

ScreenBeam USB Transmitter

Model # SBT100U

User Guide

Table of Contents

Introduction	4
<i>Features</i>	<i>5</i>
<i>System Requirements</i>	<i>5</i>
<i>Getting to Know the Transmitter</i>	<i>6</i>
Connecting to a Receiver	7
<i>Loading the Software</i>	<i>8</i>
<i>Pairing the Transmitter</i>	<i>11</i>
<i>Selecting a Wireless Channel</i>	<i>16</i>
Setting Wireless Display Preferences	18
<i>Preferences Window</i>	<i>18</i>
<i>Windows Viewing Configuration</i>	<i>21</i>
Updating Software and Firmware	22
Frequently Asked Questions	28

Specifications and Technical Support	32
<i>Specifications</i>	32
<i>Technical Support</i>	34

Introduction

The ScreenBeam USB Transmitter (used in conjunction with a ScreenBeam Series Wireless Display Receiver) wirelessly mirrors the content on a Windows 7 or 8 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 and 8.



Features

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

System Requirements

- Laptop or PC running Windows 7 or Windows 8 (32/64 bit)
- Minimum system requirements (for web browsing, presentations, or slideshows):
 - Processor: AMD® A6 or Intel® Gen 3 Core™ i3 equivalent processor
 - Memory: 2GB RAM or more
 - Hard disk space: 150MB or more
 - Miscellaneous: available USB port
- Recommended system requirements(for video streaming):
 - Processor: AMD® A8 or Intel® Gen 3 Core™ i5 equivalent processor
 - Memory: 3 GB RAM or more

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 laptop computer not running Miracast or WiDi. To connect with ScreenBeam Receivers, install the ScreenBeam Wireless Display software on the computer (see *Loading the Software* on page 8).



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 the Transmitter, and then the Receiver must be paired to the Transmitter. Make sure you have the following items handy:

- ScreenBeam USB Transmitter
- ScreenBeam Wireless Display software CD
- A compatible computer running Windows 7 or 8

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.



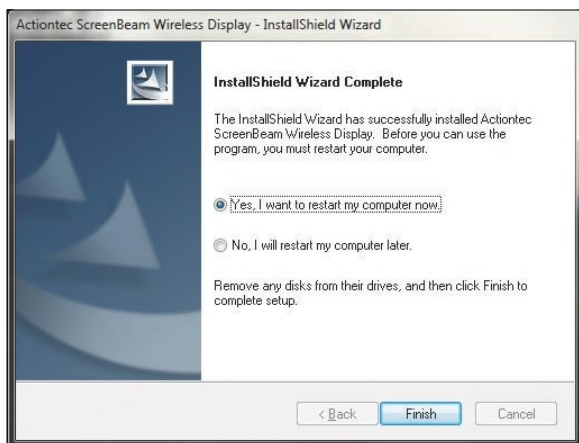
3. A series of screens appears, detailing the steps to connect the Receiver to an HDTV monitor. Click through them.

Connecting to a Receiver

4. When the screen shown below appears, insert the Transmitter into a USB port on the computer. Click **Next**.



5. Click the button next to *Yes, I want to restart my laptop/PC now*, and then click **Finish**.

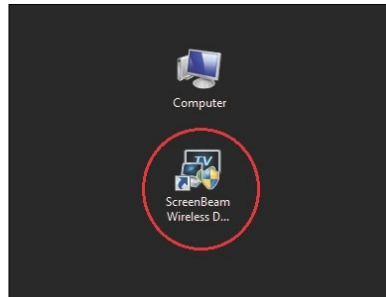


The laptop/PC reboots. After it finishes rebooting, go on to the next section.

Pairing the Transmitter

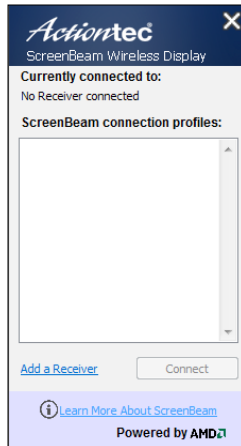
Before pairing the Transmitter, make sure the Receiver is connected to an HDTV monitor and powered on, and the Transmitter is connected to a computer. To pair the Transmitter:

1. After the computer reboots, double-click the *ScreenBeam Wireless Display* icon on the desktop.



ScreenBeam USB Transmitter

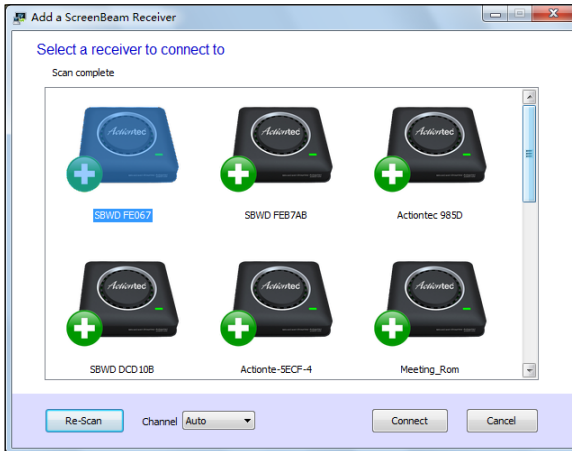
2. The *ScreenBeam Wireless Display* screen appears. Click **Add a Receiver**.



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.

Connecting to a Receiver

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



ScreenBeam USB Transmitter

Note: A registration key may need to be entered before the *Add a ScreenBeam Receiver* screen appears. The registration key is found in the product packaging.

Add a ScreenBeam Receiver

Validate your registration key

Please spend a moment to fill out the following information.

Full Name:*

Email:*

Registration Key:* - - -

* Required information

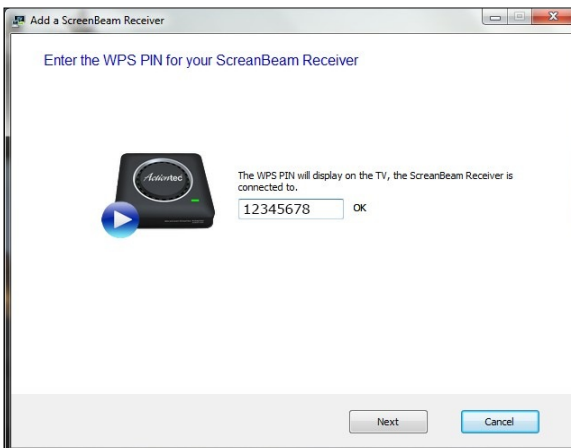
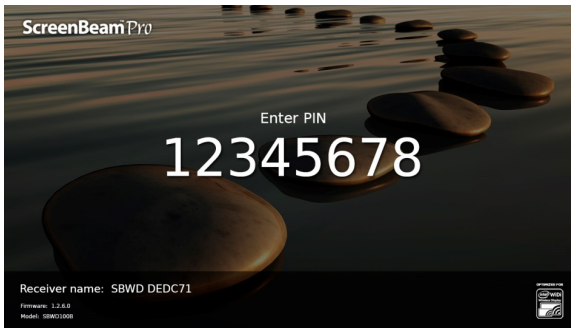
The registration key can be found in the product packaging.

[Click to apply for a key using the Online Form.](#)

Cancel OK

Connecting to a Receiver

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

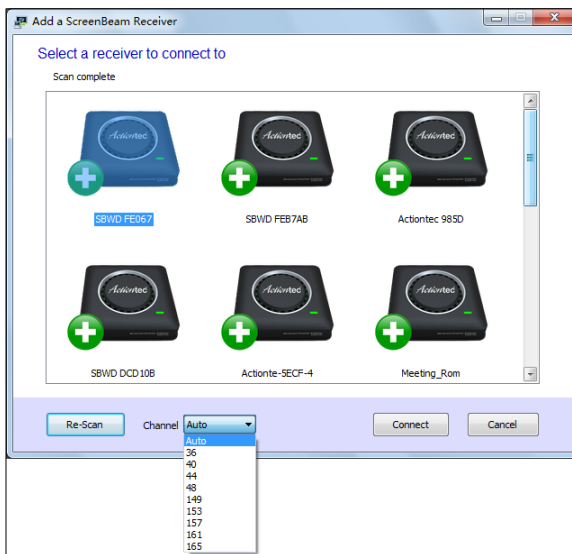


The Receiver and Transmitter are now paired, and the computer's screen should be visible on the HDTV monitor.

Selecting a Wireless Channel

The ScreenBeam software provides wireless channel selection, which allows the use of a specific channel (5GHz band) its for 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.

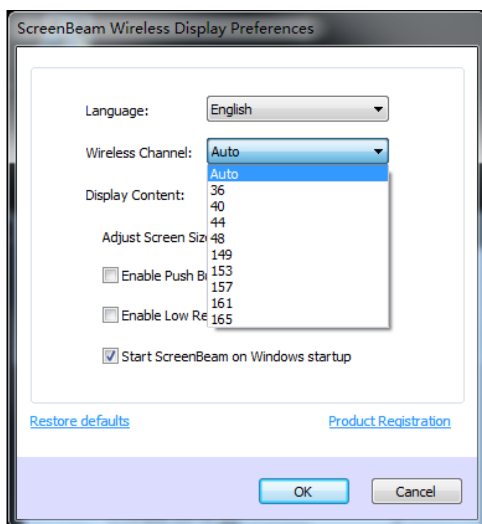
4. Select the appropriate Receiver, then click **Connect**. The selected channel will be used.

Note: This channel is used for adding a new Receiver.

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**.



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

Note: The wireless channel configuration in the Preferences window is used for persistence connection. Generally, "Auto" is recommended.

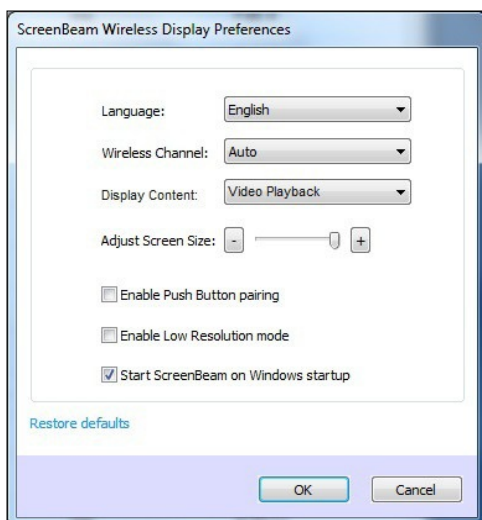
Setting Wireless Display Preferences

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

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 only.



Language

Select the language used by the ScreenBeam Wireless Display software.

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.

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.

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.

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).

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.).

Start ScreenBeam on Windows Startup

Activating this option causes the ScreenBeam Wireless Display software to start up anytime the laptop/PC is turned on or rebooted.

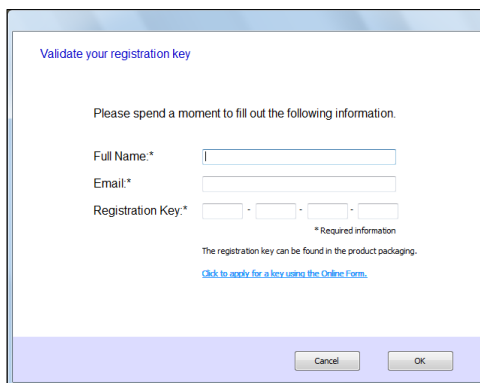
Restore Defaults

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

Product Registration

Click **Product Registration** to display the *Product Registration* window. Enter the correct information and click **OK**.

Note: The registration key can be found in the product packaging.



The screenshot shows a dialog box titled "Validate your registration key". Inside, it asks the user to "Please spend a moment to fill out the following information." There are three input fields: "Full Name:*" (a single text box), "Email:*" (a single text box), and "Registration Key:*" (four separate boxes separated by hyphens). Below these fields, it says "* Required information" and "The registration key can be found in the product packaging." There is a blue link that says "Click to apply for a key using the Online Form." At the bottom of the dialog box are "Cancel" and "OK" buttons.

Windows Viewing Configuration

There are two options here: Mirroring and Extended Desktop.

Mirroring

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

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 computer. Additionally, a hot key 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.

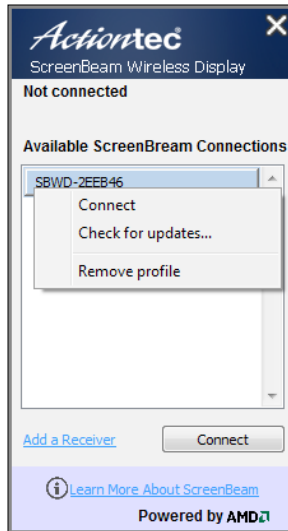
Updating Software and Firmware

This chapter shows how to upgrade the ScreenBeam Wireless Display software and the Receiver's firmware when using the ScreenBeam USB Transmitter with a Windows 7/8 computer.

Note: Updating Receiver's firmware through the ScreenBeam Wireless Display software does not support ScreenBeam Pro Education Edition 2 and ScreenBeam Pro Business Edition. Refer to their respective user manuals for more information.

Follow the procedure below to update the Receiver's firmware and the ScreenBeam Wireless Display software:

1. Make sure that ScreenBeam Wireless Display software is disconnected from the Receiver. Then, right-click a Receiver's profile from the *ScreenBeam Wireless Display* window 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.

Updating Software and Firmware

2. Another window appears, checking for available updates.

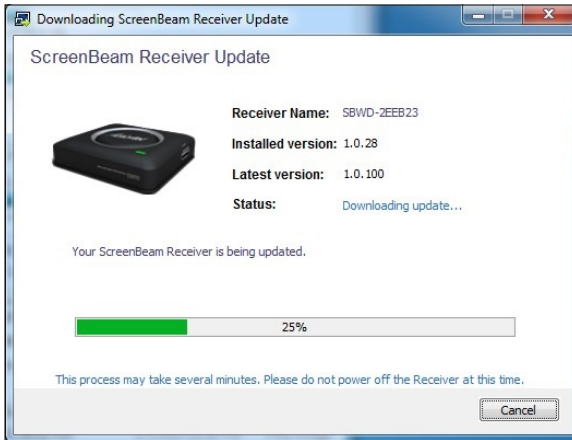


3. When the check is complete, it will indicate whether an update is available. If one is available, click **Update now**.

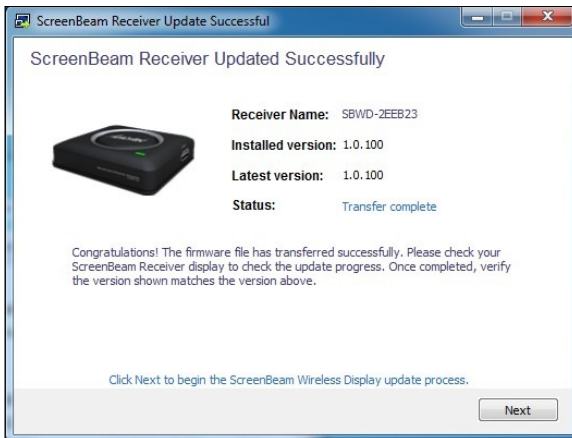


ScreenBeam USB Transmitter

4. The Receiver's firmware update is performed first. Do not power off the Receiver during the update.



5. The firmware is downloaded and transferred to the Receiver. Do not power off the Receiver or remove the Transmitter during this transfer.
6. Once the firmware transfer is complete, the Receiver reboots. If there are more updates available for the ScreenBeam Wireless Display application, click Next.



Updating Firmware and Software

7. The ScreenBeam Wireless Display application update downloads the upgrade installation files.



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



Updating Firmware and Software

The ScreenBeam Wireless Display application has been updated, as well as the Receiver's firmware.

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 anti-virus 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 Receiver you’ve previously connected to 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.

Specifications and Technical Support

Specifications

General

Model Number

SBT100U

Software and USB Transmitter

Minimum System Requirements

AMD® A6 or Intel® Gen 3 Core™ i3 equivalent processor

2GB of RAM

150MB of hard disk space

Available USB port

Recommended System Requirements

AMD® A8 or Intel® Gen 3 Core™ i5 equivalent processor or faster

3GB of RAM or higher

Features

Wireless display

Mirroring

Extended desktop mode

OS Supported

Windows 7, Windows 8/8.1 (32/64-Bit)

Video Output (from USB Transmitter)

Up to 720p display resolution¹

1280 x 720 (Windows 7)

1280 x 768 (Windows 8)

Audio Output (from USB Transmitter)

Stereo audio

Environmental

Regulatory

FCC part 15, IC, UL

Operating Temperature

0° C to 40° C (32°F to 104°F)

Storage Temperature

0°C to 70°C (32°F to 158°F)

Operating Humidity

10% to 85% non-condensing

Storage Humidity

5% to 90% non-condensing

Note: Specifications are subject to change without notice.

Technical Support

If you need technical assistance, contact Actiontec's Technical Support Department through the following:

Phone (USA)

1-888-436-0657

Email

http://support.actiontec.com/email_support/support_form.php

Internet

<http://www.actiontec.com/support>