

# ScreenBeam USB Transmitter

Product: Wireless LAN equipment  
Model: SBT200DI

## User Manual

V2.1

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# FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Specific Absorption Rate (SAR) information:

This Mobile Phone meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

FCC RF Exposure Information and Statement The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types: (FCC ID: LNQSBT200DI) has also been tested against this SAR limit

According to this standard, the highest SAR value reported during product certification for body use is 0.654 W / kg,

The device was tested for typical bodily operations where the product was kept 5 mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a separation distance of 5 mm between the user's body and the back of the phone. The use of belt clips, holsters and similar accessories shall not contain metal parts in its assembly. Use of accessories that do not meet these requirements may not comply with FCC RF exposure requirements and should be avoided.

Body wear operation

The device was subjected to a typical body manipulation test. In order to comply with RF exposure requirements, a minimum separation distance of 0.5 cm must be maintained between the user's body and the product (including the antenna). The accessories used in this equipment should not contain any metal parts. Body wearing accessories that do not meet these requirements may not meet RF exposure requirements and should be avoided. Use only the supplied or approved antenna.

FCC ID: LNQSBT200DI

## IC Caution

RSS-Gen Issue 4 December 2014" & "CNR-Gen 4e Décembre 2014:

- English:

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

- French:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC RF Exposure Information and Statement The SAR limit of Canada (C) is 1.6 W/kg averaged over one gram of tissue. Device types: (IC:2496A-SBT200DI) has also been tested against this SAR limit

According to this standard, the highest SAR value reported during product certification for body use is 0.654 W / kg,

The device was tested for typical bodily operations where the product was kept 5 mm from the body. To maintain compliance with IC RF exposure requirements, use accessories that maintain a separation distance of 5 mm between the user's body and the back of the phone.

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IC:2496A-SBT200DI

# Part I. Introduction

The ScreenBeam USB Transmitter (used in conjunction with a ScreenBeam Series Wireless Display Receiver) wirelessly mirrors the content on a Windows 7, 8 (8.1) or 10 computer to an HDTV monitor. With the Transmitter, enjoy videos, photos, and movies on the best display available, or share a laptop screen with a conference room projector. The Transmitter supports up to 720p HD video, offering the convenience of wireless technology without compromising the HD experience. And if the computer being used does not support WiFi Miracast or Intel WiDi, the Transmitter's ScreenBeam Wireless Display software supports computers running Windows 7, 8 (8.1), and 10.



## 1.1. Features

Key features include:

- I Works with Windows 7, 8 (8.1) and 10 systems (see minimum system requirements)
- I Wirelessly streams movies, videos, photos, music, applications, etc., directly to an available HDTV monitor
- I Beams presentations, spreadsheets, and collaboration projects directly to an HDTV monitor or projector
- I Directly connects with a ScreenBeam Receiver for better video quality; does not interfere with existing Wi-Fi networks
- I Operates in 5Ghz frequency for optimal mirroring experience
- I Compatible with all models of ScreenBeam Receivers
- I No existing wireless network or line of sight connection required

## 1.2. System Requirements

- I Laptop or PC running Windows 7, 8 (8.1) and 10 (32/64 bit)
- I Minimum system requirements (for web browsing, presentations, or slideshows):
  - w Processor: AMD® A6 or Intel® Gen 3 Core™ i3 equivalent processor
  - w Memory: 2GB RAM or more

- w Hard disk space: 150MB or more
- w Miscellaneous: available USB port
- I Recommended system requirements(for video streaming):
  - w Processor: AMD® A8 or Intel® Gen 3 Core™ i5 equivalent processor
  - w Memory: 3 GB RAM or more

### 1.3. Getting to Know the Transmitter

The ScreenBeam USB Transmitter is used for non-Miracast or non-WiDi laptops.

The USB Transmitter has a single USB connection, used to connect to a USB port on a Windows 7/8/8.1/10 laptop computer not running Miracast or WiDi. To connect with ScreenBeam Receivers, install the ScreenBeam Wireless Display software on the computer (see Section 2.1. Loading the Software).



## Part II. Connecting to a Receiver

If the computer being used does not have Miracast or WiDi enabled, the **ScreenBeam Wireless Display** software must be loaded onto the computer connected with the Transmitter, and then the Receiver must be paired to the Transmitter. Make sure you have the following items handy:

- I ScreenBeam USB Transmitter
- I ScreenBeam Wireless Display software CD
- I A compatible computer running Windows 7, 8 (8.1) or 10

### 2.1. Loading the Software

To load the ScreenBeam software and connect the Transmitter to a computer:

1. Insert the ScreenBeam CD into the CD drive of the computer.
2. An AutoPlay window appears. Click **Run setup.exe**, and then follow the onscreen instructions.

If the AutoPlay screen does not appear, locate the CD-ROM folder, then double-click **setup.exe**. If the computer does not have a CD/ DVD drive, go to <http://www.actiontec.com/products/sbupdate.php> to download the software.

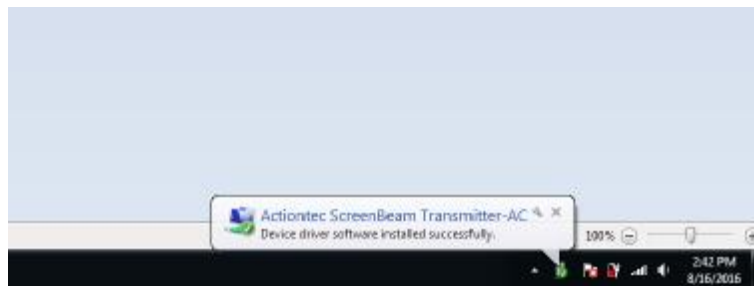


3. A series of screens appears. Follow the on-screen instruction to complete the software installation.
4. After the software installation is finished, insert the Transmitter into a USB port on the computer.

5. The computer starts to install drivers for the Transmitter. See the Notification area in the lower right corner of the computer's screen for details.



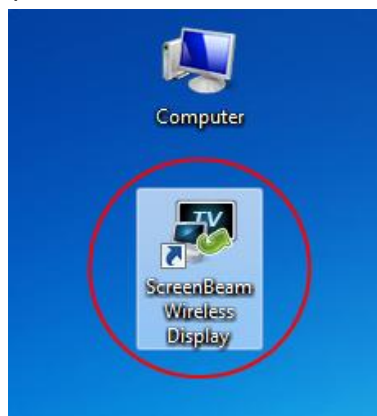
6. When the driver installation is finished, the Transmitter is ready for wireless display.



## 2.2. Pairing the Transmitter

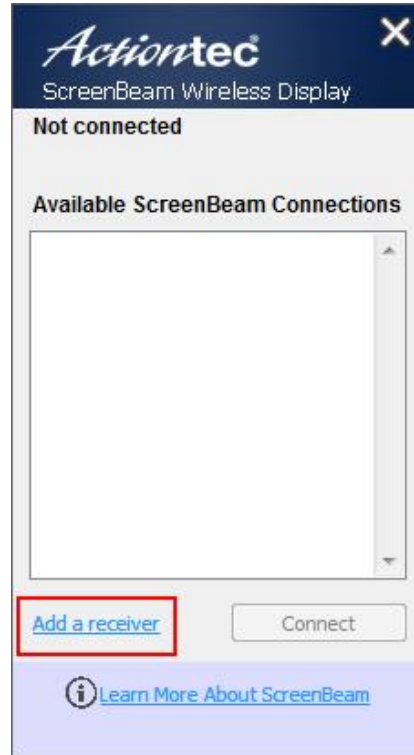
Before pairing the Transmitter, make sure the Receiver is connected to an HDTV monitor and powered on, and the Transmitter is connected to a computer. To pair the Transmitter:

1. After the software and drivers are installed, double-click the **ScreenBeam Wireless Display** icon on the desktop.

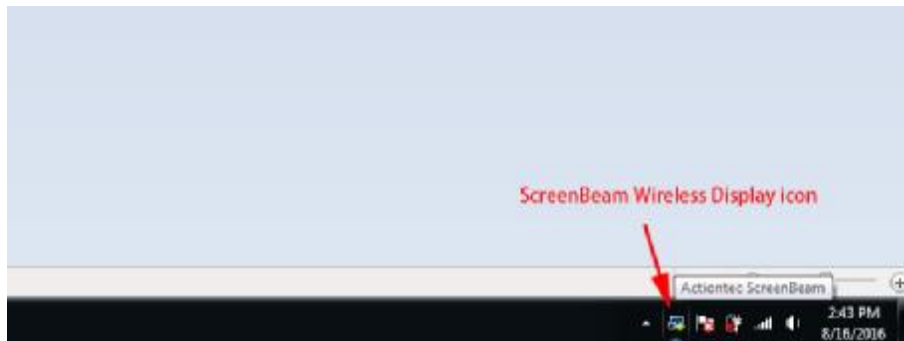


2. The the **ScreenBeam Wireless Display** screen appears. Click **Add a Receiver**.

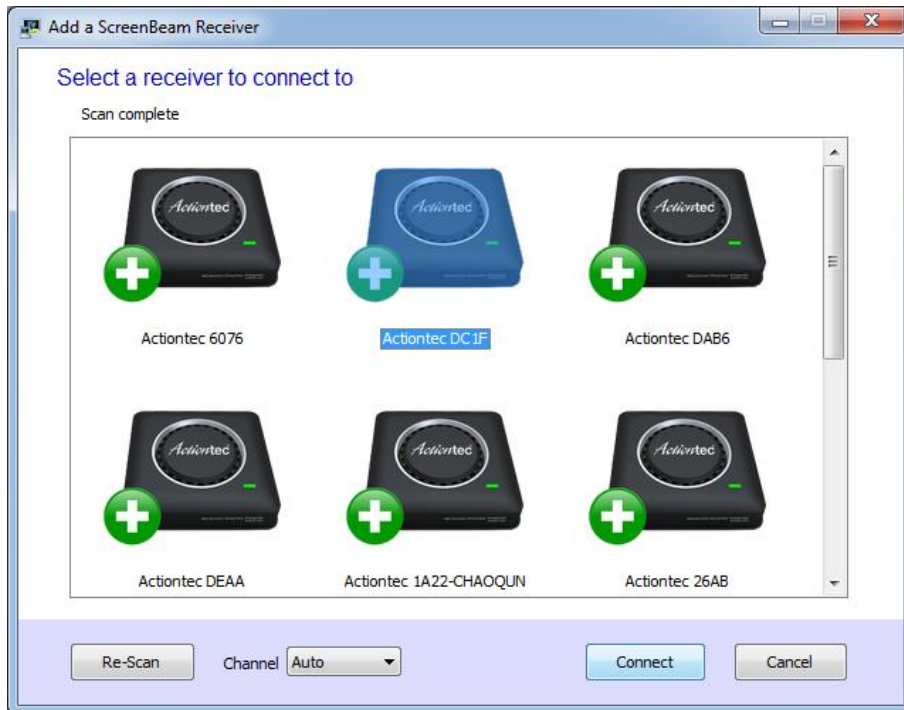




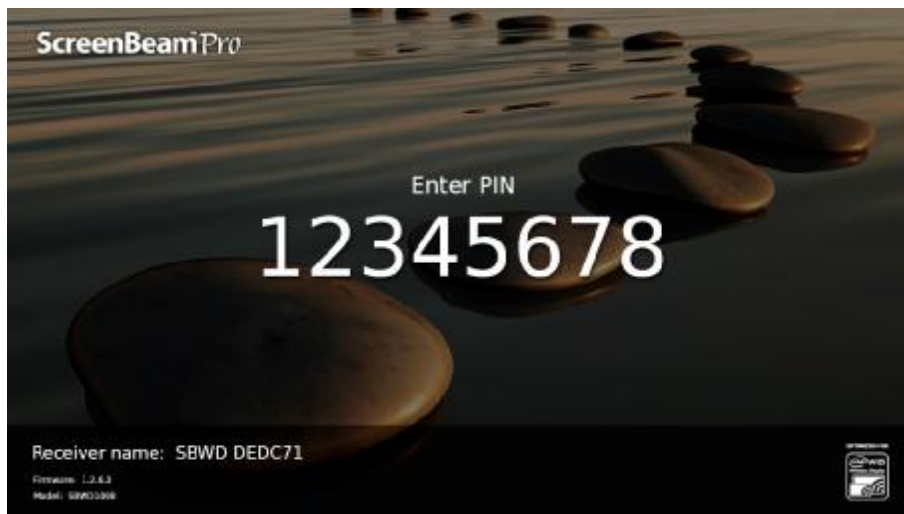
**Note:** If the **ScreenBeam Wireless Display** screen is not displayed after the software is launched, locate it in the Notification Area. Click the **ScreenBeam Wireless Display** icon to display the main screen.

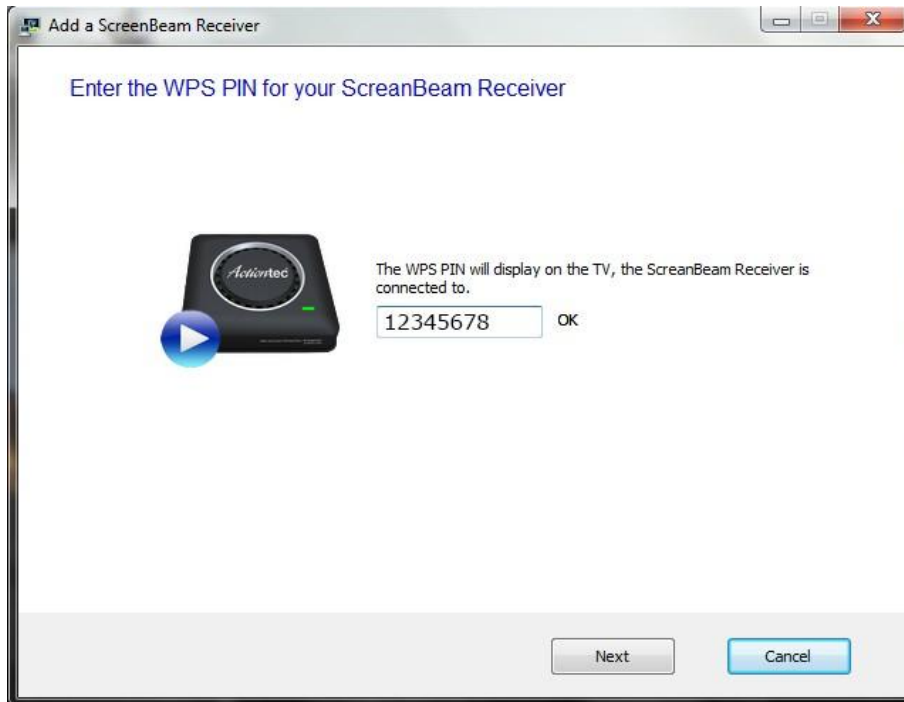


3. The **Add a ScreenBeam Receiver** screen appears. Select the appropriate receiver, then click **Connect**.



4. A PIN (Personal Identification Number) appears on the HDTV monitor connected to the Receiver. Enter the PIN in the **Add a ScreenBeam Receiver** screen on the computer within 60 seconds, then click **Next**.



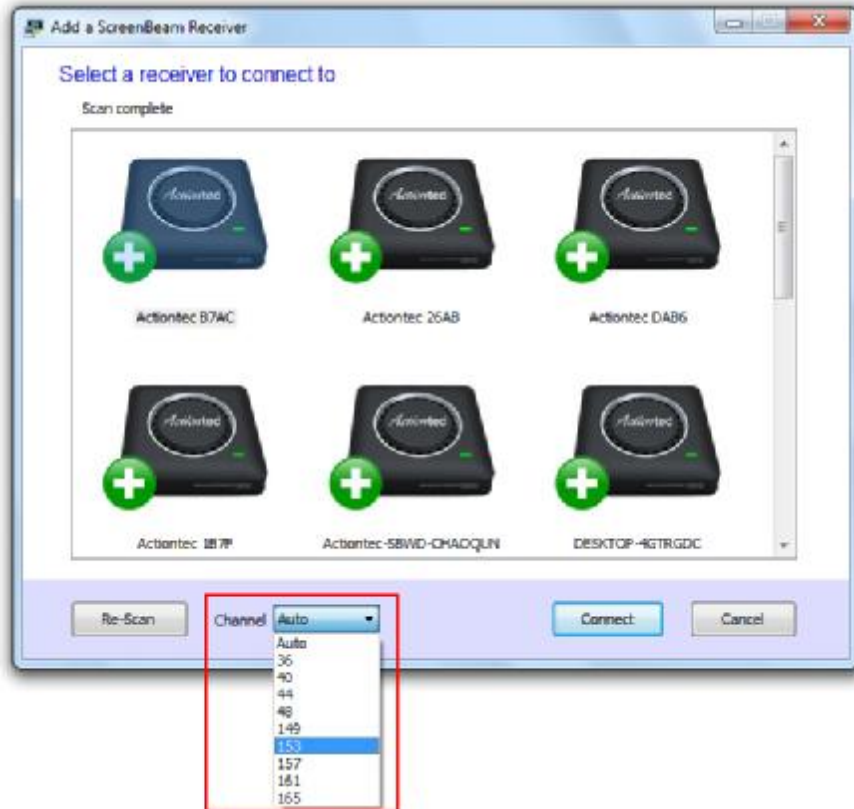


The Receiver and Transmitter are now paired, and the computer's screen should be visible on the HDTV monitor.

## 2.3. Selecting a Wireless Channel

The **ScreenBeam Wireless Display** software provides wireless channel selection, which allows the use of a specific channel (5GHz band) for its wireless connection. To select a wireless channel:

1. Start the **ScreenBeam Wireless Display** software, then click **Add a receiver** from the main screen.
2. The **Add a ScreenBeam Receiver** window appears. Select a channel from the **Channel** drop-down menu.



**Note:** When selecting a wireless channel, “**Auto**” is the recommended choice. This setting allows the software to automatically select the clearest channel available.

3. Select the appropriate Receiver, then click **Connect**. The selected channel will be used.

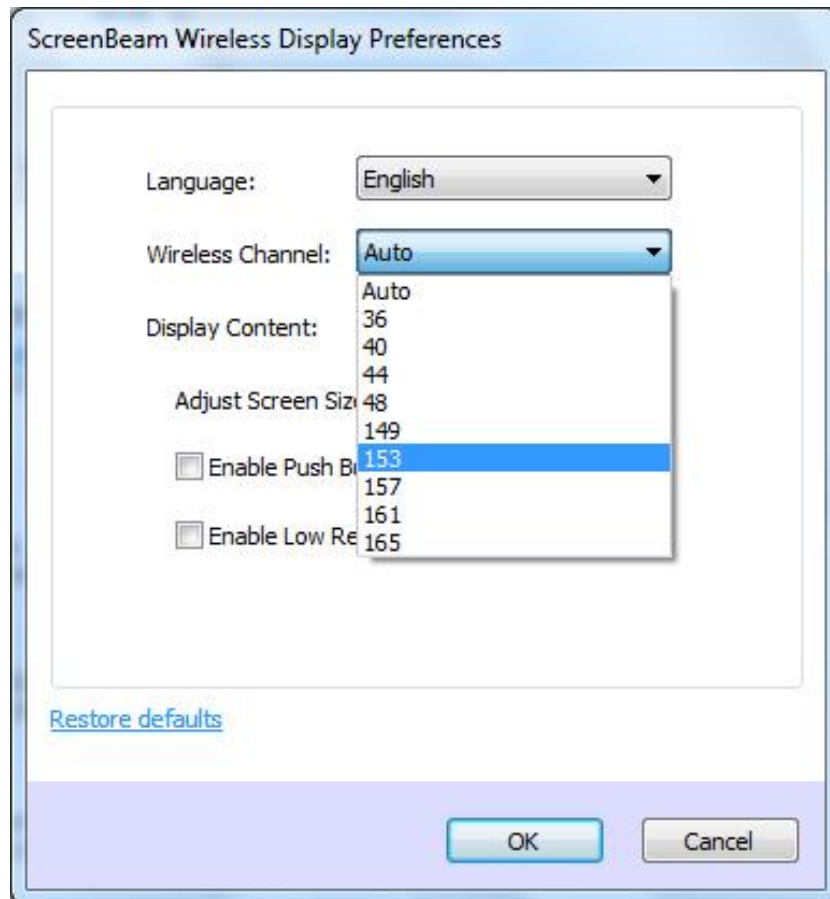
**Note:**

- I This channel is used for adding a new Receiver.
- I Availability of channels depends on the sales region.

### 2.3.1. Using Preferences

You can also define a wireless channel from the **Preferences** window. To select a wireless channel:

1. Make sure the computer is disconnected from the Receiver, then open the ScreenBeam Wireless Display’s **Preferences** window.
2. Select the desired channel from the **Wireless Channel** list, then click **OK**.



3. Reconnect the computer to the Receiver. The selected channel will be used.

**Note:**

- I The wireless channel configuration in the **Preferences** window is used for persistence connection. Generally, “**Auto**” is recommended.
- I Availability of channels depends on the sales region.

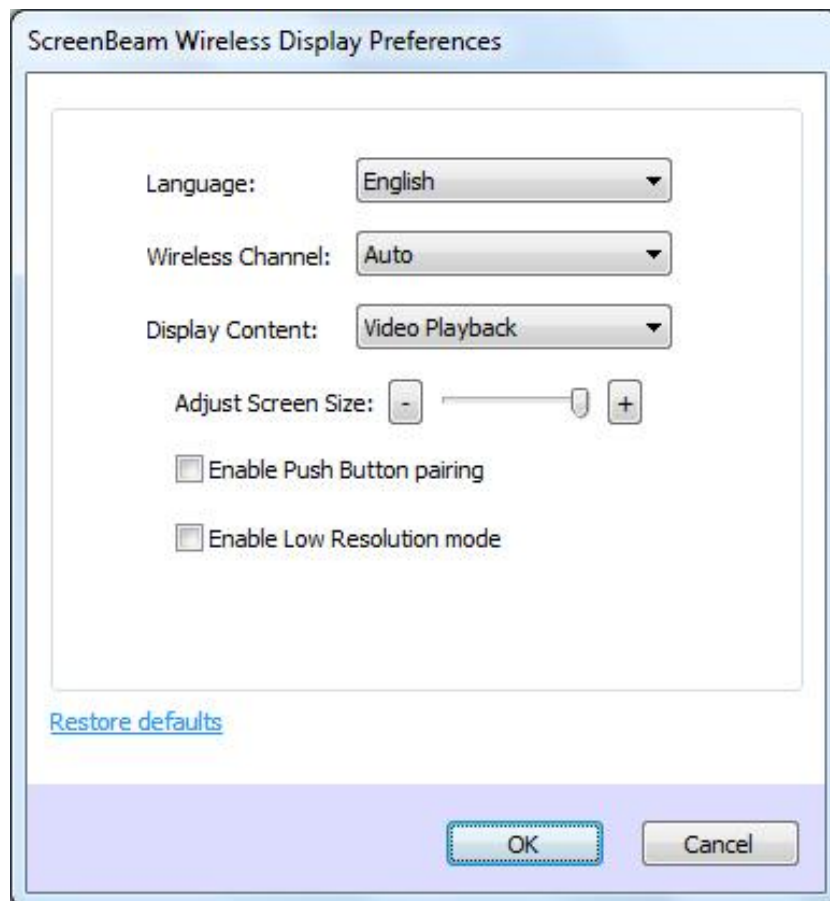
# Part III. Setting Wireless Display Preferences

This chapter details how to adjust the Transmitter's wireless display options. Most of these settings reside in the ScreenBeam Wireless Display Preferences window.

## 3.1. Preferences Window

To open the ScreenBeam Wireless Display Preferences window, right-click the ScreenBeam icon from the Notification Area of the computer's desktop. When the ScreenBeam options menu appears, click **Preferences**.

**Note:** Changing these preferences affects computers running Windows 7/8/8.1/10 only.



## 3.2. Language

Select the language used by the **ScreenBeam Wireless Display** software.

### 3.3. Wireless Channel

The wireless channel on which the Receivers operate can be changed here.

**Auto** is recommended; this setting automatically selects the clearest channel available.

**Note:** Availability of channels depends on the sales region.

### 3.4. Display Content

Display Content allows Receivers to be configured for an optimal viewing experience on the HDTV. By default, Video Playback is selected for better video display. Select Presentation/Slideshow for a better still image display.

### 3.5. Adjust Screen Size

Adjusting this slider changes the size of the picture on the HDTV monitor. This is useful if the picture on the HDTV screen is overscanned—that is, the picture looks too big to fit on the screen. If this occurs, adjust the slider until the entire picture appears on the HDTV screen.

### 3.6. Enable Push Button Pairing

Activating this option allows devices or computers to connect with a Receiver without having to enter a Personal Identification Number (PIN).

### 3.7. Enable Low Resolution Mode

Activating this option transmits a lower resolution picture to the HDTV monitor, which can be useful when viewing video content (movies, television shows, etc.).

### 3.8. Restore Defaults

Click **Restore defaults** to reset all settings in the **Preferences** window to their factory default settings.

## **3.9. Windows Viewing Configuration**

There are two options here: Mirroring and Extended Desktop.

### **3.9.1. Mirroring**

By default, ScreenBeam mirrors the screen from the computer on the HDTV monitor.

### **3.9.2. Extended Desktop**

ScreenBeam can be used with Windows Extended Desktop mode on the computer, which creates a single desktop that stretches across both the computer screen and the HDTV monitor. To use Extended Desktop, toggle the display output type on the Windows 7/8/8.1/10 computer.

Additionally, a hot key (Windows key + P) can be used, or the setting can be manually configured from the system's Display settings. Refer to your computer user guide for more information.



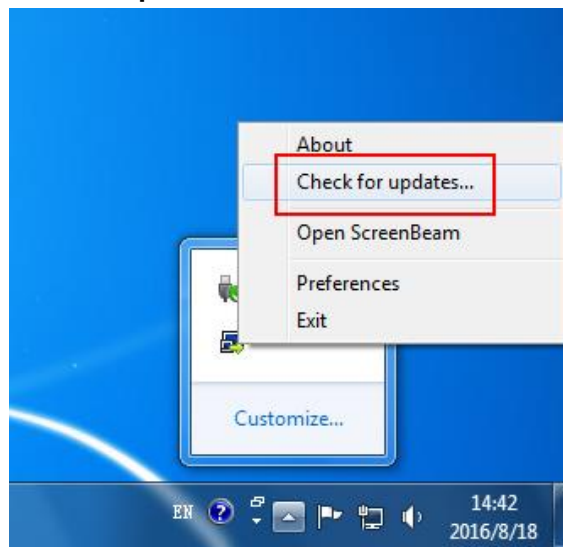
## Part IV. Updating Software

This chapter shows how to update the ScreenBeam Wireless Display software when using the ScreenBeam USB Transmitter with a Windows 7/8/8.1/10 computer.

**Note:** Internet access is required for updating the software.

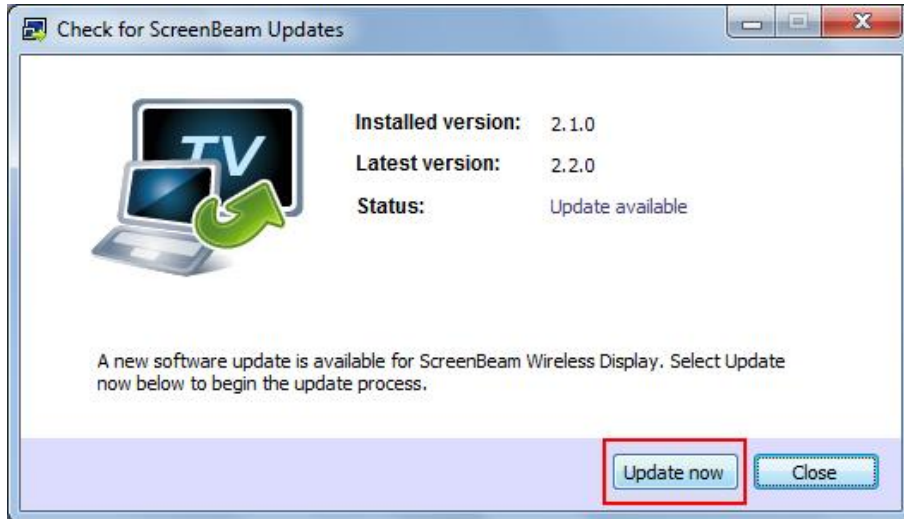
Follow the procedure below to update the ScreenBeam Wireless Display software:

1. Make sure that **ScreenBeam Wireless Display** software is disconnected from the receiver. Then, right-click the **ScreenBeam Wireless Display** icon in the Notification Area and select **Check for updates....**



**Note:** Performing a software update may cause the **ScreenBeam Wireless Display** application to restart. If this occurs, relaunch the **ScreenBeam Wireless Display** application after the update is completed.

2. The **Check for ScreenBeam Updates** window appears, checking for available updates. A software update is available when it displays **Update available** in the **Status** line. Click **Update now** to continue.



3. The **ScreenBeam Wireless Display** application downloads the upgrade installation files.



4. When the download is complete, click **Update** and follow the onscreen instructions to upgrade the **ScreenBeam Wireless Display** application.



The ScreenBeam Wireless Display application has been updated.

# Part V. Frequently Asked Questions

This chapter lists a series of frequently asked questions concerning the operation of the ScreenBeam components.

**Note:** Go to <http://www.actiontec.com/screenbeam> to access any FAQs created or updated after the publication date of this manual.

## **I've inserted the software CD into the CD-ROM drive, but it doesn't install. What should I do?**

In Windows Explorer, browse to the CD-ROM drive (e.g., D:), then locate and double-click the **Setup.exe** file.

## **My laptop computer does not have a CD-ROM drive. How can I install the ScreenBeam Wireless Display software?**

If your computer doesn't have a CD-ROM drive, go to the following link:

<http://www.actiontec.com/products/sbupdate.php>. You will need information from the sticker on the bottom of the Receiver. Once you have entered the information, download the software as indicated on the web page.

## **The ScreenBeam Wireless Display software can't launch– it says it can't find a USB Transmitter. How can I solve this?**

First, if the display software doesn't launch, wait about a minute before trying anything else. Then, unplug and plug the Transmitter back in, and try launching the display software again. If that doesn't work, open the Windows Device Manager and make sure the ScreenBeam Transmitter is NOT disabled (locate it under Network).

## **Should I be concerned if Windows' firewall or anti-virus software warns that ScreenBeam is trying to open a port?**

ScreenBeam requires Windows to temporarily open a port to stream content to the TV. Click **Allow** when the message appears. Some antivirus software settings can be more restrictive than others, and you may not get a notification at all. If you are using anti-virus software and ScreenBeam is not operating properly, you may need to temporarily disable the anti-virus software, and re-enable it after using ScreenBeam. If the problem persists, consult your anti-virus user guide to configure the proper settings for ScreenBeam.

## **I cannot detect the Receiver from my laptop computer using the ScreenBeam Wireless Display software. What's wrong?**

First, make sure the Transmitter is connected to the USB port. Then, select **Add a receiver** and try again.

## **My laptop/PC displays the following message: "Color scheme has been changed." Is this a problem?**

No. Select **Keep the current color scheme and don't show this message again**.

**ScreenBeam receiver displays a screen that seems to be larger than my TV can handle. How can I fix this?**

Right-click the **ScreenBeam** icon in Windows' Notification Area at the bottom right of the desktop. A menu will appear. From the menu, select **Preferences**, then adjust the screen size.

**Why is my laptop/PC's audio muted once I connect to ScreenBeam receiver?**

It is muted because the audio is now being broadcast through the TV.

**Why am I experiencing stuttering video and out-of-sync audio?**

If this occurs, make sure your system meets the recommended requirements for optimal video playback experience. You can also place the ScreenBeam Receiver in an open space and try again. If running your laptop on battery, make sure its power settings are configured for "Maximum Performance" or plug-in your laptop's power cable.

**My video quality is poor, or I'm seeing a mosaic display on my HDTV. What should I do?**

First, make sure the laptop/PC meets the recommended system requirements. If you're seeing constant mosaic picture/video display, disconnect and then reconnect the ScreenBeam components.

**When viewing video, sometimes I see a horizontal line appears across the screen. What should I do?**

This may occur when you use Windows Media Player to play video. You may try another video/media player application to resolve this issue.

**How can I update my ScreenBeam Wireless Display software?**

Open the ScreenBeam Wireless Display application. Right-click the ScreenBeam Wireless Display icon in the Notification Area and select **Check for updates....** Make sure the laptop/PC is connected to the Internet.

**Why am I unable to play a DVD or Blu-ray disc when connected to a ScreenBeam receiver?**

Currently, ScreenBeam USB Transmitter and Wireless Display software do not support streaming of protected content such as DVD/Blu-ray movies, TV shows, etc.

**What should I do if the ScreenBeam Wireless Display software cannot connect or pair with a Receiver?**

Reboot the laptop and power cycle the Receiver. Also, try selecting a different wireless channel before connecting. To do this, from the **Add a Receiver** screen, click the wireless channel drop-down menu, then select a different wireless channel.