

Model: DGIMST10



# DigiSender<sup>®</sup> iMedia

*The SmartTV interface for your Smartphone, Tablet, Laptop & PC*

*SmartSender*



*Please keep this Instruction Manual for future reference*

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*For indoor use only. Do not expose the unit to moisture as this may lead to faulty operation and risk of electric shock.*

*Risk of electric shock, do not open. None of the contents of this DigiSender® iMedia® pack contain user-serviceable parts.*



*Avoid dripping or splashing liquids on the unit and do not place objects filled with liquid on it.*

*The rating label is located on the base of the unit.*

# 1 Introduction

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## 1.1 About the iMedia® SmartSender™

Congratulations on purchasing the new DigiSender® iMedia® SmartSender™ from AEI Security & Communications Ltd.

The DigiSender® iMedia® SmartSender™ enables all manner of digital media to be played on your existing home TV and features 2 basic modes of operation.

'**PC Sender Mode**' allows you to send your PC or Laptop screen to your TV, so that whatever you see on your computer screen, you can also see on your TV. This is great for web surfing, working on documents, business presentations, listening to music and much more.

'**Media Streaming Mode**' allows you to play music, video and photos stored on other Digital Media devices that are connected to your Network. Whether it is your flatmates PC, the kitchen laptop or a friends SmartPhone, the iMedia® SmartSender™ allows you to connect them all to your TV wirelessly.



## 1.2 What's in the Box

All products are computer weight checked when packed, however, it is a good idea to check that all the kits contents are present before proceeding.



iMedia® SmartSender™



iMedia® Software Disc



Ethernet Cable



HDMI Cable



Power Cable



## 2 The iMedia® Utility Program

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### 2.1 Hardware & Software

For best results and smooth playback, please refer to the Hardware Recommendations below.

#### 2.1.1 Hardware Recommendations

##### **Desktop or Workstation PC**

CPU:	2.0GHz Intel Core 2 Duo or better
Chipset:	Intel 965 series chipset or better
Memory:	2GB DDR2-800MHz
Graphics Card:	NVIDIA GeForce 8400GS / ATI Radeon X300 or better
Network:	802.11 g/n Wi-Fi and/or 100/1000 Mbps Ethernet

##### **Notebook or Laptop PC**

CPU:	2.0GHz Intel Core 2 Duo or better
Chipset:	Intel 965 series chipset or better
Memory:	2GB DDR2-800MHz
Graphics Card:	NVIDIA GeForce 8200M / ATI Radeon Mobility X300 / Intel X3100 Integrated Graphics Chipset or better
Network:	802.11 g/n Wi-Fi and/or 100/1000 Mbps Ethernet

#### 2.1.2 Supported Operating Systems

Windows 7 64bit (x64)  
Windows 7 32bit (x86)  
Windows Vista (Service Pack 1 or later) 32bit (x86)  
Windows Vista (Service Pack 1 or later) 64bit (x64)  
Windows XP (Service Pack 3 or later)

## 2.2 Installing the iMedia® Utility Program

It is recommended that you close all open programs before proceeding with this installation.

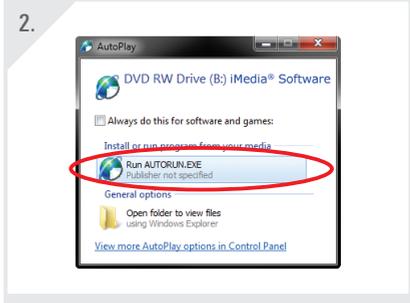
### 2.2.1 Standard Installation

1.



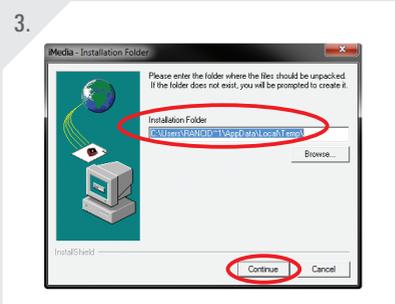
Place the iMedia® Software Disc into the disc tray of your PC or Laptop

2.



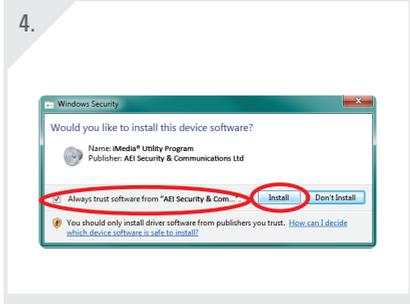
In the AutoPlay menu, select 'AUTORUN.exe'. If the AutoPlay menu doesn't appear, open **My Computer**, click the disc drive and double click the 'AUTORUN.exe' file.

3.



Choose a folder to unpack the files to and then click the 'Continue' button.

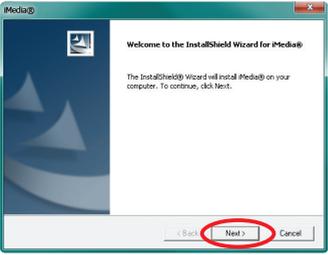
4.



If a window appears asking "Would you like to install this device software", tick the box next to 'Always trust software from ...' and then click the 'Install' button.

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5.



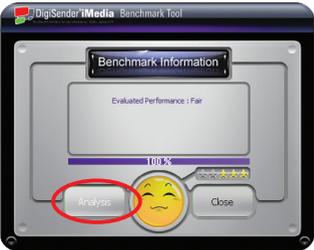
Click the 'Next' button to install the iMedia® Utility Program when prompted to do so by the Install Wizard.

6.



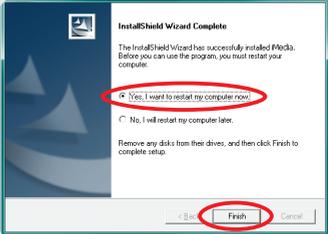
After the program and drivers are installed, the Benchmark Tool will automatically start.

7.



Click the 'Analysis' button to perform the Benchmark Test. After approximately 10 seconds the results will be displayed. See Section '2.2.2 The Benchmarking Tool' on page 09 for more information.

8.



After Benchmarking is complete, click 'Close' and in the next window choose "Yes, I want to restart my computer now." and then click the 'Finish' button. Make sure to save any open documents before restarting your computer.

## 2.2.2 The Benchmarking Tool

The Benchmarking Tool evaluates your PC's capability to run the iMedia® Utility Program and send your PC screen to your TV smoothly.

It is launched automatically during installation, but can be launched at any point by clicking the iMedia® Benchmarking Tool shortcut in the Start menu.

The chart below outlines the various levels of performance.

Stars	Level	Explanation
★☆☆☆☆	Lowest	The CPU and/or Graphics Card are not supported by the iMedia® Utility Program
★★☆☆☆	Low	Acceptable music/picture playback and web surfing but it is suggested that you lower your PC desktop resolution to support video playback
★★★☆☆	Average	Average music playback and picture viewing, however video playback might be slightly laggy
★★★★☆	Good	Smooth playback of music, pictures and video
★★★★★	Excellent	Great performance! You can expect flawless playback of most media.

**Note:** The level of performance can be affected by changing your PC desktop resolution or the theme settings in Windows 7 and Windows Vista. See Section '5.2.2 Laggy Picture / Poor Frame Rate' on page 39 for more information.

## 2.3 Using the iMedia® Utility Program

### 2.3.1 Basic Usage

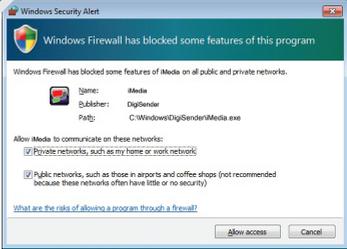
The following section will explain the basics of using the iMedia® Utility Program.

1.



To run the iMedia® Utility Program, double click the iMedia® Utility Program Shortcut on your PC or Laptop desktop.

2.



Windows Firewall may prompt you to "Allow Access". If it does so, tick the boxes for both 'Private Networks' and 'Public Networks' and then click 'Allow Access'.

3.



The iMedia® Utility Program will then start running and attempt to connect to the iMedia® SmartSender™.

**Important Note:** It can take up to several minutes for the iMedia® Utility Program and iMedia® SmartSender™ to sync. If after a few minutes they have still not synced, try disabling your Firewall. See Section '5.1.2 Network Discovery & Firewall Checking' on page 36 for more information.

*continued on next page . . .*

**Information**

Clicking this button will bring up the program information panel. Click the 'X' button to close it.

**Minimize**

Clicking this button will minimize the iMedia® Utility Program to the Windows Taskbar and System Tray.

**Close**

Clicking this button will close the iMedia® Utility Program.

**Play**

Clicking this button will start sending your PC or Laptop screen to your TV. This is known as 'PC Sender Mode'.

During 'PC Sender Mode', the 'Play' button will be replaced by a 'Stop' button. Clicking this 'Stop' button will stop the iMedia® Utility Program from sending your PC or Laptop screen to your TV.

*Note: After clicking the 'Play' button, the iMedia® Utility Program may automatically adjust your PC or Laptop desktop resolution to optimize performance. After clicking the 'Stop' Button or closing the iMedia® Utility Program your resolution will return to normal.*

**Advanced Options**

Clicking this button will bring up the 'Advanced Options Panel'.

On this panel you will find options for:

- Device Selection
- Configuration Settings
- Optimizing Playback
- Keep PC Audio
- Virtual Extend

Click this button again to close the 'Advanced Options Panel'.

Detailed information regarding the 'Advanced Options' is available on the next page.

### 2.3.2 Advanced Options

The iMedia® Utility Programs Advanced Options can be accessed by pressing the arrow button at the bottom of the program. Press 'Apply' to save any changes to these Advanced Options.

The image shows a screenshot of the DigiSender iMedia SmartSender application interface. At the top, there is a 'Play' button. Below it, a 'Device Name' field is set to 'SmartSender'. A 'Configuration Settings' icon is visible in the top right corner of the device selection area. The 'Optimized for' slider is set to 'PC'. Below the slider, there are checkboxes for 'Keep PC Audio' and 'Virtual Extend', both of which are checked. An 'Apply' button is located at the bottom right of the settings panel. Callout boxes provide detailed information for each of these elements.

**Device Selection**  
If you have more than one iMedia® SmartSender™ installed on your Network, then you can choose which device you wish to send your PC or Laptop screen to from this list.

**Configuration Settings**  
See next page for more information.

**Optimizing Playback**  
This slider allows you to optimize the iMedia® Utility Program for what you want to do.  
It is set to 'PC' by default and this is going to give you the best results for most uses other than video playback. This would include things such as music playback, office work, web surfing, etc.  
The 'Middle' setting should be used for video and movie playback.  
The 'Movie' setting can be used for slightly better playback at the cost of using more of your PC or Laptop system resources.

**Keep PC Audio**  
This option allows you play sound through both your TV and PC. By default this is not activated, so you will only get the audio through your TV.  
*Note: There may be some audio lag between the TV and PC if both 'Keep PC Audio' and 'Movie Optimized Playback' are selected.*

**Virtual Extend**  
This setting is enabled by default and should only be disabled if your PC or Laptop screen displays abnormally during 'PC Sender Mode' operation.

## 2.4 Configuration Settings

Double click the Cog Icon next to the Device Name in the Advanced Options panel. Your Web Browser will launch and open the Configuration Settings in a new tab.

### 2.4.1 Device Configuration Settings

Click the 'Device' Tab on the left of the Configuration Settings page.

The screenshot shows the configuration interface for DigiSender iMedia. On the left, there are navigation buttons for 'Device', 'Overscan', 'AP Mode', and 'STA Mode'. The 'Device' tab is selected. The main area contains the following settings:

- Device Name:** A text input field containing 'SmartSender' and a 'Set' button below it.
- Keyboard:** A dropdown menu showing 'United Kingdom' and a 'Set' button below it.
- Firmware Upgrade File:** A text input field and a 'Browse...' button.

Two callout boxes provide additional information:

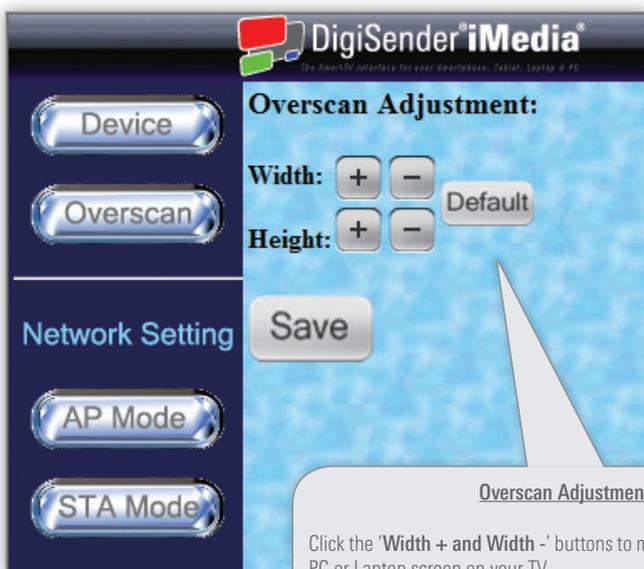
- Device Name:** This setting allows you to change the default name of the iMedia® SmartSender™. Click 'Set' to confirm the name change.
- Firmware Upgrade:** This setting allows you to upgrade the iMedia® SmartSender™ firmware. Click the 'Browse' button and navigate to the Firmware Upgrade file (.tgz). After selecting the Firmware Upgrade file, click the 'Start' button to begin the upgrade. Should you wish to cancel the Firmware Upgrade at any point, click the 'Abort' button. The Firmware Upgrades progress will be displayed on your TV.

**Important Notes:** Do not turn the iMedia® SmartSender™ off while performing the Firmware Upgrade. Only use Firmware Upgrade files that have been downloaded directly from [www.aei.eu](http://www.aei.eu). Never try to upgrade your Firmware using another models Firmware Upgrade files.

## 2.4.2 Overscan Configuration Settings

Click the '**Overscan**' Tab at the top of the Configuration Settings page.

When sending your PC or Laptop screen to your TV, if you notice that it is slightly misaligned, then this can be corrected using these settings.



### Overscan Adjustment

Click the '**Width + and Width -**' buttons to modify the width of your PC or Laptop screen on your TV.

Click the '**Height + and Height -**' buttons to modify the height of your PC or Laptop screen on your TV.

Click the '**Save**' button to confirm any adjustments you have made.

To reset the Width and Height back to their original settings, click the '**Default**' button.

### 2.4.3 Network Configuration Settings

The last two Configuration Settings Tabs relate to how you connect the iMedia® SmartSender™ to your Network. See Section '3.1 Network Connection' on page 19 for more information.

#### AP Mode Network Configuration Settings

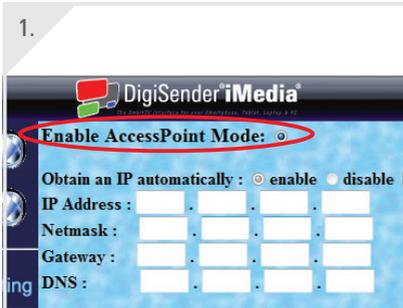
Click the 'AP Mode' Tab at the top of the Configuration Settings page.

The screenshot shows the 'Network Setting' page for DigiSender iMedia. The 'AP Mode' tab is selected. The page includes a sidebar with navigation buttons for 'Device', 'Overscan', 'AP Mode', and 'STA Mode'. The main content area is titled 'Enable AccessPoint Mode:' and contains the following settings:

- Enable AccessPoint Mode:**  enable  disable  auto
- Obtain an IP automatically:**  enable  disable  auto
- IP Address:** [ ] . [ ] . [ ] . [ ]
- Netmask:** [ ] . [ ] . [ ] . [ ]
- Gateway:** [ ] . [ ] . [ ] . [ ]
- DNS:** [ ] . [ ] . [ ] . [ ]
- DHCP Server:**  enable  disable
- DHCP IP start:** [ ] . [ ] . [ ] . [ ]
- DHCP IP end:** [ ] . [ ] . [ ] . [ ]
- SSID:** digisender\_imedia
- SSID broadcast:**  enable  disable
- Frequency:**  2.4 GHz  5 GHz
- Channel:** UNITED KINGDOM [v] Auto [v]
- Encryption Type:** Disable [v]
- Key:** [ ]

At the bottom of the form are 'Save' and 'Cancel' buttons.

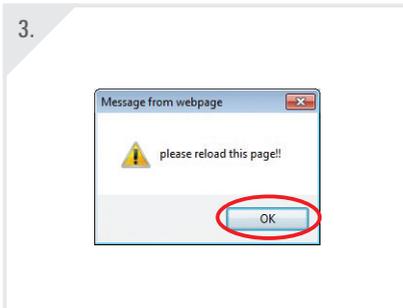
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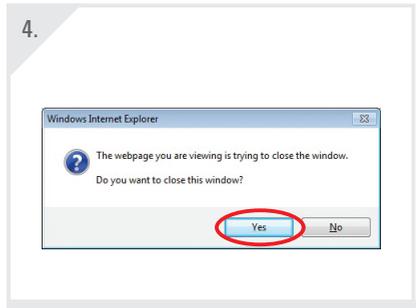
1. Tick the box next to 'Enable Access Point Mode' and then make any necessary changes to the 'Access Point Mode Configuration Settings'.



2. To Cancel any changes you have made to the 'Access Point Mode Configuration Settings' click the 'Cancel' button. Click the 'Save' button to save any changes.



3. After clicking the 'Save' button a small window will pop up prompting you to "Please reload this page!". Click the 'OK' button.



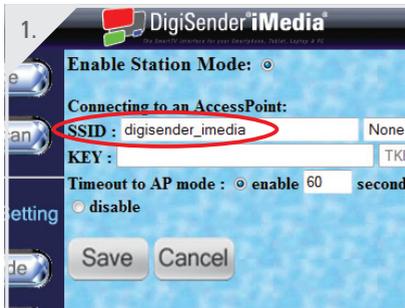
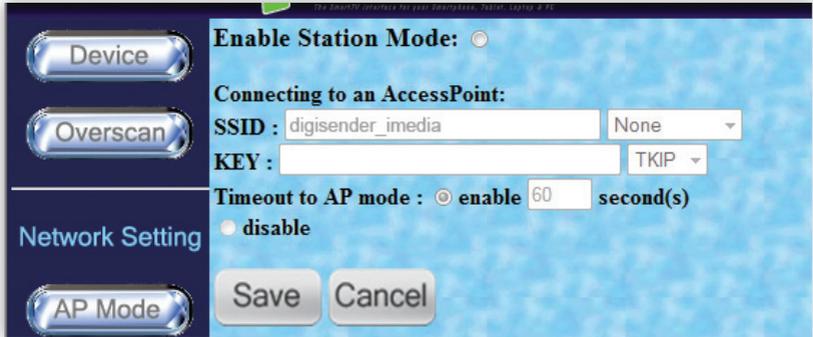
4. If another window pops up warning you that "The webpage you are viewing is trying to close the window. Do you want to close this window?" Click the 'Yes' button.

The iMedia® SmartSender™ will then apply the new Access Point Mode Configuration™ Settings and reboot itself automatically.

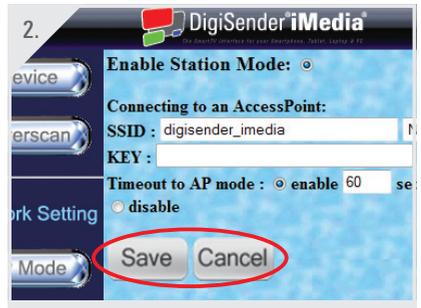
**Important Note:** If you are unfamiliar with these settings then it is advised that you leave them set to default. Incorrect changes to these settings could cause the iMedia® SmartSender™ to lose Network Connection. Should this occur, you will need to connect the iMedia® SmartSender™ to your Network via an Ethernet Cable (see Section '3.1.1 LAN Connection' on page 20 for more information) in order to reset the AP Mode Network Configuration Settings back to defaults via this page.

### STA Mode Network Configuration Settings

Click the 'STA Mode' Tab at the top of the Configuration Settings page.



1. Tick the box next to 'Enable Station Mode' and then enter the 'SSID' and 'WEP/WPA/WPA2 Key' for your router into the boxes below.

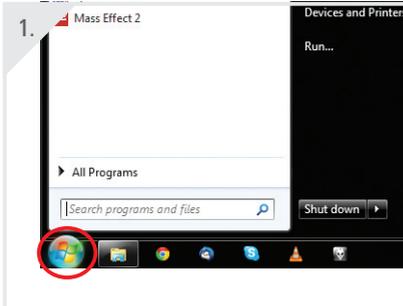


2. To Cancel any changes you have made to the 'Station Mode Network Configuration Settings' click the 'Cancel' button. Click the 'Save' button to save any changes.

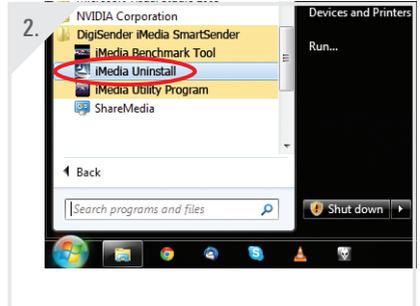
**Important Note:** Please consult your router documentation to find your routers SSID and WEP/WPA/WPA2 Key. Alternatively, search online for 'How to find your routers SSID and WEP Key'.

## 2.5 Uninstalling the iMedia® Utility Program

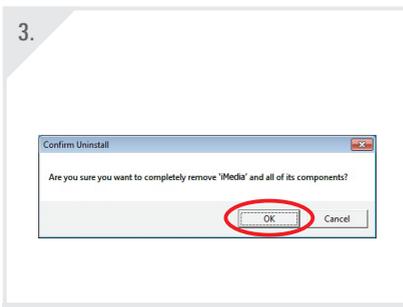
Should you wish to uninstall the iMedia® Utility Program from your PC or Laptop, then this can easily be achieved by following the steps below.



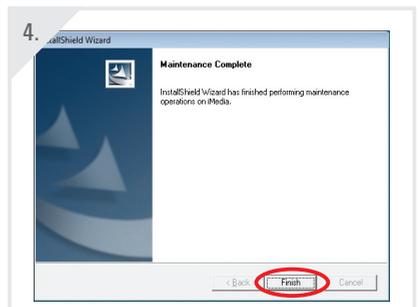
Click the 'Start' button in the bottom left corner of your PC or Laptop screen to bring up the 'Windows Start Menu'.



Click 'All Programs' and scroll down to the DigiSender iMedia SmartSender folder. Open this folder and click the 'iMedia® Uninstall' program.



A window will pop up asking "Are you sure you want to completely remove 'iMedia' Utility Program' and all of its components?" Click the 'OK' button.



Click the 'Finish' button and then restart your PC or Laptop.

## 3 Installing the iMedia® SmartSender™

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### 3.1 Network Connection

The first step in installing your iMedia® SmartSender™ is choosing how you want to connect it to your Network.

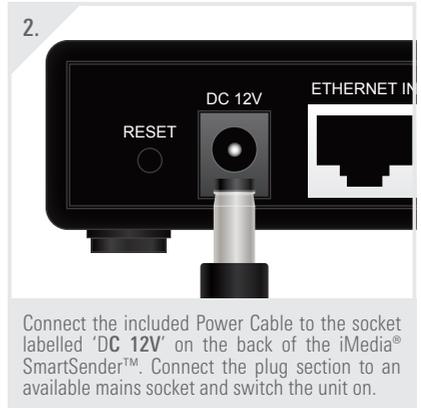
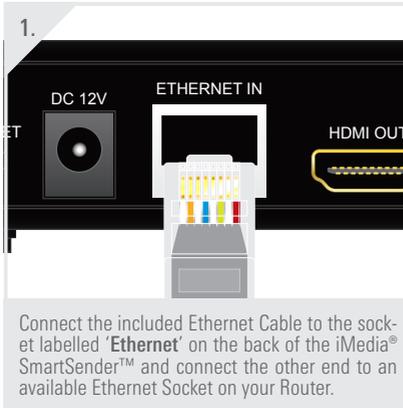
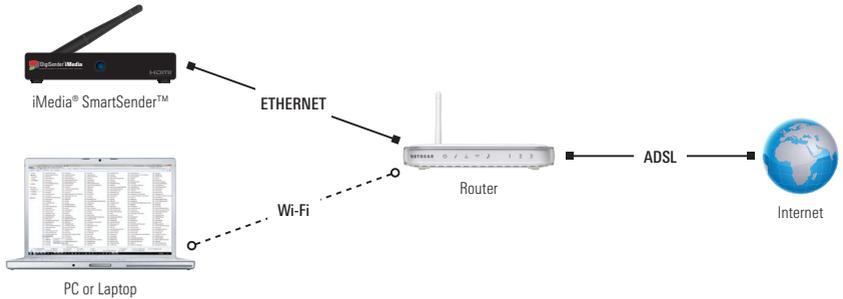
There are three main methods of connecting the device to your Network and they are detailed in the following sections:

- 3.1.1 LAN Connection
- 3.1.2 Station Mode Connection
- 3.1.3 Access Point Mode Connection

The following pages will detail how to connect the iMedia® SmartSender™ to your Network using each of these methods.

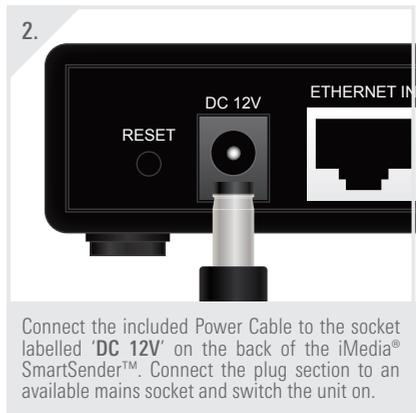
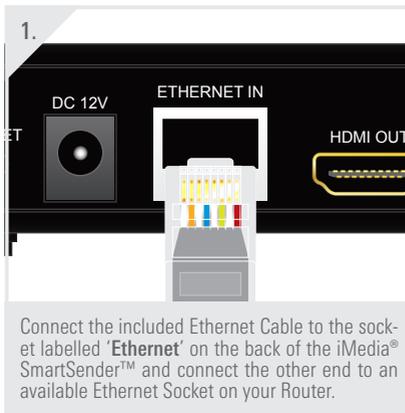
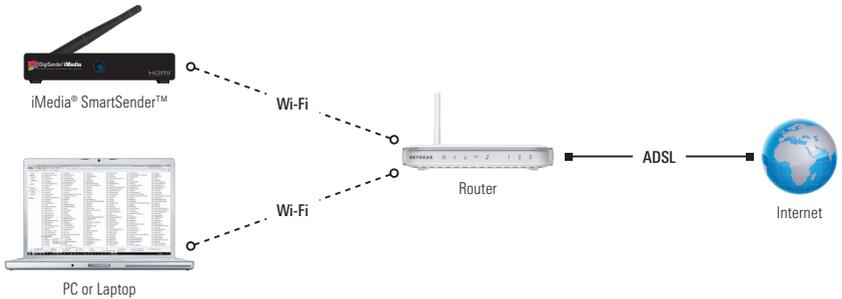
### 3.1.1 LAN Connection

This method of connection simply involves connecting the iMedia® SmartSender™ to your router with an Ethernet Cable and is the first step in configuring other wireless connections.



### 3.1.2 Station Mode Connection

This is the most popular method of connecting the iMedia® SmartSender™ to your Network as it uses a completely wireless connection method that leaves your internet access intact, unlike the method described in the next section '3.1.3 Access Point Mode Connection'.



*continued on next page . . .*

**Important Note:** The iMedia® SmartSender™ must first be connected to your router with the included Ethernet Cable so that certain network configurations can be made. Afterwards, the Ethernet Cable can be disconnected and removed.

3.



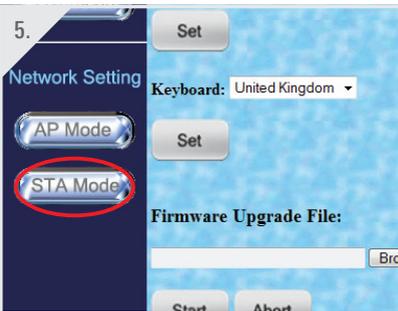
Run the iMedia® Utility Program by double clicking the iMedia® Shortcut on your PC or Laptop desktop.

4.



After a few seconds, click the arrow at the bottom of the program to open the 'Advanced Options Panel' and then double click the Gear Icon on the right to enter the 'Configuration Settings' page.

5.



Click the 'STA Mode' tab.

6.



Tick the box next to 'Enable Station Mode' and enter your routers SSID and WEP/WPA/WPA2 Key. Click the 'Save' button.

**Important Note:** Please consult your router documentation to find your routers SSID and WEP/WPA/WPA2 Key. Alternatively, search online for 'How to find your routers SSID and WEP Key'.

### 3.1.3 Access Point Mode Connection

This is a direct Wi-Fi connection between the iMedia® SmartSender™ and your PC or Laptop. Because it uses your computers Wi-Fi connection directly, you will not be able to connect to your wireless router and so you will not be able to connect to the internet. Its uses are therefore limited to situations where an internet connection is not needed, for example, office presentations. This also limits the use of the iMedia® SmartSender™ to '**PC Sender Mode**' only.

***Note:** If your PC or Laptop is connected to your router with an Ethernet Cable or it has two Wi-Fi cards/dongles installed, then you will still be able to access the internet on your computer.*



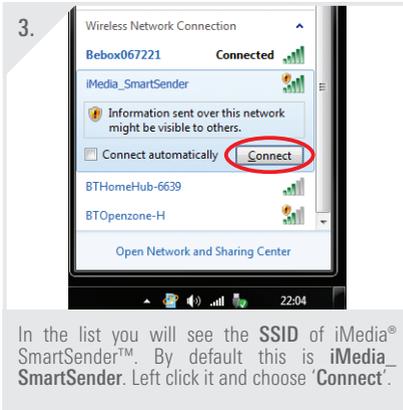
1.

Connect the included Power Cable to the socket labelled '12V DC' on the back of the iMedia® SmartSender™. Connect the plug section to an available mains socket and switch the unit on.

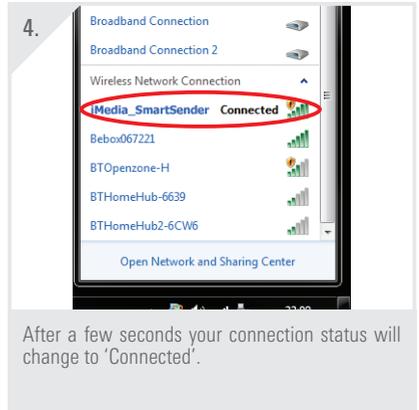
2.

In the bottom right corner of your PC or Laptop screen, you will see a small Network Icon. Left click this Network Icon to bring up a list of all the Wi-Fi devices in your immediate area.

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In the list you will see the SSID of iMedia® SmartSender™. By default this is iMedia\_SmartSender. Left click it and choose 'Connect'.



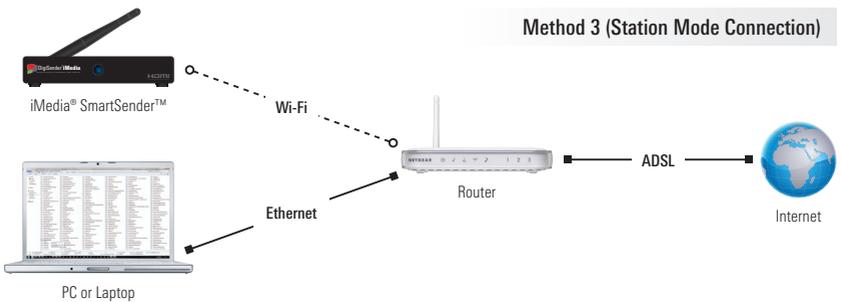
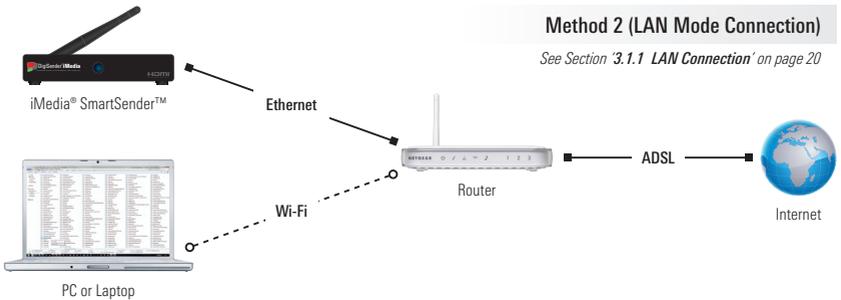
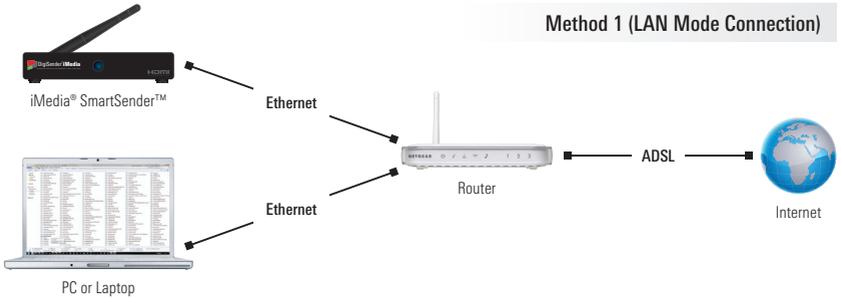
After a few seconds your connection status will change to 'Connected'.

**Note:** You may be required to enter a **WEP/WPA/WPA2 Key** depending on the current iMedia® Utility Program Settings, but by default, this is left blank.

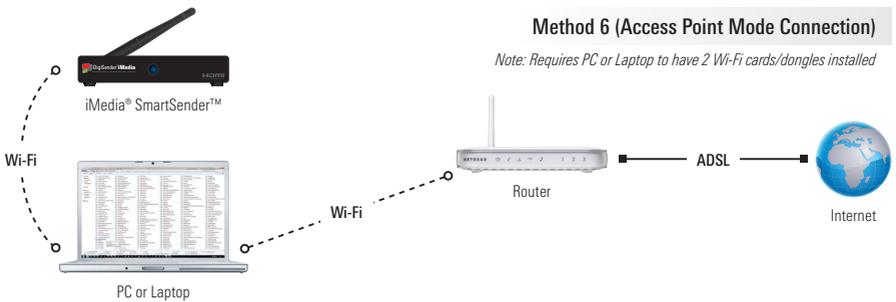
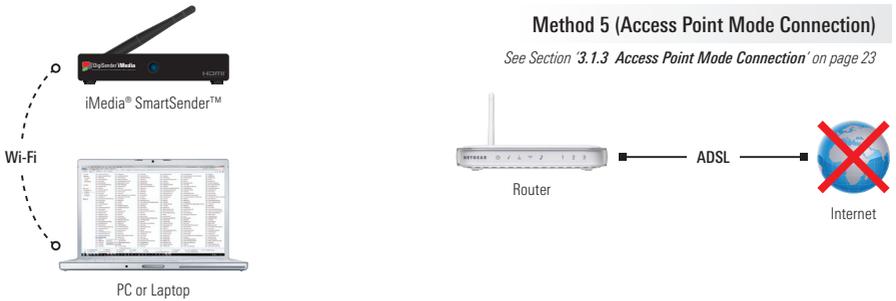
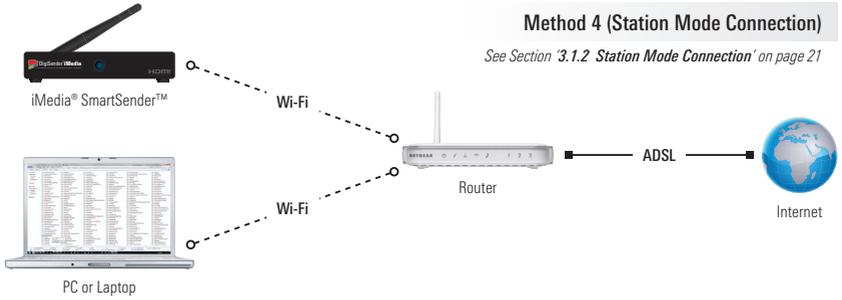
**Important Note:** If you cannot see the iMedia® SmartSender™ in the list of available Wi-Fi devices then it may be that it is set to **'Station Mode'** in the iMedia® Utility Program **Configuration Settings**. Connect the iMedia® SmartSender™ to your router with the included Ethernet Cable. Go to the **'AP Mode Network Configuration Settings'** Tab (see Section **'2.4.3 Network Configuration Settings'** on page 15 for more information) and check the box next to **'Enable Access Point Mode'**.

### 3.1.4 Supported Network Connections

Listed below are all supported Network Connection types and variations.

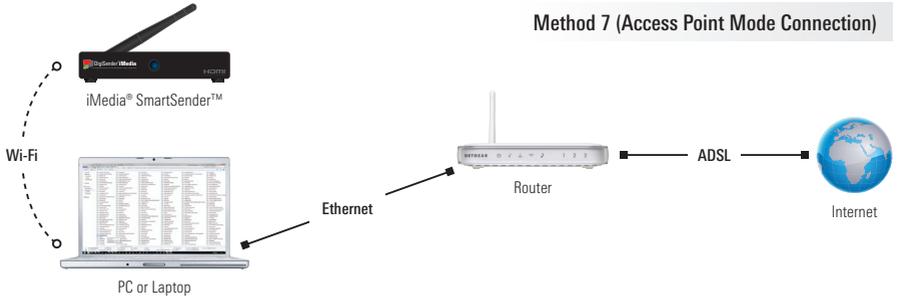


*continued on next page . . .*

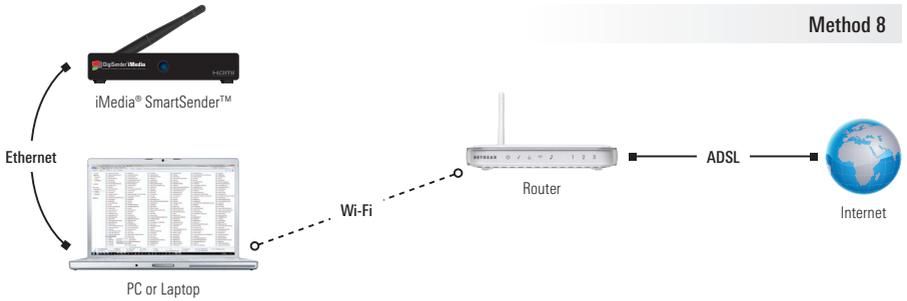


continued on next page . . .

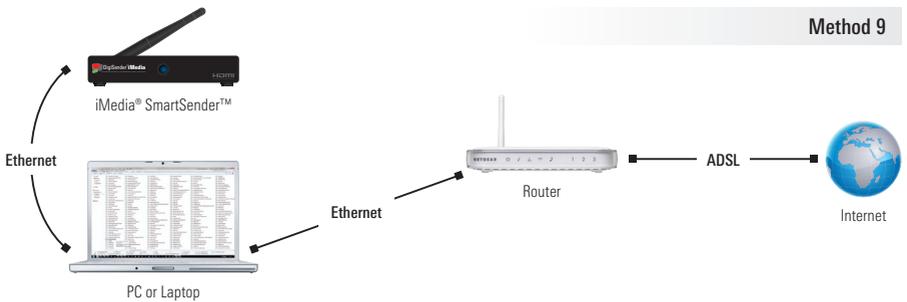
Method 7 (Access Point Mode Connection)



Method 8

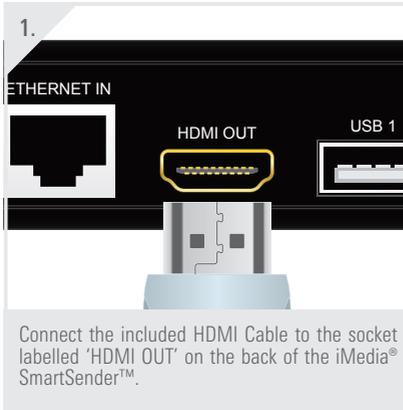


Method 9



### 3.2 Connecting to your TV

Once you have connected the iMedia® SmartSender™ to your Network it is now time to connect it to your TV.



## 4 Using the iMedia® SmartSender™

### 4.1 PC Sender Mode

'PC Sender Mode' allows you to send your PC or Laptop screen to your TV. Whatever you see on your computer screen you will also see on your TV.

The diagram below shows a typical 'PC Sender Mode' setup.



To use the iMedia® SmartSender™ in 'PC Sender Mode', simply launch the iMedia® Utility Program and press the 'Play' button. See Section '2.3.1 Basic Usage' on page 10 for more information.

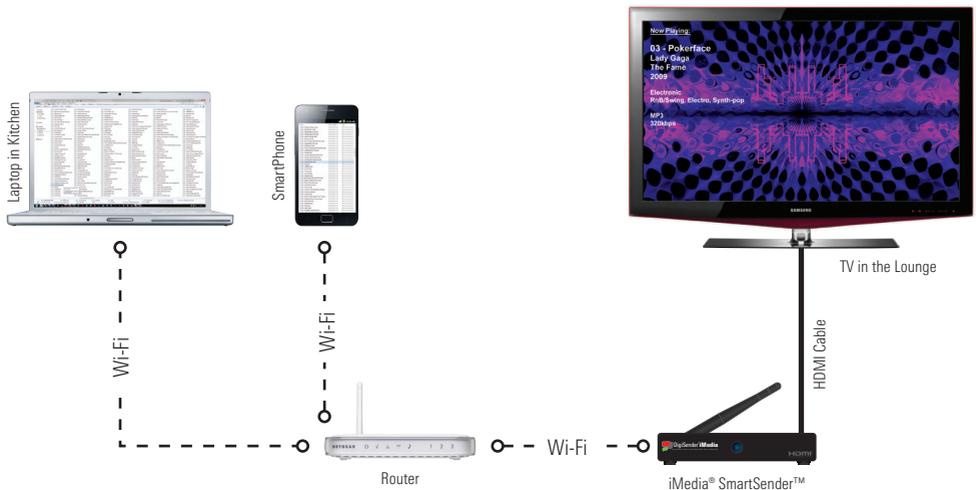
## 4.2 Media Streaming Mode

The iMedia® SmartSender™ also features a '**Media Streaming Mode**'. In this mode, the iMedia® SmartSender™ acts as a '**Digital Media Renderer**' (DMR) and will allow you to play any media, stored on '**Digital Media Server**' (DMS) devices that are connected to your Network, through your TV.

To put it simply, the iMedia® SmartSender™ will allow you to:

- Play videos downloaded to your Laptop through your TV.
- Play music stored on your SmartPhone through your TV.
- View photos stored on your Tablet through your TV.

The diagram below shows a typical '**Media Streaming Mode**' setup.



#### **4.2.1 Hardware Recommendations**

For best results it is recommended that the device you are streaming media from has the following minimum specifications:

##### **PC or Laptop**

CPU: 1.6GHz or better  
Memory: 1GB or more  
Network: 802.11 g/n Wi-Fi and/or 100/1000 Mbps Ethernet

##### **SmartPhone**

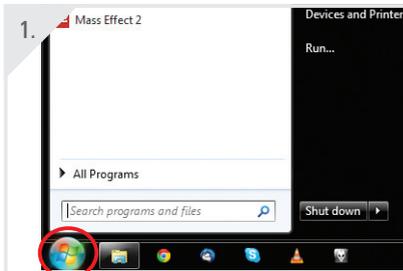
CPU: 800MHz or better  
Memory: 256MB or more  
Network: 802.11 g/n Wi-Fi

##### **Tablet**

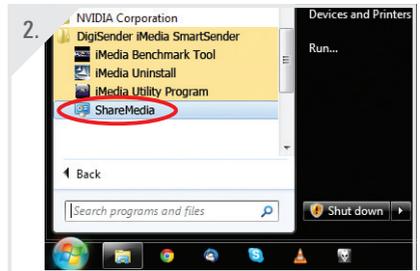
CPU: 600MHz or better  
Memory: 256MB or more  
Network: 802.11 g/n Wi-Fi

## 4.2.2 Streaming Media from a PC or Laptop

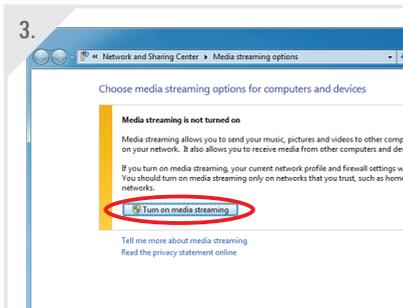
If you are running Windows 7 on your PC or Laptop, you must first turn on 'Media Streaming' before you can stream any media to your TV via the iMedia® SmartSender™.



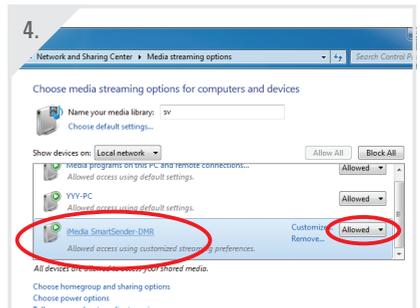
Click the 'Start' button in the bottom left corner of your PC or Laptop screen to bring up the 'Windows Start Menu'.



Click 'All Programs' and scroll down to the DigiSender iMedia SmartSender Folder. Open this folder and click the 'ShareMedia' program.



A window will pop up saying "Media Streaming is not turned on". Click the 'Turn on media streaming' button.

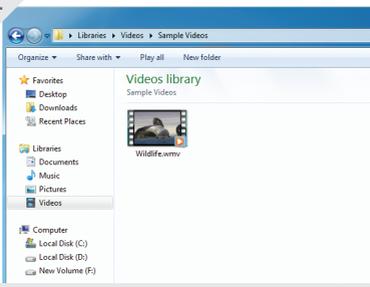


In the next window select the iMedia® SmartSender™ from the list and make sure that the box next to it is says "Allowed". Click the 'OK' button.

*continued on next page . . .*

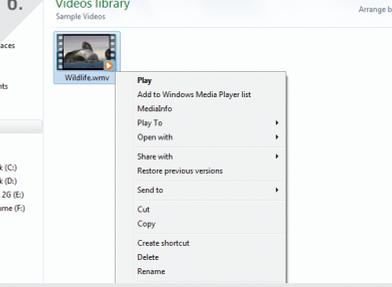
Now that **'Media Streaming'** has been turned on, follow the steps below to start streaming media from your PC or Laptop to your TV.

5.



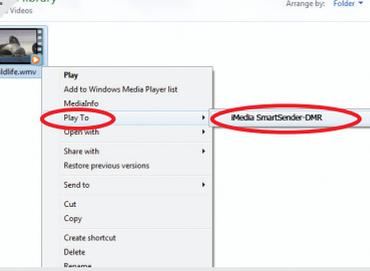
On your PC or Laptop, navigate to where the media file you wish to stream is stored.

6.



Select the media file and right click it to bring up a list of commands.

7.



You will see a command named "Play To". Hover over this command with the mouse cursor to bring up a list of all the devices that you can currently stream the media file to.

8.

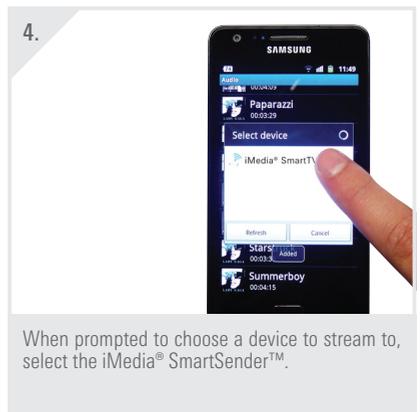
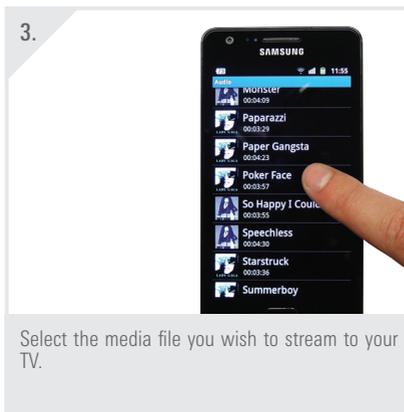
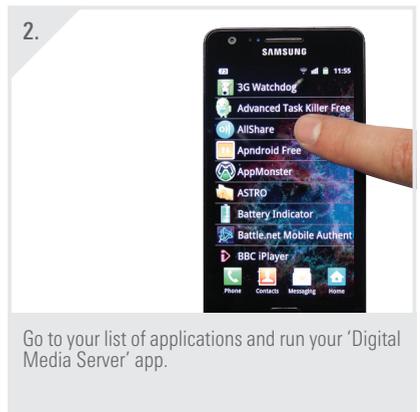


Click on iMedia® SmartSender™-DMR to start streaming the media file to your TV.

Your media file will then start playing through your TV.

### 4.2.3 Streaming Media from a SmartPhone or Tablet

In the example below we are streaming media from a Samsung Galaxy SII SmartPhone using a pre-installed 'Digital Media Server' app called 'AllShare'. Streaming media on other Smart-Phones and 'Digital Media Server' apps may differ, so please consult your phone and/or app documentation.



Your media file will then start playing through your TV.

## 5 Troubleshooting

### 5.1 Troubleshooting the iMedia® Utility Program

#### 5.1.1 Windows Vista /7 User Account Control

When running the iMedia® Utility Program it is possible that it might not sync with the iMedia® SmartSender™ correctly, even if the iMedia® SmartSender™ has been correctly connected to the Network. This could be caused by '**User Account Control**' issues associated with Windows Vista and Windows 7.

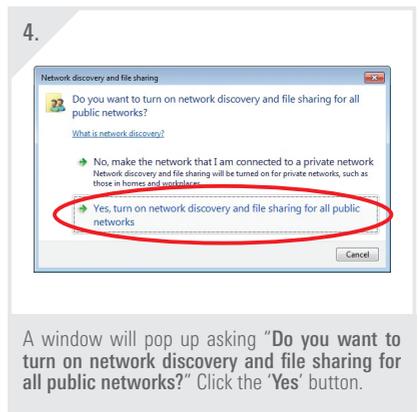
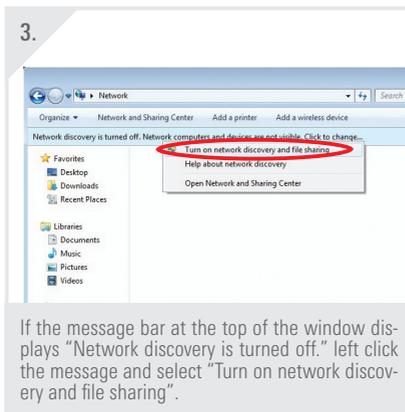


The iMedia® Utility Program will then start and should sync with the iMedia® SmartSender™ correctly.

## 5.1.2 Network Discovery & Firewall Checking

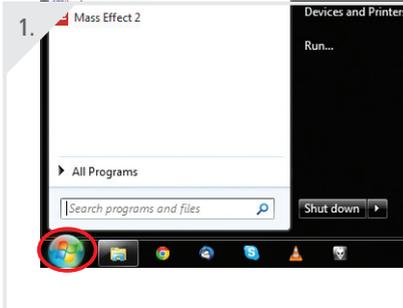
If the iMedia® Utility Program still won't sync with the iMedia® SmartSender™ then this could be caused by two things.

The first thing to check is that 'Network Discovery' is turned on.



*continued on next page . . .*

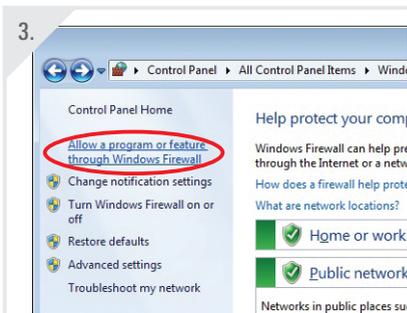
The second thing to check is that 'Windows Firewall' is not blocking the iMedia® Utility Program.



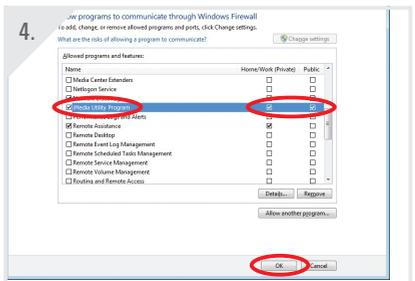
1. Click the 'Start' button in the bottom left corner of your PC or Laptop screen to bring up the 'Windows Start Menu'.



2. Click 'Control Panel' and select 'Windows Firewall'.



3. At the top of the left hand panel, click "Allow a program or feature through Windows Firewall".



4. Scroll down the list in the next window until you find the iMedia® Utility Program. Check that both the 'Private' and 'Public' tick boxes are ticked and then click the 'OK' button.

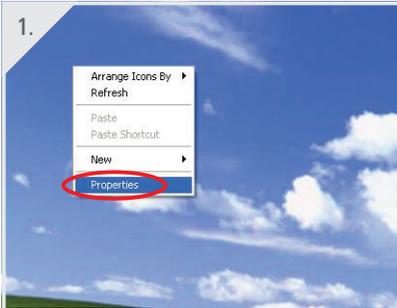
## 5.2 Troubleshooting PC Sender Mode

### 5.2.1 Video Playback in Windows XP

When using the iMedia® SmartSender™ in 'PC Sender Mode' on a Windows XP computer, you may come across an issue where you can hear the correct sound coming out of your TV, but the video does not display.

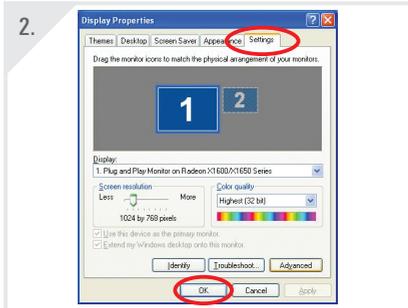
If this is the case, follow the steps below.

1.



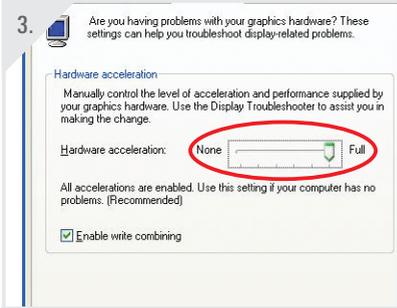
Right click on your PC or Laptop desktop and select 'Properties'.

2.



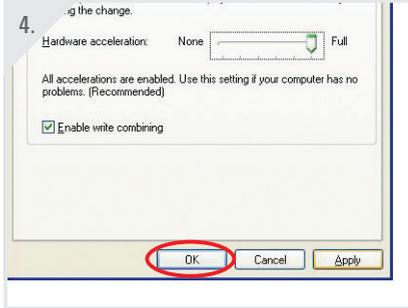
Click the 'Settings' tab and then click on the 'Advanced' button.

3.



Click the 'Troubleshoot' tab and move the 'Hardware acceleration' slider to 'Full'.

4.



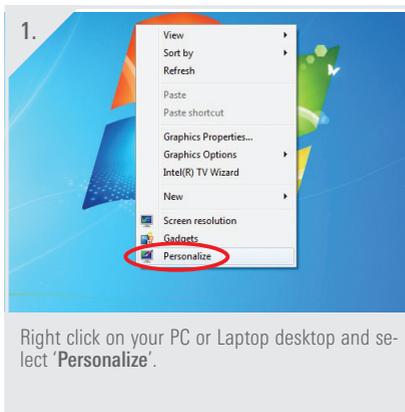
Click the 'OK' button and then restart your Media Player and video.

## 5.2.2 Laggy Picture / Poor Frame Rate

A laggy picture or poor frame rate could be caused by several things.

The first thing you can do to try and improve the frame rate is to change the Windows Desktop Theme in Windows Vista and Windows 7.

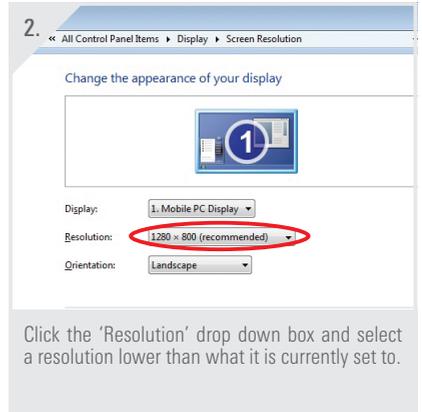
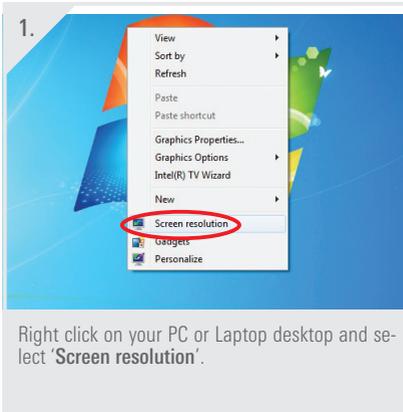
If your PC or Laptop is at the lower end of the recommended hardware specifications then you may notice an improvement in frame rate and a reduction in picture laggy by using the 'Windows Classic' theme.



The next thing you can do to try and improve the frame rate is to change the resolution your computer is running at.

Again, if your PC or Laptop is at the lower end of the recommended hardware specifications then you may notice a significant improvement in frame rate and a reduction in picture laggy by decreasing your desktop resolution.

*continued on next page . . .*



Other things you can try to improve the frame rate include:

### **Close any Unnecessary Programs**

Shutting down any unnecessary programs and background processes can reduce the amount of CPU strain on your computer and improve performance.

### **Change the Network Connection to LAN**

Connecting the iMedia® SmartSender™ to your Network via an Ethernet cable will tell you if there is a performance bottleneck over Wi-Fi. This would normally be caused by having a Wi-Fi 'Link Speed' lower than 36 Mbps.

## 5.3 Troubleshooting Media Streaming Mode

### 5.3.1 Windows 7 'Play To' Command

If when trying to stream a media file from your Windows 7 computer to your TV using the iMedia® SmartSender™, no option to 'Play To' is available, then this may be due to several reasons.

- The file format may is not supported by the iMedia® SmartSender™.  
*See Section '6.2 Supported File Formats' on page 45 for more information.*
- 'Media Streaming' has not been turned on.  
*See Section '4.2.2 Streaming Media from a PC or Laptop' on page 32 for more information.*
- Required DLNA services and protocols are being blocked by Windows Firewall.  
*See Section '5.1.2 Network Discovery & Firewall Checking' on page 36 for more information.*

### 5.3.2 No Audio and/or Video from the TV after selecting 'Play To'

If you are not getting any sound or picture through when trying to stream media to your TV, please check the following.

- The file format is not supported by the iMedia® SmartSender™.  
*See Section '6.2 Supported File Formats' on page 45 for more information.*
- If connecting the iMedia® SmartSender™ to your network via Wi-Fi (Station Mode Connection or Access Point Mode Connection), you might not have enough bandwidth to stream correctly. Try connecting via Ethernet Cable instead (LAN Connection).  
*See Section '3.1.1 LAN Connection' on page 20 for more information.*

### 5.3.3 Laggy Playback / Stuttery Audio / Poor Frame Rate

These symptoms could be caused by the following.

- The file may not be fully supported by the iMedia® SmartSender™.  
*See Section '6.2 Supported File Formats' on page 45 for more information.*
- If connecting the iMedia® SmartSender™ to your network via Wi-Fi (Station Mode Connection or Access Point Mode Connection), you might not have enough bandwidth to stream correctly. Try connecting via Ethernet Cable instead (LAN Connection).  
*See Section '3.1.1 LAN Connection' on page 20 for more information.*

## 5.4 Frequently Asked Questions

**Q How can I find out the SSID and WEP/WPA/WPA2 Key for my Router?**

A If you are running Windows 7 and your PC is already connected to your router via Wi-Fi then you can click the little Network Icon in the bottom right hand corner of your screen to bring up the list of Wi-Fi devices in the area. The device that says 'Connected' is your router and the SSID is simply the name of it. The WEP/WPA/WPA2 Key is the password you set for the router when you first installed it.

**Q What is a Digital Media Server?**

A A Digital Media Server is a program or device that sends media files to another program or device for playback, i.e. A Digital Media Renderer.

**Q What is a Digital Media Renderer?**

A A Digital Media Renderer is a program or device that plays media files that have been sent to it by a Digital Media Server. The iMedia® SmartSender™ acts as a Digital Media Renderer in 'Media Streaming Mode'.

**Q Where can I get a Digital Media Server app for my SmartPhone?**

A Most modern SmartPhones come pre-installed with a Digital Media Server app, but if your particular phone doesn't have one, search Android Market or the Apple App Store for "Digital Media Server".

**Q Do I need a Digital Media Server for my PC or Laptop?**

A Yes you will need a Digital Media Server for your PC or Laptop, however Windows Media Player 12 (bundled with Windows 7) provides this function.

**Q Why isn't the iMedia® Utility Program connecting to the SmartSender?**

A Close the iMedia® Utility Program and reset the SmartSender by holding the Reset button on the back of the unit for 15 seconds. Wait a minute or two for the SmartSender to fully boot up and then run the iMedia® Utility Program again.

## 5.5 Technical Support

AEI Security & Communications Ltd is dedicated to providing our customers with first class customer care and technical support.

**1. Website**

Free technical advice is available online 24/7 at our dedicated support web site: ***www.aei.eu***

**2. Online Videos**

Watch online Installation and Troubleshooting Video Guides. Search ***www.youtube.com*** for DigiSender.

**3. Live Chat**

Chat to one of our technical advisors live. See website for details.

**4. Telephone**

We have a dedicated helpline, open Monday to Friday, 8.30am - 4pm. ***Call 02071 931 413.***

## 6 Specifications

### 6.1 Display Resolutions

In **'PC Sender Mode'** the iMedia® SmartSender™ is capable of Full HD 1080p (1920 x 1080) output via HDMI, under certain conditions.

- The PC or Laptop must be running the Windows 7 Operating System.
- The PC or Laptop must have an Intel Core i3, i5 or i7 series CPU.
- The PC or Laptop must have a suitable Intel on-board Graphics processor. AMD/ATI or NVIDIA Graphics Cards will not support 1080p output to the iMedia® SmartSender™.

If any of the above conditions are not met then the iMedia® SmartSender™ will output a resolution of up to 1440 x 900 (Widescreen) or 1280 x 1024 (4:3) instead.

In **'Media Streaming Mode'** the iMedia® SmartSender™ will always output at your TVs maximum supported resolution (up to 1080p).

The table shows what resolution the iMedia® Interface will output with different PC and TV resolutions.

Your PC or Laptop Desktop Resolution	Your TVs Maximum Supported Resolution							
	1024 x 768	1280 x 800	1280 x 1024	1366 x 768	1440 x 900	1600 x 1200	1680 x 1050	1920 x 1080
800 x 600	800 x 600	800 x 600	800 x 600	800 x 600	800 x 600	800 x 600	800 x 600	800 x 600
1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768
1280 x 720	1024 x 768	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720
1280 x 768	1024 x 768	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 768
1280 x 800	1024 x 768	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 800
1280 x 1024	1024 x 768	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720
1366 x 768	1024 x 768	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720
1440 x 900	1024 x 768	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720
1600 x 1200	1024 x 768	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720
1680 x 1050	1024 x 768	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720
1920 x 1080 (or more)	1024 x 768	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1920 x 1080

## 6.2 Supported File Formats

The iMedia® SmartSender™ will support the following file formats:

### **6.2.1 Supported Video Formats**

.avi, .wmv, .mov, .mp4, .mp4v, .mpeg4, .m4v, .mpe, .mpeg, .mpg, .m2t, .tts, .3gp, .3gpp, .3g2, .3gpp2, .dvr, .dvr-ms

### **6.2.2 Supported Audio Formats**

.mp3, .mp4, .wma, .wav, .aac, .ogg, .oga, .ogv, .pcm

### **6.2.2 Supported Picture Formats**

.jpg, .jpeg, .png, .gif, .bmp

## 6.3 iMedia® SmartSender™ Specifications

### 6.3.1 Hardware Specifications

Wi-Fi Frequency:	2.4 GHz ISM (2.412 GHz - 2.484 GHz)
Wi-Fi Modulation:	802.11g/n: OFDM, 802.11b: CCK (11, 5.5 Mbps), QPSK (2 Mbps), BPSK (1 Mbps)
Wi-Fi Output Power:	802.11b: 16 dBm +/- 1.5 dBm (11 Mbps) 802.11g: 14 dBm +/- 1.5 dBm (54 Mbps) 802.11n: 13 dBm +/- 1.5 dBm (HT20 MCS7) 11 dBm +/- 1.5 dBm (HT40 MCS7)
Wi-Fi Sensitivity:	802.11b: 11 Mbps -76 dBm 802.11g: 54 Mbps -67 dBm 802.11n: HT20 MCS7 -64 dBm HT40 MCS7 -61 dBm
Video Output:	1080p max. @ 30 fps
Audio Output:	HDMI Dual-Channel Digital (Stereo) 3.5mm Stereo Audio Jack
Connectivity:	1x HDMI v1.3 1x 3.5mm Stereo Audio Jack 2x USB 2.0 1x Ethernet (RJ45)
Antenna:	External Omni-Directional
Dimensions:	L: 90mm, W: 140mm, H: 25mm
Power Supply:	12V DC, 1.0A (max.)

### 6.3.2 System Requirements

Operating System:	Windows XP x86/x64, Vista x86/x64 or 7 x86/x64
Network Connection:	802.11 b/g/n Wi-Fi or 10/100 Mbps Ethernet
Disc Drive:	CD-ROM drive (for Software installation)
Display Device:	HDMI compatible display device (TV, Monitor, Projector)
Processor:	2.0GHz Intel Core2Duo or better
RAM:	2GB DDR2-800MHz or better
Integrated Chipset: or Graphics Card:	Intel GMA X3100 or better NVIDIA GeForce 8400 or better, ATI Radeon X300 or better

We,

**AEI Security & Communications Ltd.**

*Westlake Industrial Park, Harbour Road, Rye, East Sussex, TN31 7TE, United Kingdom*

declare under our sole responsibility that the products bearing the series code prefixed:

**DGx, DVx, DXx** (*x refers to the specific model number*)

are in conformity with the essential requirements of Directive 1995/5/EC. These products have been tested against the following standards and specifications:

**Low Voltage Directive**

EN60950:2000

*Safety of information technology equipment.*

**Electromagnetic Compatibility Directive**

EN 301 489-3 V1.3.1: 11-2001

*Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 KHz and 40 GHz.*

EN 301 489-1 V1.3.1: 09-2001

*Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.*

**Radio Spectrum**

EN 300 440-1 V1.3.1: 09-2001

*Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods.*

**Power Supply**

EN55022: 2003

*Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement.*

EN55024: 2003

*Information technology equipment. Immunity characteristics. Limits and methods of measurement.*

IEC 61000-3-2: 2001

*Electromagnetic Compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq$  16 A per phase).*

IEC 61000-3-3: 2001

*Electromagnetic Compatibility (EMC) - Part 3-3: Limits - Limitations of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, equipment with rated current  $\leq$  16 A per phase and not subject to conditional connection.*

The product is marked with the CE marking and Notified Body Number according to directive 1999/5/EC.



*Original Document of Conformity has been signed.*

**AEI Security & Communications Ltd**

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