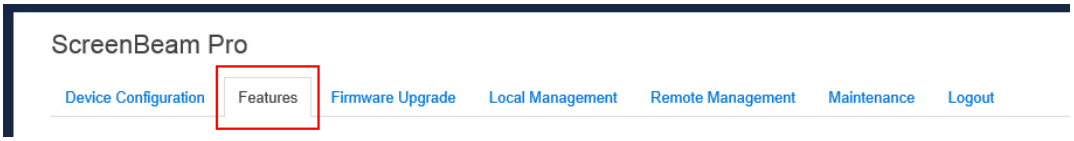


Note: The receiver's new HDCP encryption mode takes effect after the reboot.

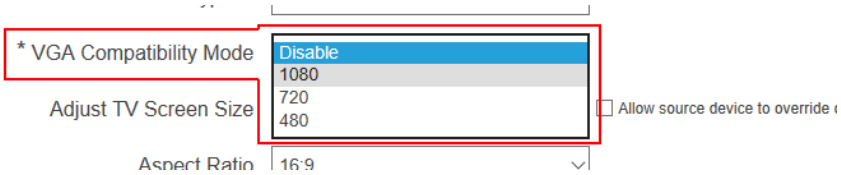
5.3.11. Setting up the VGA Compatibility Mode

Follow the procedure below to select a VGA compatibility mode:

1. Go to the **Features** tab page by clicking the **Features** tab.

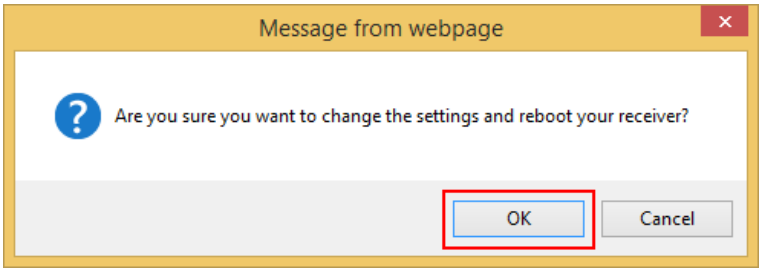


2. Go to the **VGA Compatibility Mode** line, and select the desired option in the **VGA Compatibility Mode** box. There are three options: **Disable**, **1080**, **720**, and **480**.
   - **Disable**: The video output is in consistence with the source device.
   - **1080**: The video output is set to 1080p or 1080i, depending on the display device.
   - **720**: The video output is set to 720p or 720i, depending on the display device.
   - **480**: The video output is set to 480p or 480i, depending on the display device.



Note: The VGA compatibility mode is disabled when HDMI-CEC is enabled.

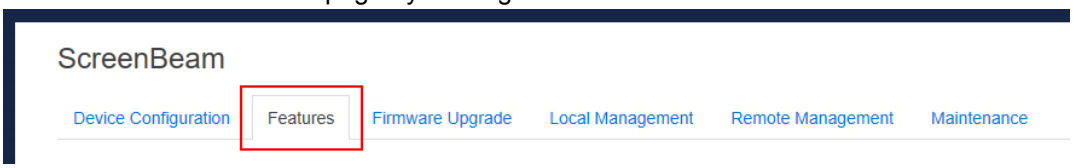
3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



5.3.12. Adjusting TV Screen Size

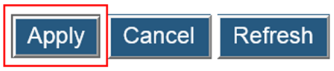
Follow the procedure below to adjust the size of your TV screen:

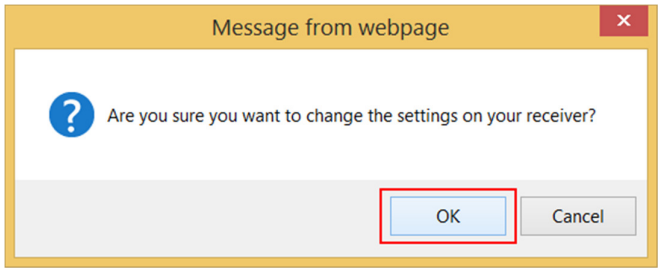
1. Go to the **Features** tab page by clicking the **Features** tab.



2. Go to the **Adjust TV Screen Size** line, and select a desired option in the **Adjust TV Screen Size** drop-down box.
   - The value for TV screen size ranges from 0 to 25. The larger the value is, the bigger the screen will be.
   - **Allow source device to override overscan value**: When this option is enabled (checked), the overscan value is in consistence with the setting on the source device. Otherwise, the overscan value is in consistence with the setting on the receiver.

3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



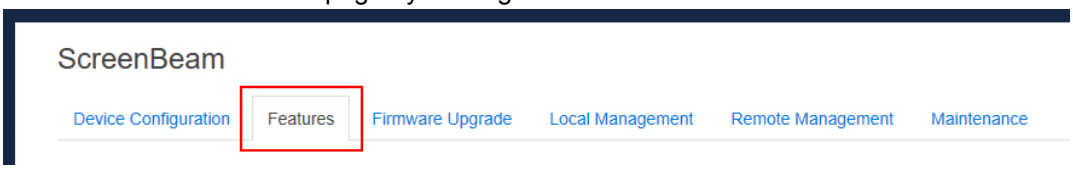


5.3.13. Setting up Output Aspect Ratio

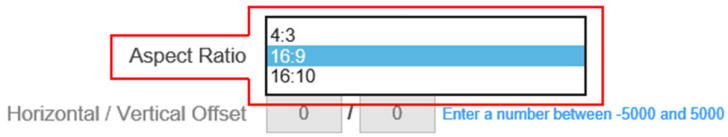
If the output does not fit your display screen due to wrong aspect ratio, you can try selecting a proper aspect ratio for your display screen.

Follow the procedure below to adjust the aspect ratio for your TV screen:

1. Go to the **Features** tab page by clicking the **Features** tab.

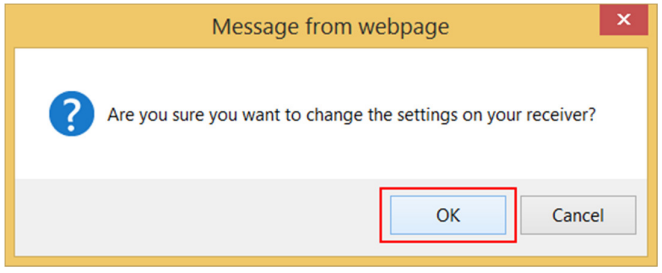


2. Go to the **Aspect Ratio** line, and select a proper option in the **Aspect Ratio** drop-down box.



In case of selecting the **4:3** option, you can also fine tune the horizontal and vertical offsets.

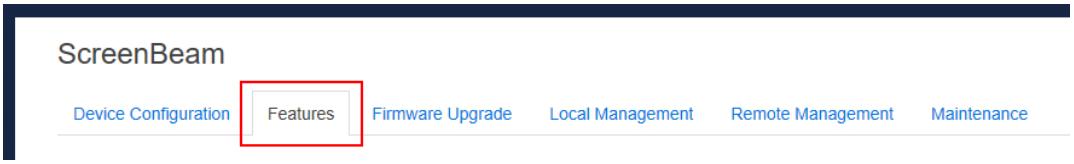
3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



5.3.14. Setting up One Touch Play (HDMI-CEC)

Follow the procedure below to set up the One Touch Play (HDMI-CEC) function:

1. Go to the **Features** tab page by clicking the **Features** tab.



2. Go to the **One Touch Play (HDMI-CEC)** line, and set the **One Touch Play (HDMI-CEC)** feature to **On** or **Off**.

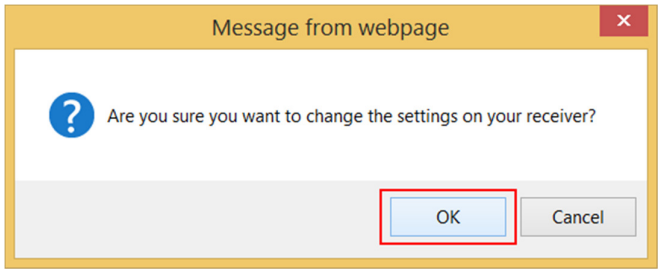
There are two options: **On**, and **Off**. After this function is enabled, the receiver can wake up the connected display device and the display device will switch to the source that the receiver connects to.

The display device will be waked up in one of the following conditions:

a. when the receiver is powered on;
b. when a connection to the receiver is established; and
c. when a power-on receiver is connected to the display device.

Note: The display device must support HDMI-CEC, and this function is enabled.

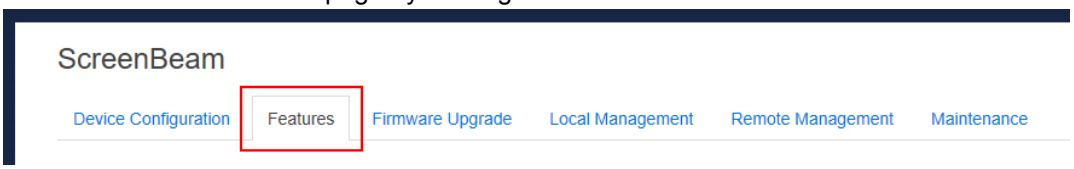
3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



5.3.15. Updating the Receiver's Background Image

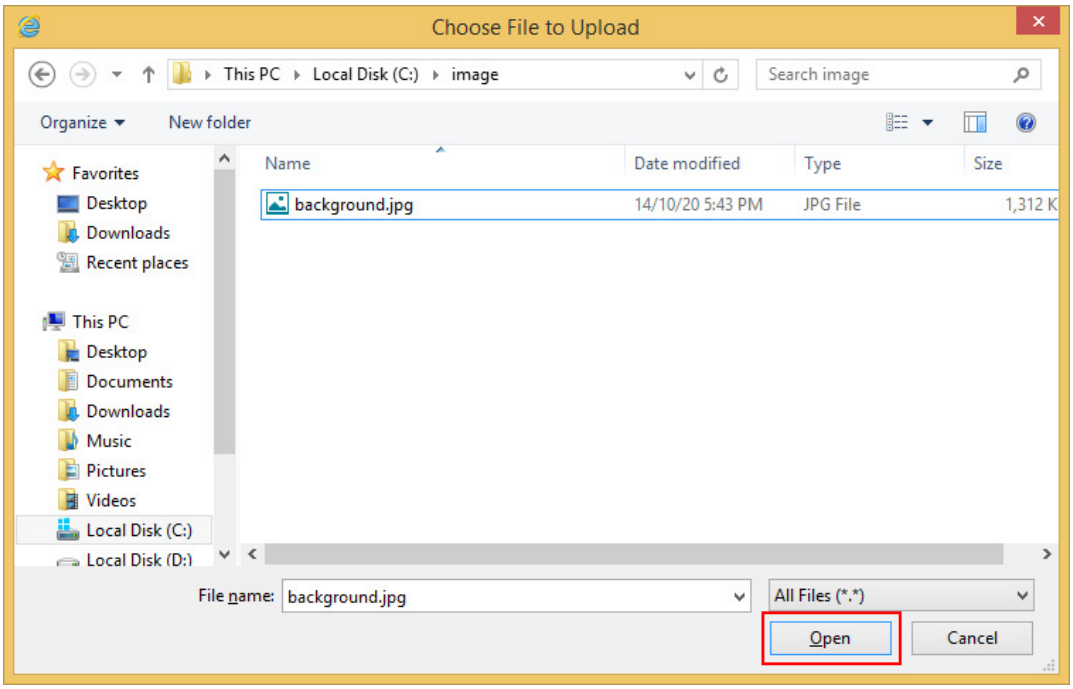
Follow the procedure below to update the receiver's background:

1. Go to the **Features** tab page by clicking the **Features** tab.



2. Go to the **Background Image** line, and click the **Browse** button next to the **Background Image** box.

3. The **Choose File to Upload** window appears. Select an image for the background and click the **Open** button to confirm.

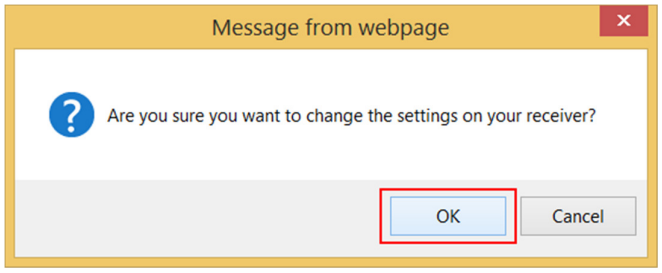


Note:

- The images must be in .png and .jpeg/.jpg formats.
- The file size must not exceed 2.5 MB.
- The best image size is 1280*720 pixels (width x height).

4. Click the **Apply** button to upload the background image to the receiver.

5. A confirmation message appears. Click **OK** to continue.

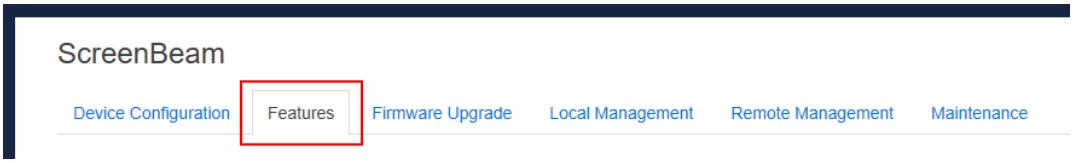


6. After a while, the background image will be updated. You can check it on the connected display.

5.3.16. Updating the Receiver's Screensaver Image

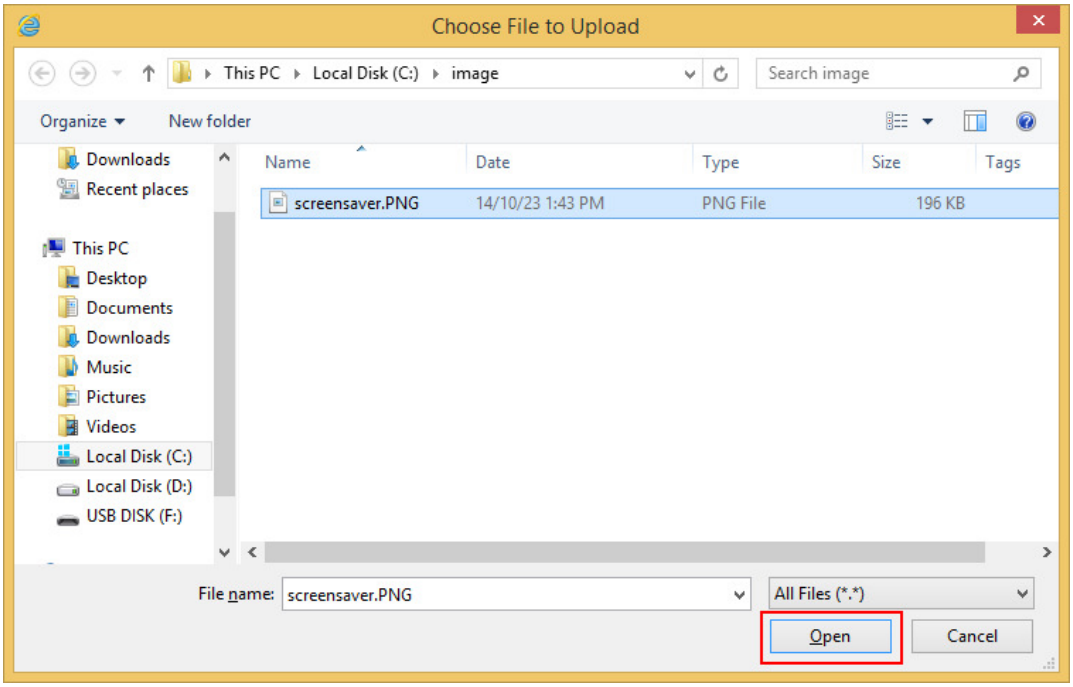
Follow the procedure below to update the receiver's screensaver:

1. Go to the **Features** tab page by clicking the **Features** tab.



2. Go to the **Screen Saver Image** line, and click the **Browse** button next to the **Screen Saver Image** box.

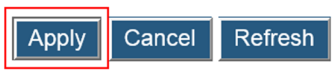
3. The **Choose File to Upload** window appears. Select an image for the screensaver and click the **Open** button to confirm.



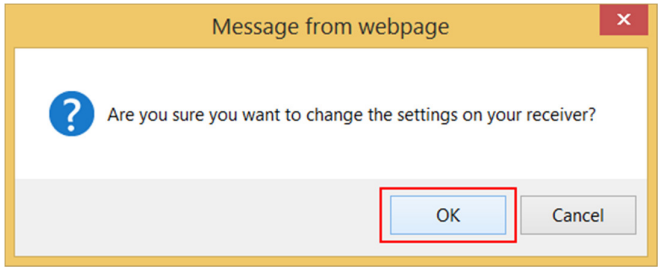
Note:

- The image must be in .png format.
- The file size must not exceed 200 KB.
- The best image size is 300*60 pixels.

4. Click the **Apply** button to upload the screensaver image to the receiver.



5. A confirmation message appears. Click **OK** to continue.

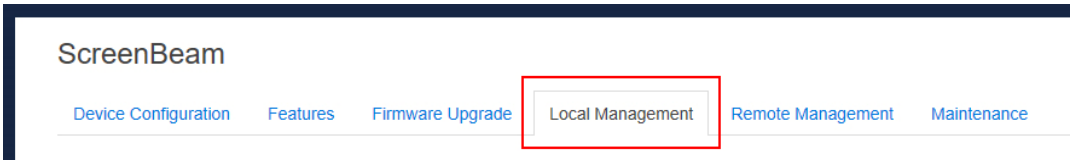


6. After a while, the screensaver image will be updated. You can check it on the connected display when the screensaver is running.

5.3.17. Setting up Network Information Display on TV Screen

Follow the procedure below to set up the receiver's network information display:

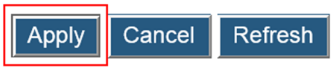
1. Go to the **Local Management** tab page by clicking the **Local Management** tab.

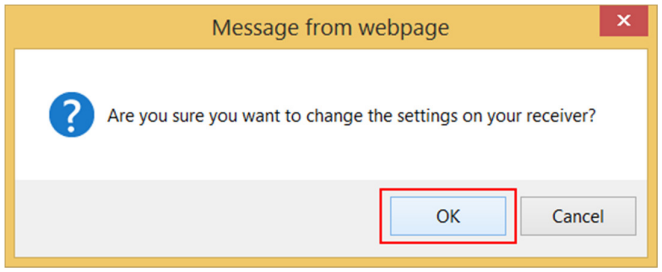


2. To enable/disable the **Show network information on TV screen** feature, go to the **Show network information on TV screen** line, and set the feature to **Enable** or **Disable**. By default, this feature is disabled, that means network information is not displayed.

Note: By default, the receiver's network information is not displayed.

3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



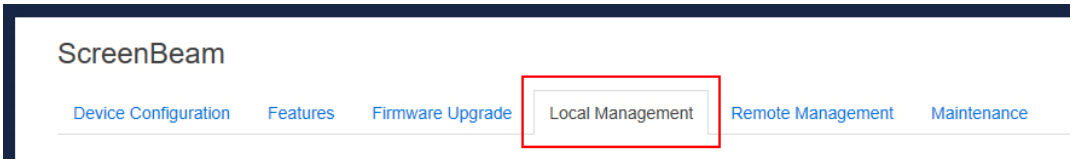


5.3.18. Modifying the Receiver's Wireless Network Name (SSID)

Users are allowed to set up the receiver's wireless network name (SSID).

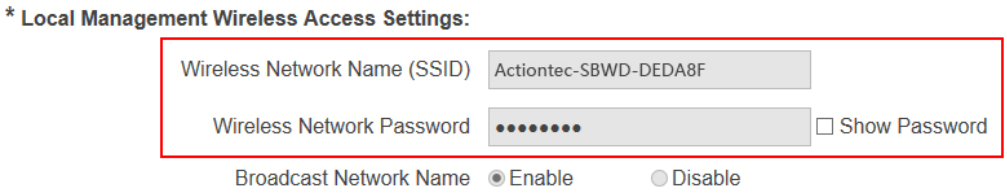
Follow the procedure below to modify the receiver's SSID:

1. Go to the **Local Management** tab page by clicking the **Local Management** tab.

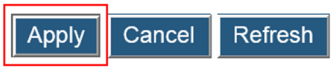


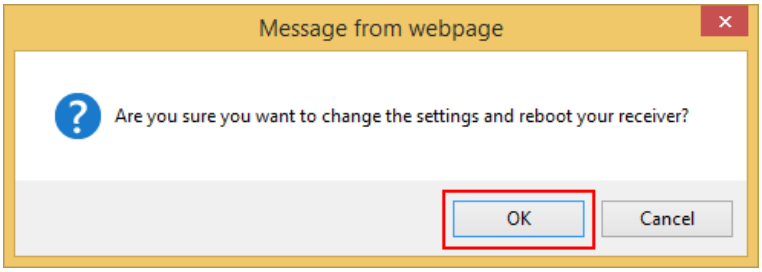
2. Go to the **Local Management Wireless Access Settings** section, and type a new name in the **Wireless Network Name (SSID)** box and a new password in the **Wireless Network Password** box.

   Note: The password will display in plain text when **Show Password** is enabled.



3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



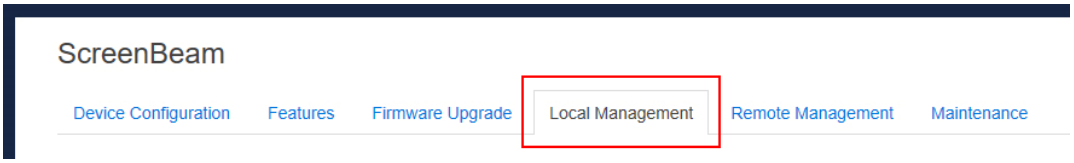


4. The receiver reboots, and the new SSID takes effect after the reboot.

5.3.19. Setting up Broadcast Network Name

Follow the procedure below to set up Broadcast Network Name:

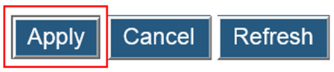
1. Go to the **Local Management** tab page by clicking the **Local Management** tab.

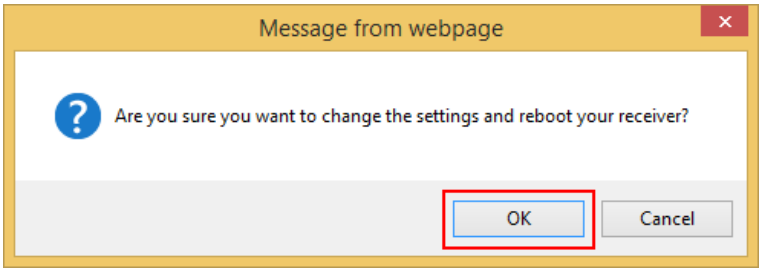


2. To enable/disable the **Broadcast Network Name** feature, go to the **Local Management Wireless Access Settings** section, and set the **Broadcast Network Name** feature to **Enable/Disable**.

Note: By default, the receiver's network name (SSID) is not broadcasted. In this situation you can connect to the SSID manually. Refer to Section 5.1.1. **When SSID Broadcast is Disabled** for detail.

3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.





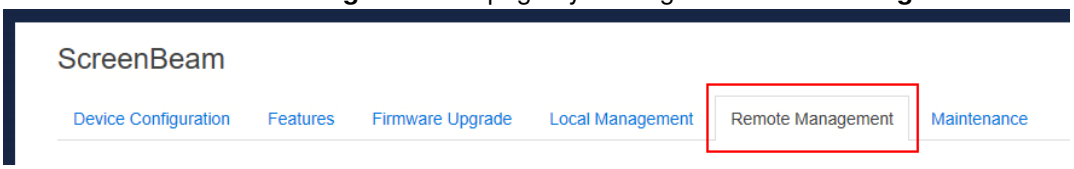
4. The receiver reboots, and new setting takes effect after the reboot.

5.3.20. Setting up Wireless Connection Properties

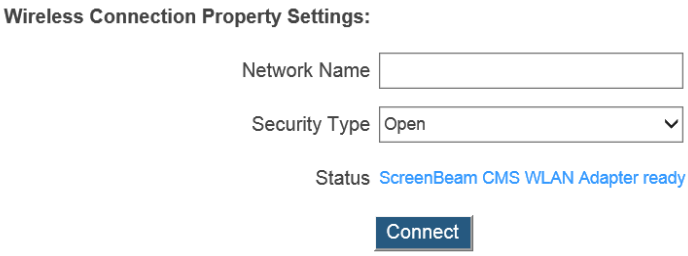
The receiver can wirelessly connect to your network through the ScreenBeam CMS WLAN Adapter. We need to set up the wireless connection parameters before starting the connection.

Follow the procedure below to set up the receiver's wireless connection properties:

1. Go to the **Remote Management** tab page by clicking the **Remote Management** tab.



2. Go to the **Wireless Connection Property Settings** section, and configure the parameters according to specific requirements.



- **Network Name**: The SSID of the wireless router (AP).
- **Security Type**: Select a security type, the one you have selected on your wireless router. Available security types are **Open**, **Shared**, **WPA-PSK[TKIP]**, **WPA2-PSK[AES]**, **WPA-PSK[TKIP]+WPA2-PSK[AES]**, **PEAP/MSCHAPV2**, and **EAP-TLS**.
- **Status**: It displays the connection states.

When **Shared**, **WPA-PSK[TKIP]**, **WPA2-PSK[AES]**, or **WPA-PSK[TKIP]+WPA2-PSK[AES]** is selected,

- **User Name**: Not used.
- **Password**: The pre-shared password for the wireless SSID.

When **PEAP/MSCHAPV2** is selected,

- **User Name**: This is for authentication through a RADIUS server. It is RADIUS account User Name.

- **Password**: It is RADIUS account password.

When **EAP-TLS** is selected, the following items are available:

- **User Name**: It is the User Principal Name or RADIUS Identity (if necessary).
  Note: The User Name supports these characters: a-z, A-Z, 0-9, @, ., and _.
- **Password**: It is the password of the Private Key.
- **System Date & Time**: It is used to set date and time for the receiver. You should set the date and time according to the validity period of the certificates.
- **CA Certificate**: It is the root certificate. Click the Browse button to browse and add the certificate.
- **User Certificate**: It is the user certificate. Click the Browse button to browse and add the certificate.
- **Private Key**: It is the user's private key. Click the Browse button to browse and add the certificate.
- **Validity Period**: It displays the effective period of the certificates.

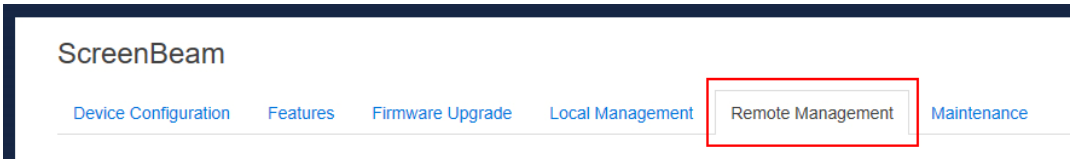
  Note:
  - Currently, only certificates in the ".pem" format are supported, and the certificates must be generated using the "DER encoded binary X.509" method.
  - The length of the certificate file name must not exceed 64 bytes, and the file size must be less than 100 KB.
  - All the three certificates are required for authentication.
  - You must select the right certificate file for each type of certificate.

3. Click the **Connect** button, and then the adapter will connect to the wireless router (AP).
   Note:
   - Connect the CMS WLAN Adapter to your network when the receiver is in Ready to Connect state.
   - The CMS WLAN Adapter may take some time to connect to your network, depending on your network environment.

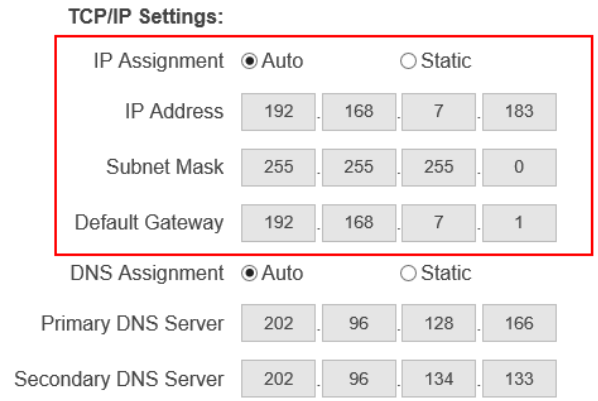
5.3.21. Setting up the Receiver's IP Address

Follow the procedure below to set up the receiver's IP address:

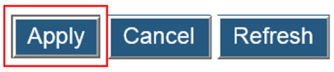
1. Go to the **Remote Management** tab page by clicking the **Remote Management** tab.

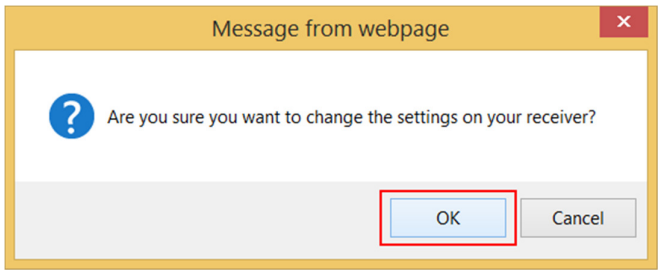


2. Go to the **TCP/IP Setting** section, and set the **IP Assignment** to **Auto** or **Static**.
   - **Auto**: The receiver will be assigned an IP address by the DHCP server.
   - **Static**: You can define the IP address, subnet mask, and default gateway for the receiver. If you select **Static**, you can define a DNS server.



3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.

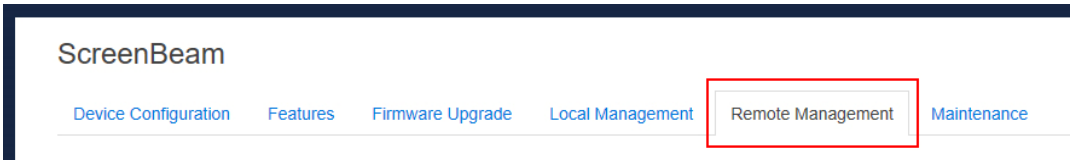




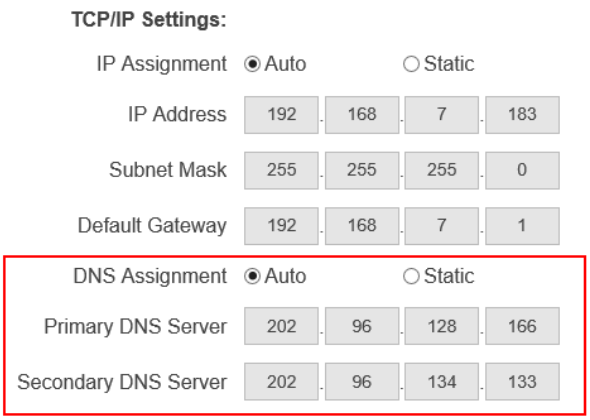
5.3.22. Specifying a DNS Server for the Receiver

Follow the procedure below to specify a DNS server for the receiver:

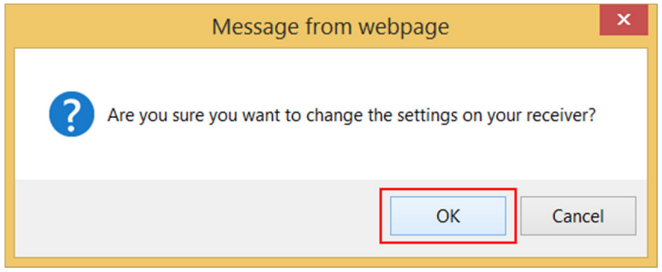
1. Go to the **Remote Management** tab page by clicking the **Remote Management** tab.



2. Go to the **TCP/IP Setting** section, and set the **DNS Assignment** to **Auto** or **Static**.
   - **Auto**: The receiver will be assigned a DNS server automatically.
   - **Static**: You can define a DNS server for the receiver. When you select **Static**, you must define a DNS server.



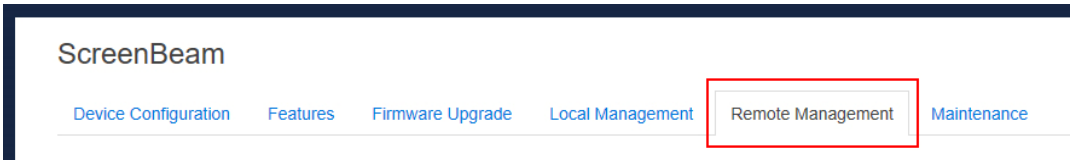
3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



5.3.23. Specifying ScreenBeam CMS for the Receiver

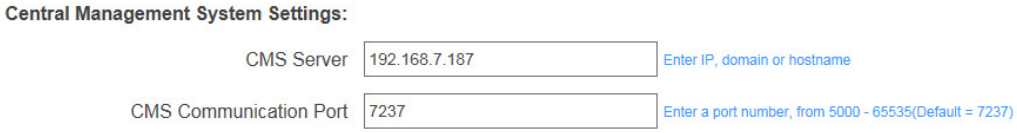
Follow the procedure below to specify a CMS for the receiver:

1. Go to the **Remote Management** tab page by clicking the **Remote Management** tab.

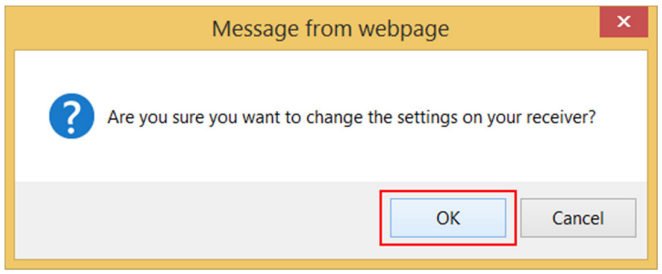


2. Go to the **Central Management System Setting** section, and define the **CMS Server** and the **CMS Communication Port**.
   - **CMS Server**: It is the IP address or the FQDN/hostname/domain name/alias name (if you have properly configured the DNS server and the DHCP server) of the server that hosts the ScreenBeam CMS. It supports a domain with six labels at most.

   Note: We recommend using the DNS setting.
   - **CMS Communication Port**: It is the communication port of the ScreenBeam CMS.



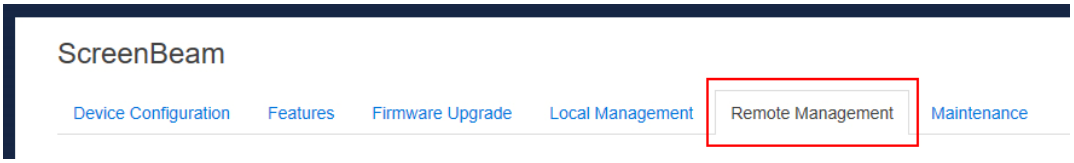
3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



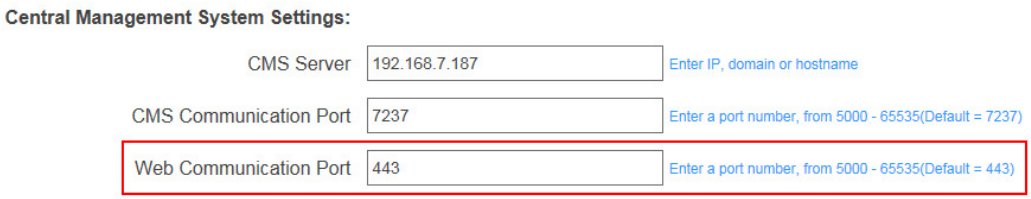
5.3.24. Specifying a Local Management Communication Port for the Receiver

Follow the procedure below to specify a local management communication port for the receiver:

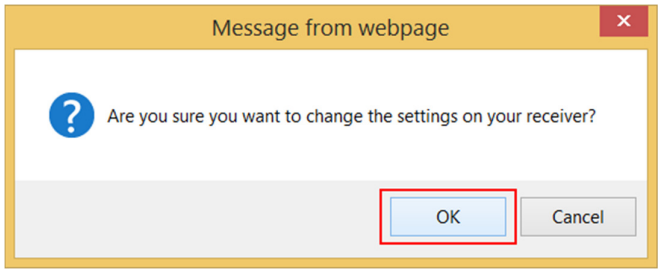
1. Go to the **Remote Management** tab page by clicking the **Remote Management** tab.



2. Go to the **Central Management System Setting** section, and define a port for **Web Communication Port**.
   - **Web Communication Port**: It is the communication port for the receiver's local management console.



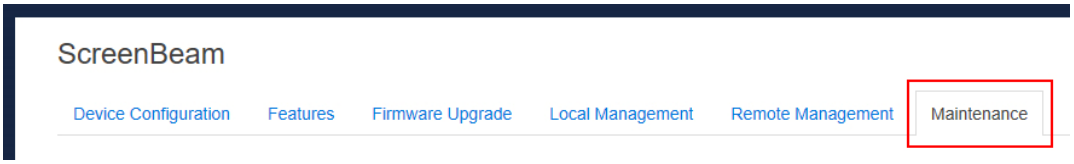
3. Click the **Apply** button, and then click **OK** on the pop-up message box to confirm.



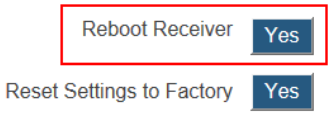
5.3.25. Rebooting the Receiver

Follow the procedure below to reboot the receiver:

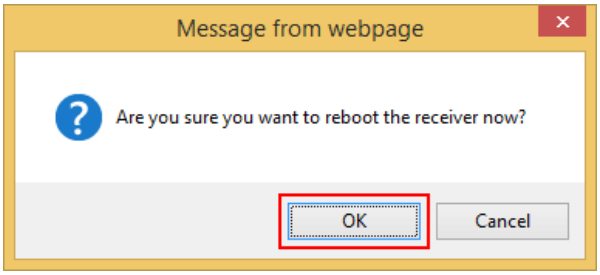
1. Go to the **Maintenance** tab page by clicking the **Maintenance** tab.



2. Click the **Yes** button next to "**Reboot Receiver**".



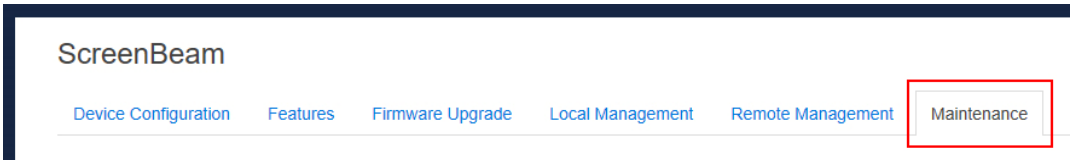
3. Click **OK** on the pop-up message box to confirm.



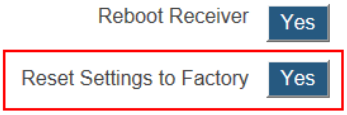
5.3.26. Resetting the Receiver to Default

Follow the procedure below to reset the receiver:

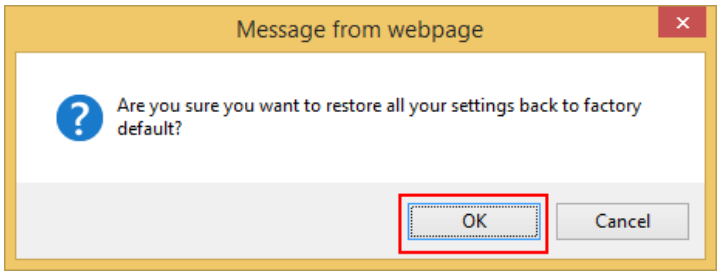
1. Go to the **Maintenance** tab page by clicking the **Maintenance** tab.



2. Click the **Yes** button next to "**Reset Settings to Factory**".



3. Click **OK** on the pop-up message box to confirm.



4. The receiver reboots, and the receiver is reset to factory defaults after the reboot.
   Note: All settings will be reset to defaults.

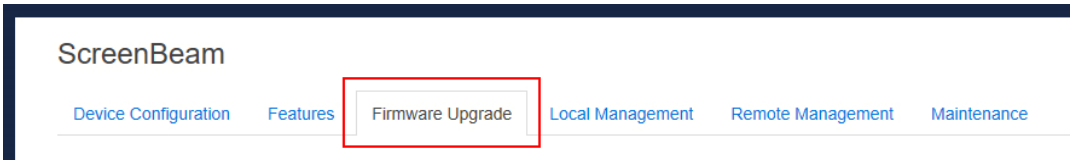
5.4. Updating Firmware for the Receiver

Users can wirelessly upgrade firmware for the receiver through the local web management console. Follow the procedure below to upgrade your receiver:

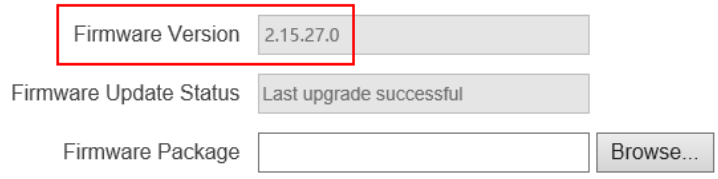
1. Download the latest firmware from Actiontec's website:
   http://www.actiontec.com/sbupdate

Note: You should disconnect from the receiver's SSID and connect to a router's SSID before downloading firmware.

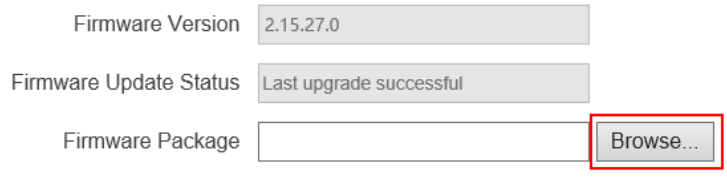
2. Log into ScreenBeam 750's Local Management Console, and go to the **Firmware Upgrade** tab page by clicking the **Firmware Upgrade** tab.



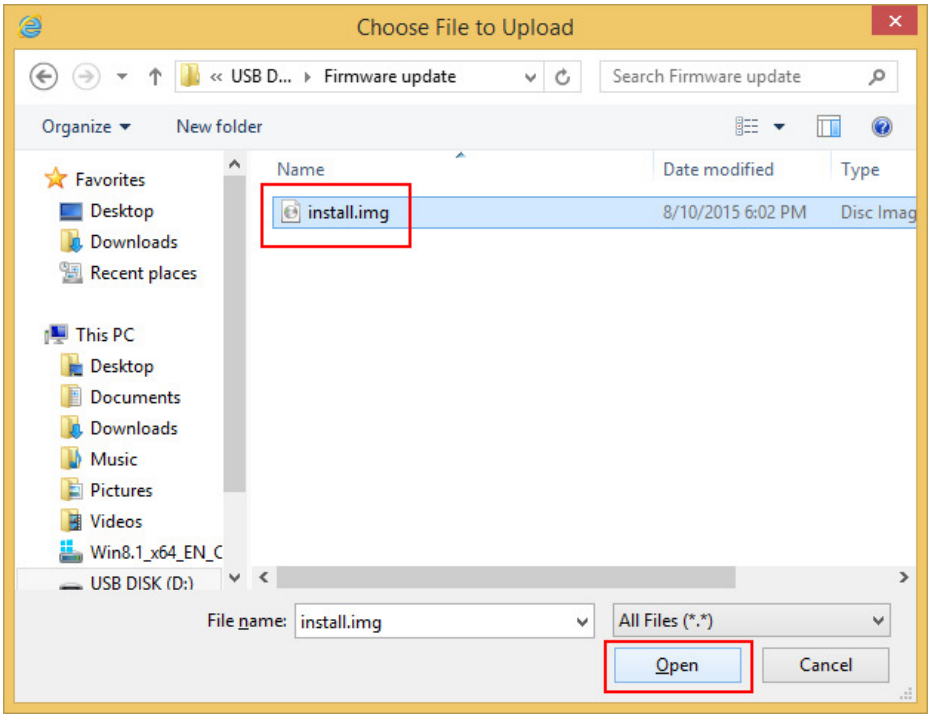
   On the **Firmware Upgrade** tab page, you can check the current firmware version in the **Firmware Version** section.
   Note: You can update the receiver's firmware to a higher version only.



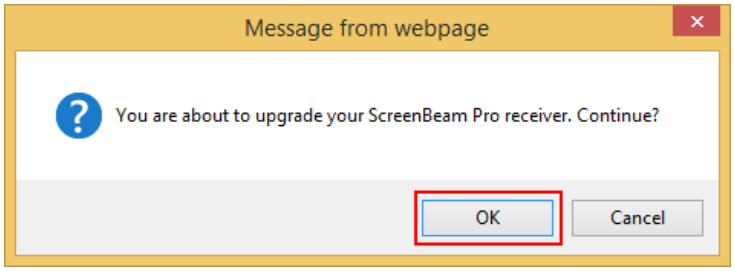
3. Click the **Browse** button to display the **Choose File to Upload** dialog box.



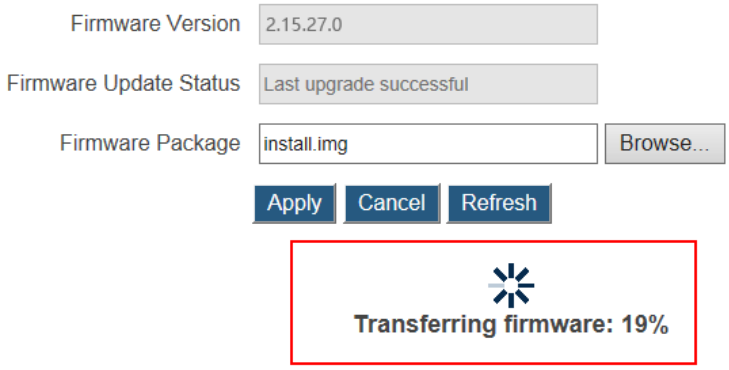
4. Select the firmware file ("**install.img**") and click the "**Open**" button to continue.



5. Click the **Apply** button, and then click **OK** on the pop-up message box to continue.



6. The web server starts transferring the firmware file to the receiver.



7. The receiver reboots and upgrades itself after the file is uploaded successfully. Firmware upgrade status is displayed on the connected display.

8. When the receiver returns to the **Ready to connect** Screen, your receiver has been upgraded.

Warning! Do NOT power off your receiver during the upgrade process. The upgrade will take some time. Please be patient.

Appendix I. Troubleshooting and FAQs

This chapter describes some problems you may encounter using ScreenBeam 750, and possible solutions to those problems. Also included are frequently asked questions (FAQs), and answers to those questions.

Troubleshooting

I tried to access the URL (https://192.168.51.1), but failed. Why?
Connect to the receiver's SSID, and then access the URL again.

I'm not seeing anything on my HDTV screen after powering on the Receiver.
Check the cable connections and make sure the TV Input setting is the same as the HDMI port to which the Receiver is connected.

After upgrading from Windows 8 to Windows 8.1, I can no longer connect to ScreenBeam 750 receiver or I'm having problems with my connection.
Make sure you've installed the latest updates with the **Windows Update** application.

I'm seeing artifacts and experiencing a choppy, juddering video stream.
In noisy Wi-Fi environments, audio and video freezes may be observed while playing video content, and longer than expected latency may occur when streaming. To ensure you have an optimal Wi-Fi environment:

- Disconnect and reconnect the Receiver.
- If the source device is connected to a wireless router, restart the router, or change the wireless channel on your wireless router/AP. Refer to the wireless router's user manual for more information.

I'm seeing choppiness and brief pauses while watching Internet video on my Miracast™ device.
Wireless interference may cause Internet video playback to be choppy. If this occurs, try the following:

- Disconnect the device from the Receiver. Make sure the Internet connection is good and that the video playing on the phone is smooth.
- Clear the YouTube cache and try playing the video again.

I'm seeing choppiness and brief pauses while watching local video on my Miracast™ device.
Wireless interference may cause the video playback to be choppy. If this occurs, try the following:

- Make sure you are in the same room as the Receiver is.
- Set the media player to use the H/W decoder, if available.
- Reboot the Miracast™ device and Receiver and connect again.
- Avoid moving the Miracast™ device around too much.
- Change the wireless channel on your wireless router/access point, or on your receiver.

My Windows 8.1 displays to the TV but the four edges are cut off (overscan).
This is expected with some system's supported display resolution. You can adjust Windows screen resolution settings to fit the PC's screen on your TV display.

I encounter connection failure with ScreenBeam 750 and my device can't connect to it any more.

- Reboot the ScreenBeam 750 and try connection again. Or, reboot your device (laptop/Ultrabook/tablet/smartphone) and try connection again.
- Reboot both the ScreenBeam 750 and your device and try connection again.
- If you are using a Windows 8.1 operating system, go to **Change PC settings** > **PC and Devices** > **Devices** > **Projectors**, remove the profile of the ScreenBeam 750 from your device (PC/laptop/Ultrabook), and try connection again.
- If you are using a Windows 10 operating system, go to **Settings** > **Devices** > **Connected Devices** > **Projectors**, remove the profile of the ScreenBeam 750 from your device (PC/laptop/Ultrabook), and try connection again.

I can't connect to the Receiver with ScreenBeam Configuration Utility on my device. The Utility can't find the Receiver.
ScreenBeam 750 is not compatible with ScreenBeam Configuration Utility. To configure or upgrade the receiver, you should use the receiver's local management console or ScreenBeam Central Management System.

When I connect the source device to a wireless network (router/AP), why ScreenBeam 750 disconnects automatically?
The source device's communication channel has changed when you connect your device to a wireless network (router/AP) in the situation that the source device is connected to ScreenBeam 750. As a result, ScreenBeam 750 disconnects from the source device.
The solution is that you should connect your device to the wireless network before connecting it to ScreenBeam 750. In this way, ScreenBeam 750 works on the same channel with the source device and the wireless network, and no connection interruption will occur.

FAQs

How do I configure the settings for the Receiver?
All changes to the Receiver settings are done through the local management console. To access:

1. Wirelessly connect a PC/laptop to the ScreenBeam 750's network. By default, this network is named "Actiontec-SBWD-xxxxxx" where "xxxxxx" refers to the last six characters of the device ID, found on both the **Ready to connect** screen and on the label on the bottom of the Receiver. The default network security key is "12345678."
2. Enter the URL address displayed on the **Ready to connect** screen in the Address bar of a web browser on the PC/laptop. The default URL is https://192.168.51.1.
3. Enter the username and password in the appropriate text boxes. "Administrator" and "Actiontec" are the default username and password, respectively.

Can I view protected content if ScreenBeam 750 receiver is connected a display through the HDMI-to-VGA adapter?

No. The HDMI-to-VGA adapter does not support playback of protected content such as blue-ray.

Can my device connect to ScreenBeam 750?

To connect to ScreenBeam 750, your device must be Wi-Fi Miracast-capable.

For a system to support wireless display, it should have most if not all Intel chipsets (Processor, Graphic Card, and Wireless chipset).

- **Processor**. One of the following processors is required:
  - 2nd generation Intel Core i3/i5/i7 Mobile Processor
  - 3rd Generation Intel Core i3/i5/i7 Mobile and Desktop Processor
  - 4th Generation Intel Core i3/i5/i7 Mobile and Desktop Processor
  - Intel Pentium N3510 Processor
  - Intel Celeron N2805 Processor
  - Intel Celeron N2810 Processor
  - Intel Celeron N2910 Processor
  - Intel Atom Z3740 Processor
  - Intel Atom Z3740D Processor
  - Intel Atom Z3770 Processor
  - Intel Atom Z3770D Processor
- **Graphics**. One of the following graphics solutions is required:
  - Intel Iris Pro Graphics 5200
  - Intel Iris Graphics 5100
  - Intel HD Graphics 5000
  - Intel HD Graphics 4600
  - Intel HD Graphics 4400
  - Intel HD Graphics 4200
  - Intel HD Graphics 4000
  - Intel HD Graphics 3000 (mobile)
  - Intel HD Graphics 2500
  - Intel HD Graphics 2000 (mobile)

- **Wireless Adapter**. One of the following wireless adapters is required:
  - Intel Centrino Wireless-N 1000, 1030, 2200, or 2230
  - Intel Centrino Wireless-N 2200 for Desktop
  - Intel Centrino Advanced-N 6200, 6205, 6230, or 6235
  - Intel Centrino Advanced-N 6205 for Desktop
  - Intel Centrino Wireless-N + WiMAX 6150
  - Intel Centrino Advanced-N + WiMAX 6250
  - Intel Centrino Ultimate-N 6300
  - Intel Dual Band Wireless-N 7260
  - Intel Dual Band Wireless-AC 7260
  - Intel Dual Band Wireless-AC 7260 for Desktop
  - Intel Dual Band Wireless-AC 3160
  - Intel Wireless-N 7260
  - Broadcom BCM43228
  - Broadcom BCM43241
  - Broadcom BCM4352
- **Operating System**. One of the following operating systems is required:
  - Microsoft Windows 7/8 (with ScreenBeam USB Transmitter and ScreenBeam wireless display software)
  - Microsoft Windows 8.1
  - Microsoft Windows 10
- System requirements for Wi-Fi Miracast™
  - Android 4.2
  - Windows 8.1/10
- ScreenBeam 750 is not compatible with Apple devices.

How can I tell if my device supports Wi-Fi Miracast?

Look for one of the following Miracast applications on your device. Only some application names are listed below. Different manufacturers may have different names for the Miracast apps on their products. But, they should indicate similar meaning.

- Wireless display
- Wireless mirroring
- Screen mirroring
- AllShareCast (Samsung devices only)
- Cast screen

Visit ScreenBeam 750 compatibility page for the recommended Miracast devices.

Do I need to install drivers/apps to use the ScreenBeam 750 Receiver?

- For **Windows 7/8**, you need to install ScreenBeam USB Transmitter and ScreenBeam wireless display software.
- For **Windows 8.1/10**, you only need to install the latest Windows updates.
- For **Android 4.2** or higher, no app is required.
  Note: Your device must be Wi-Fi Miracast™-capable.

How can I improve my video/audio performance?

You can try the following methods to improve the ScreenBeam 750's video/audio performance:

- Place your device closer to the Receiver.
- Connect your device to a wireless network that is using a cleaner wireless channel or change the wireless channel on the current wireless network, and then connect the device to the Receiver.
- Turn off the Wi-Fi devices that are not in use currently.

What wireless signal range can I expect with the Receiver?

The Receiver is designed to be used in the same room with the source device. For best performance, the source device should be placed within 20 meters to the Receiver.

Do I need an existing wireless network to use the Receiver?

No. The Receiver connects directly with the Miracast™-enabled device, and no wireless network is needed. However, the source device needs to be connected to an Internet router or data network to view online content.

How can I upgrade the Receiver's firmware?

You can upgrade the receiver's firmware by using the local management console or ScreenBeam Central Management System.

How do I configure the receiver's general settings, such as changing language, rename the receiver, enable/disable screensaver, and idling time for screensaver?

You can configure the receiver's general settings by using the local management console or ScreenBeam Central Management System.

How can I adjust the display to fit properly to my TV screen?

You can adjust the display by using the receiver's local management console or ScreenBeam Central Management System.

- Log into the receiver's web server, and adjust the display in the **Adjust TV Screen Size** section of the **Features** page.
- In the ScreenBeam Central Management System, double click the receiver to open the receiver configuration page, and then adjust the TV screen size in the **Features** section.

Can I extend my Windows desktop to the HDTV or Projector from my Miracast device?

Yes. After the connection to ScreenBeam 750 receiver is established, by default you should see the laptop screen mirrored to the HDTV or Projector.

To extend your Windows desktop to an HDTV or a Projector, press the Windows key and P key together, and select the "**Duplicate**", "**Extend**" or "**Second screen only**" mode.

What is Wi-Fi Miracast™?

Wi-Fi Certified Miracast™ is a groundbreaking solution for seamlessly displaying video between devices, without cables or a network connection. Users can view pictures from a smartphone on a big screen television, share a laptop screen with the conference room projector in real-time, and watch live programs from a home cable box on a tablet. Miracast™ connections are formed using Wi-Fi Certified Wi-Fi Direct™, so access to a Wi-Fi® network is not needed–the ability to connect is inside Miracast™-certified devices.

What is Wi-Fi Direct and can I connect to the Receiver using Wi-Fi Direct?
Wi-Fi Direct is a peer-to-peer technology that Miracast™ connections are formed in. Even though some newer Android 4.0 and Windows 8.1 devices may detect the Receiver in the Wi-Fi Direct devices scan list, they will not be able to connect to the Receiver. The device must support Miracast™ to connect with the Receiver.

Can I connect to the Wi-Fi router and the Receiver simultaneously with my compatible laptop?
Yes. Connect the laptop to an available Wi-Fi router first, and then connect to the Receiver. You can then view online content and beam it to the HDTV.

Can I connect to the Wi-Fi router and the Receiver simultaneously with my Miracast™ device?
Some Miracast™ devices cannot connect to both the Wi-Fi router and the Receiver at the same time. Refer to the device manufacturer's or carrier's user manual for more information.

Can I connect several Miracast devices to the Receiver simultaneously?
No. You can connect one device to the Receiver at a time.

Can I connect to multiple ScreenBeam 750 Receivers simultaneously?
No. You can only connect to one ScreenBeam 750 at a time.

My TV/Projector does not have an HDMI Input. Can I still use ScreenBeam 750?
Yes. An HDMI-to-VGA adapter is available for compatibility with legacy display devices.

Can Microsoft Surface Pro tablet support wireless display?
Originally, Microsoft Surface Pro does not support wireless display. However, it can support wireless display after you upgrade its operating system to Windows 8.1. The latest Microsoft Surface 2 and Surface Pro 2 with Windows 8.1 can support wireless display.

Can I use the ScreenBeam 750 to access online content directly?
No. ScreenBeam 750 does not directly connect to the Internet. You must use a source device (laptop/Ultrabook/tablet/smartphone) to wirelessly stream the online content to your Receiver.

Can ScreenBeam 750 support UIBC?
Yes. ScreenBeam 750 supports UIBC. The source device must install a Window 10 system.

Can I push media to the Receiver using DLNA?
No. The Receiver is not a DLNA media receiver.

Does the Receiver work with the Apple iPhone, iPad, or iPod?
No. The Receiver does not support Apple devices or the AirPlay protocol.

How to set my receiver to use the 5G frequency?
Generally, the 5G band can provide clearer channels, and the receiver works in this band can produce better performance.
To set your receiver on the 5G band, you must prepare a 5G router first. Note: not all routers support the 5G band. You can confirm this with the product manufacturer.
When a 5G router is available, connect your device to the 5G router first, and then connect your device to your receiver. Then your receiver will works in the 5G band.

How to identify if my device can connect to ScreenBeam 750?
ScreenBeam 750 supports WiFi Certified Miracast devices.
To check if your device is Miracast enabled, check if the WiFi Certified Miracast logo is printed on the package of your device or directly on your device, or, if the wireless display app is available on your device. If yes, your device can connect to ScreenBeam 750.

Appendix II. Specifications (Model: SBWD100B)

General

- **Language**: English, Simplified Chinese, Traditional Chinese, Japanese, French, German, Dutch, Korean, Spanish, Italian, and Russian
- **Dimensions**: 3.07 x 2.95 x 0.79 inch (78 x 75 x 20 mm)

Video

- H.264 compression
- Supports up to full HD 1080p30 resolution

Audio

- LPCM & AAC
- Supports up to 5.1 channels

A/V interface

- HDMI Type-A female connector
- VGA via adapter (included)

Wireless

- 802.11 a/b/g/n Dual-band 2.4 & 5 GHz
- WPA2, WPS virtual PBC, AES 128-bit

Content Protection

- HDCP 2.x for HDMI

Electrical

- **Input**: 5V/2A
- **Consumption**: Less than 4W
- **LED Indicator**: Power On

Firmware Upgrade

- Yes, one by one or in batch

Certification

- Wi-Fi Miracast™ (pending)

Regulatory Compliance

- FCC, IC, UL, CB, CE, SRRC, C-Tick, TELEC, RoHS and WEEE

Warranty: Localized to country of sale

Environmental

- **Operating temperature**: 0 ºC to 40 ºC (32 ºF to 104 ºF)
- **Storage temperature**: 0 ºC to 70 ºC (32 ºF to 158 ºF)
- **Operating humidity**: 10% to 85%, non-condensing
- **Storage humidity**: 5% to 90%, non-condensing

HDMI-to-VGA (YZ-050)

- Supports VGA output, 10-bit resolution up to 165MHz pixel rate of up to (1080p and UXGA)
- Supports LPCM and compressed surround sound

- Supports VGA output: 480I/P, 576I/P, 720P, 1080I/P, 640x480, 800x600, 1024x768, 1280x720, 1280x768, 1280x800, 1280x960, 1360x768, 1366x768, and 1920x1080
- Does not support protected content playback

Compatibility

- Wi-Fi Miracast smartphones, tablets, and laptops
  - Windows 8.1/Windows 10
  - Android 4.2 and higher
- Non Miracast ready laptops and PCs with Actiontec USB Transmitter
  - Windows 7 and higher
- Not compatible with Apple devices

System Requirements

- Windows 8.1 or higher (with Miracast support)
- Wi-Fi Miracast capable smartphone, or tablet, or laptop

Note: Specifications are subject to change without notice.

Appendix III. Notices

Warranty

This product has a one-year Limited Hardware Warranty and 90-day free software updates from the date of purchase.

- **Local Law**

This Limited Warranty Statement gives the customer specific legal rights. The customer may also have other rights which vary from state to state in the United States, from province to province in Canada, and from country to country elsewhere in the world.
To the extent that this Limited Warranty Statement is inconsistent with local law, this Statement shall be deemed modified to be consistent with such local law. Under such local law, certain disclaimers and limitations of this Warranty Statement may not apply to the customer.
Go to http://www.actiontec.com/products/warranty.php for more information.

GPL Info

For GNU General Public License (GPL) related information, go to http://opensource.actiontec.com.

EU CE Declaration of Conformity

To obtain the complete Declaration of Conformity form in softcopy, go to the Actiontec Electronics Declarations of Conformity EU/EEA website at http://international.actiontec.com/support/doc.
The symbol below is placed in accordance with the European Union Directive 2002/96 on the Waste Electrical and Electronic Equipment (the WEEE Directive). If disposed of within the European Union, this product should be treated and recycled in accordance with the laws of your jurisdiction implementing the WEEE Directive.

Technical Support

Go to http://actiontec.zendesk.com for product support, updates, and more information including:

- Firmware updates
- Troubleshooting
- Registration
- FAQs

Technical Support Phone Number

United States: 1-888-436-0657