

# Panasonic Self Help Guides

DLNA

**VIERA**

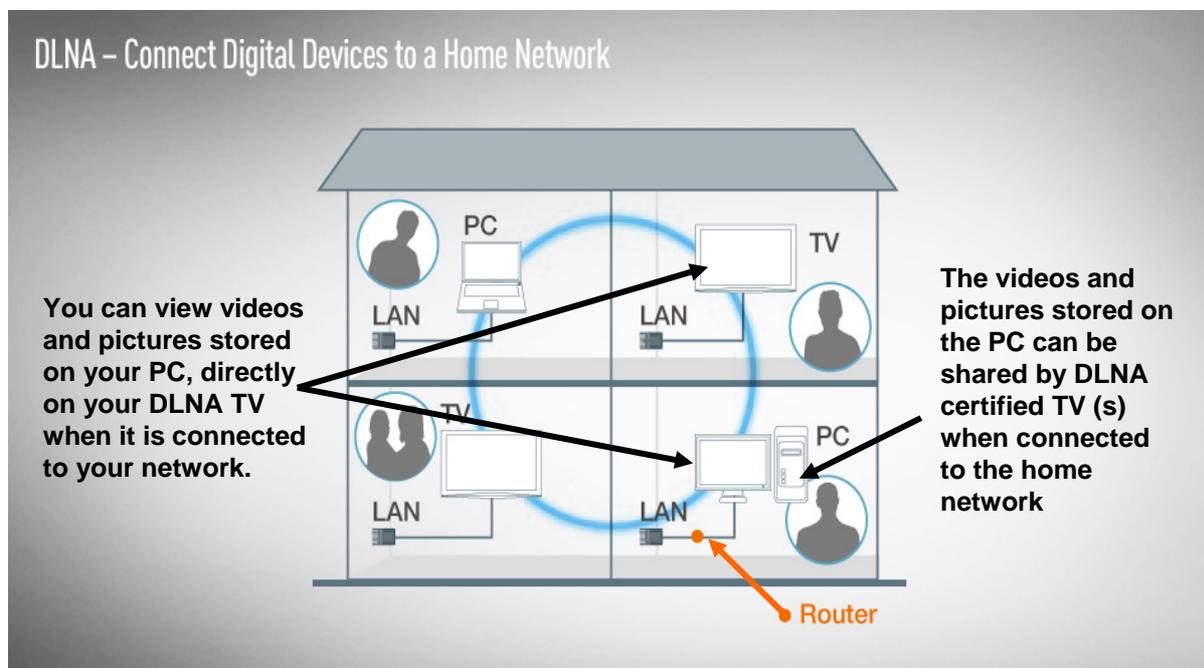


# What is DLNA?

DLNA stands for Digital Living Network Alliance. Many companies are involved in agreeing compatibility guidelines so that equipment that is certified with the DLNA logo complies with the specifications and will work together.

DLNA certified products can be connected to the same home network allowing the media files stored on one device (the server) to be shared to other devices on the same network.

For more information about DLNA please visit [www.dlna.org](http://www.dlna.org)



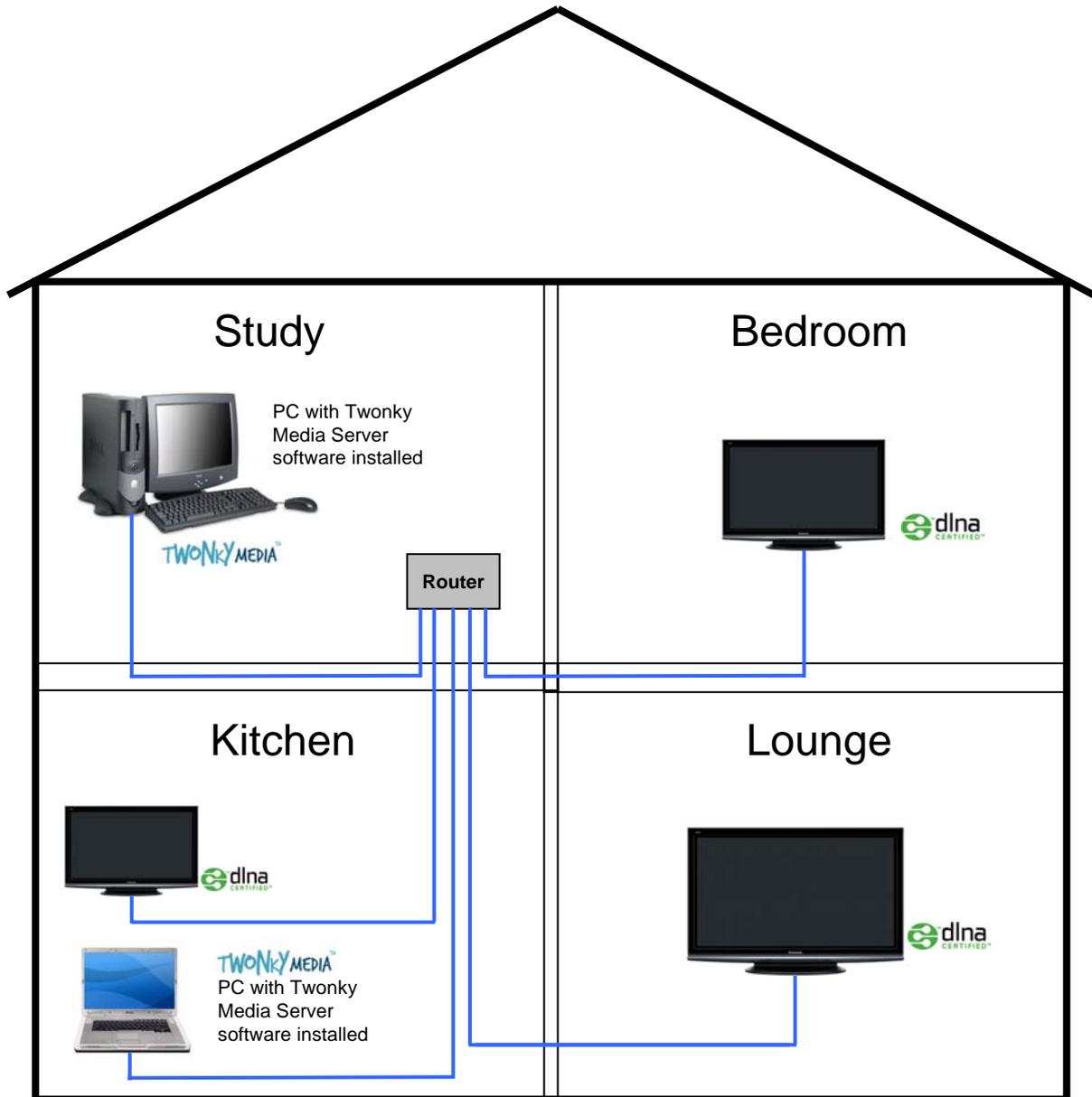
Of the 2009 Panasonic Viera TV range, the G15 series, the V10 series and the Z1 series are DLNA Certified. This means that one or more of these models can be connected to a home network to play videos and JPG still pictures from a PC.

Panasonic provide an installation key (on a leaflet in the box) to allow software to be downloaded and installed on up to 3 home computers. The software, provided by a company called “Twonky” is media server software which allows file sharing from videos and still pictures stored on that computer.

“Twonky server” has been selected as it is also DNLA certified. Other media sharing software may also work but have not been DLNA certified at this time. Other Software not supplied or supported by Panasonic.



# Home Network Concept



— Ethernet cables are used to connect the devices to the home network

The Panasonic DLNA TVs on the network are able to play videos and Pictures stored on the computers via the Twonky Server software



# Connecting a DLNA equipped TV (Basic)

Connecting a DLNA TV to a network is simple. An Ethernet cable can be used to connect the Ethernet socket on the rear of the TV to an unused Ethernet port (LAN Port) on a home broadband router. Ethernet cables are inexpensive and can be purchased from most PC retailers. This is the cheapest and simplest method of connection.

## Preparation:

You will need a working Broadband connection with a router

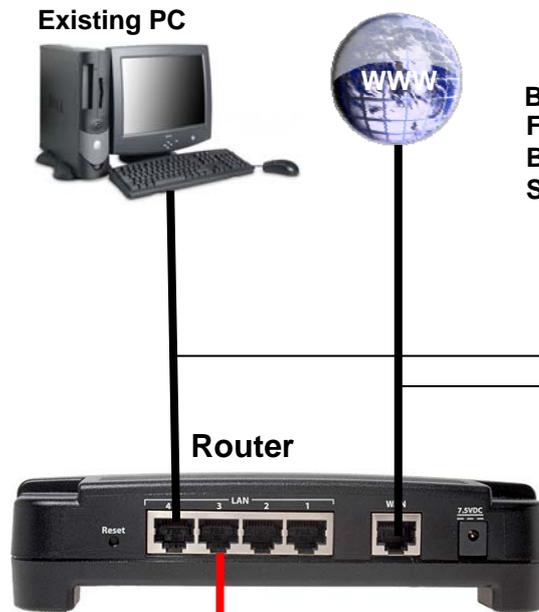
Existing PC



Broadband Connection (ISP)  
For example:  
BT Internet, Virgin,  
Sky etc.

## Step 1

Connect one end of the Ethernet cable to a spare Ethernet socket on the broadband router. These are often marked "LAN" on the router



Existing Ethernet Cables

Router

Ethernet Cable

## Step 2

Connect the other end of an Ethernet cable to the Ethernet socket on the rear of the VieraCast TV.



Rear of TV



As Shown above, connection of a DLNA TV to your network is usually a very simple process. Once connected, there are usually no settings to change on the TV. If there are any problems, refer to the trouble shooting guide as it may be necessary to make some changes to the broadband router settings.

# Connecting DLNA Equipment (Home Plug)

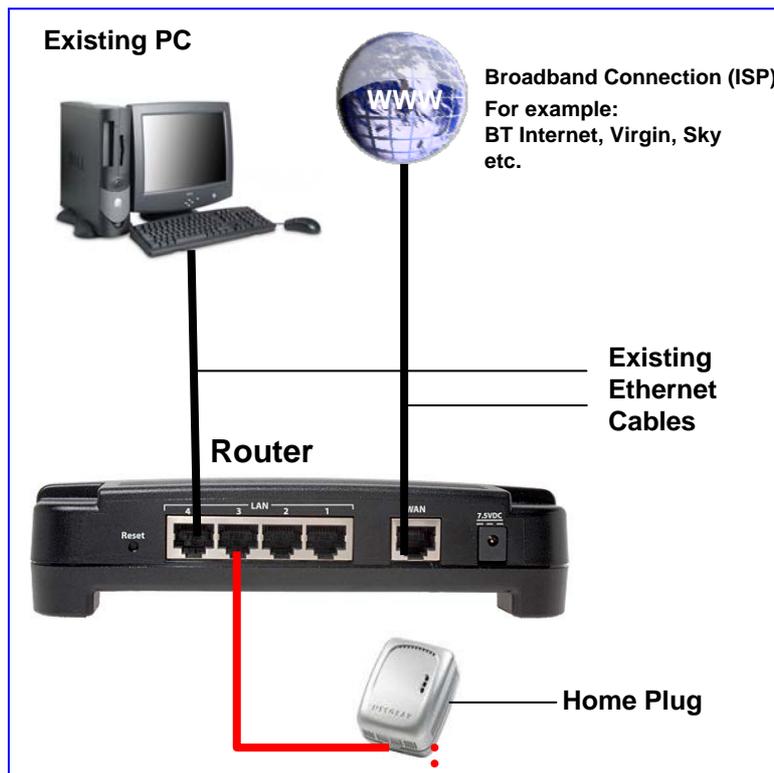
It is possible to use Home Plug or other similar networking device to connect the TV to Network. This can be particularly useful when the TV is in a different room to the Broadband router. The pair of home plugs simply act as an Ethernet cable

## Preparation:

You will need a working Broadband connection with a router. You will also need a pair of Home Plug devices

## Step 1

Connect one end of an Ethernet cable to a spare Ethernet socket on the broadband router. Connect the other end to the Home Plug Device and plug it in to a mains socket

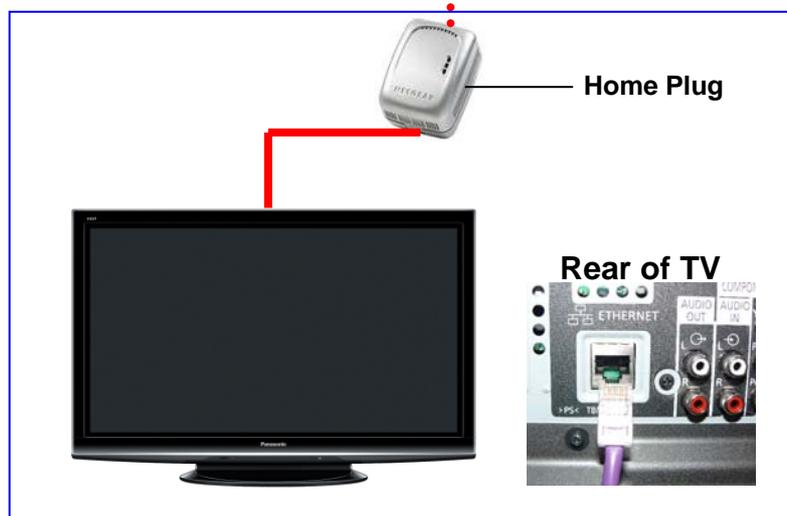


Study

Broadband signals are carried from room to room through the existing mains wiring of your home, by the **Home Plug** devices.

## Step 2

Connect one end of an Ethernet cable to the second Home Plug and plug it into the mains socket. Connect the other end of the Ethernet cable into the Ethernet socket on the rear of the TV



Lounge

# Connecting a DLNA TV (Wireless)

Connecting a DLNA TV to a network is simple. An Ethernet cable can be used to connect the Ethernet socket on the rear of the TV to an unused Ethernet port (LAN Port) on a wireless home broadband router.

## Preparation:

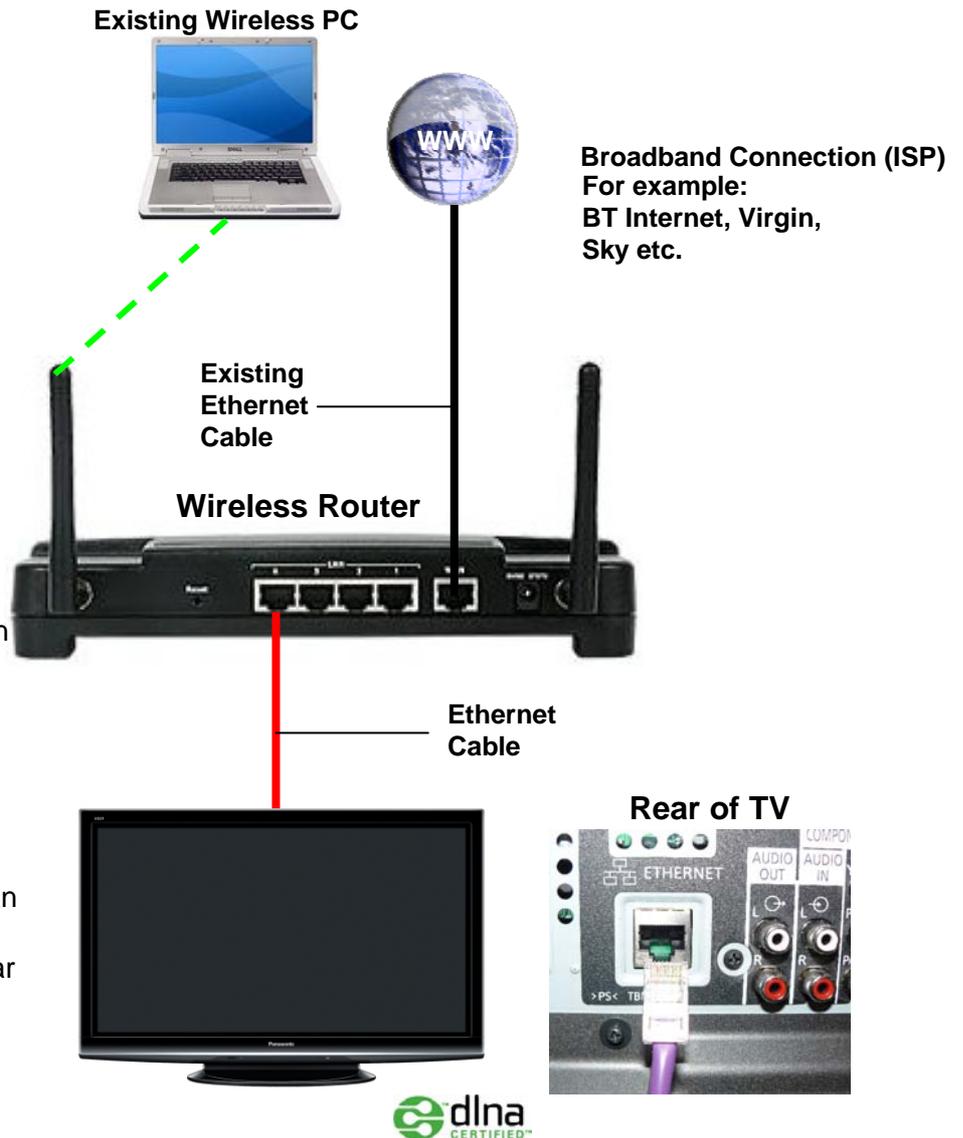
You will need a working broadband connection with a Wireless router and a PC with a Wireless link to the router.

## Step 1

Connect one end of the Ethernet cable to a spare Ethernet socket on the broadband router. (These are often marked "LAN" on the router.)

## Step 2

Connect the other end of an Ethernet cable to the Ethernet socket on the rear of the VieraCast TV.



As Shown above, connection of a DLNA TV to your network is usually a very simple process. Once connected, there are usually no settings to change on the TV. If there are any problems, refer to the trouble shooting guide as it may be necessary to make some changes to the broadband router settings.

# What is Twonky Server software?

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Twonky Server is software that you install on a PC allowing the PC to share media files such as Pictures and Videos with other PCs and devices on your network. It is very similar to Windows Media Player but it has been DLNA certified to ensure that it complies with DLNA Standards.



## What is a Server?

A server is a device that stores and manages files on a network, rather like a library full of books, a vast amount of information could be stored in one place and a system for indexing all of the information is needed to easily find a particular book.

You may wish to look at the index from different views to, for example, see all of the books in a particular category, or you may wish to view a list of all of the book's titles in alphabetical order or by author. A Media Server (or media manager) does the same job for media files.

## How do I get Twonky Server software?

Twonky Server software is downloaded from the Twonky Media Website. The URL is:

[http://www.twonkymedia.com/server\\_download.html](http://www.twonkymedia.com/server_download.html)

Please be careful as Twonky also have a medial player that can be downloaded. Initially you will download a trial version of the server software. The software can be used for up to 30 days, at which point the trial period expires. In order to convert the trial version into a full (permanent) version a licence key must be entered.

Panasonic provide a leaflet with a licence key for Twonky Media Server with 2009 DLNA Certified TVs. Each Licence key can be used 3 times allowing up to 3 home computers to have Twonky Media Server software installed.

**Software installation instructions** are available on-line and can be downloaded and printed if required. Instructions include installation for Windows XP, Windows Vista, LINUX and MAC.

<http://www.twonkymedia.com/downloads/Guides+-+English.zip>

# Downloading Twonky Software

It will be necessary to download the Twonky Server software from the Twonky Media website. Panasonic provide a licence key for the software allowing it to be installed on up to 3 computers. Download from:

[http://www.twonkymedia.com/server\\_download.html](http://www.twonkymedia.com/server_download.html)

The screenshot shows the Twonky Media website with the following elements:

- Header: TWONKY MEDIA™, Learn, Buy★, Ask, Search TwonkyMedia [SEARCH]
- Section: @ MEDIA SERVER
- Text: Select the TwonkyMedia product below to download your free 30-day trial. When your trial is over, you will be prompted for a license key. Please visit this website to purchase one.
- Download Links:
  - TwonkyMedia server 5.0.61 for Windows (XP/Vista) - Red arrow points to this link with text: **To download software for Windows XP or Vista, click this link**
  - TwonkyMedia server 5.0.61 for Mac - Red arrow points to this link with text: **To download software for a MAC computer, click this link**
  - TwonkyMedia server 5.0.61 for Linux (x86 Manual Install) - Red arrow points to this link with text: **To download software for a LINUX computer, click this link**
- Installation Guides:
  - Deutsch
  - English
  - Espanol
  - Italiano
  - Japanese
  - Russian
- Footer: SITE MAP, LEGAL, PRIVACY, ABOUT US, CONTACT US, BUY

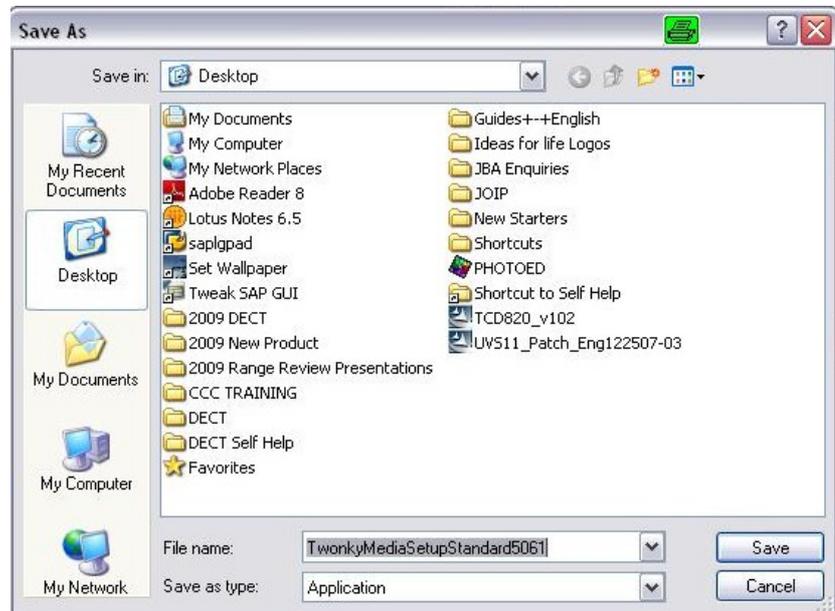
When you click on one of the links above the following screen appears. Click on "Save" to save the software installation file to your computer

**Continued ...**



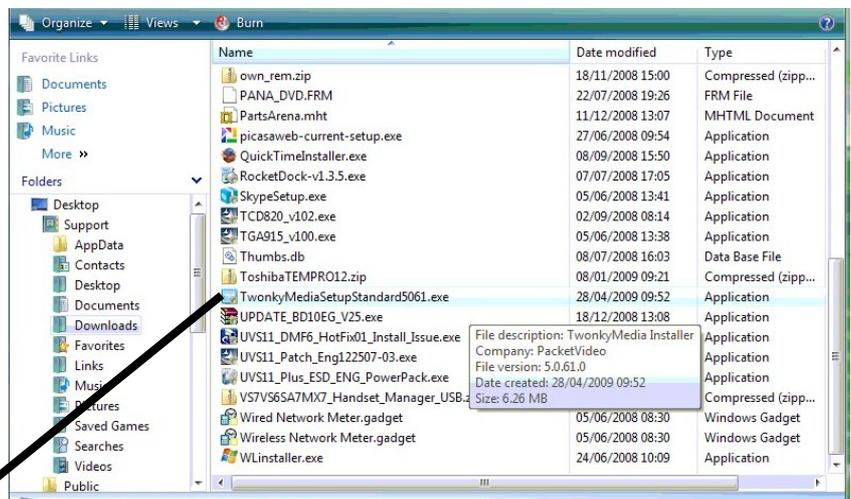
# Downloading Twonky Software

When prompted to Save the file, pick a location that can easily be found such as a downloads folder or the desktop. This will make it easier to find the installation file later.



Once the file has been saved to the chosen location, Make sure that you can identify it. To install the file you just double click the “.exe file” icon.

Please download the installation instructions if needed.



To install the Twonky Media Server software Double Click on this icon.

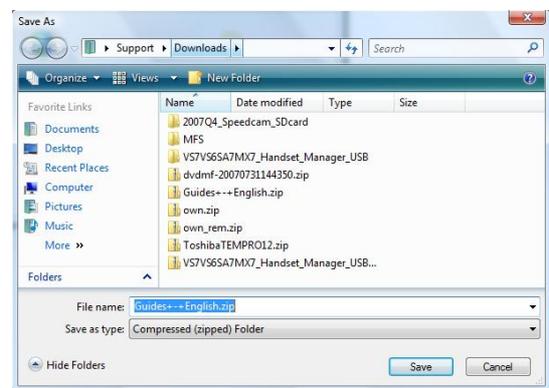
# Downloading Twonky installation Instructions

Instructions for installing Twonky Media server can be found at the following URL:  
<http://www.twonkymedia.com/downloads/Guides+--+English.zip>

When you click on the link above the following screen appears. Click on “Save” to save the software installation file to your computer

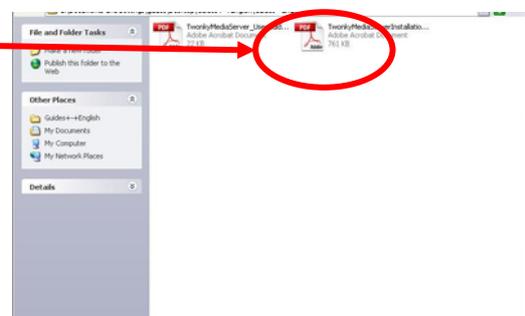


When prompted to Save the file, pick a location that can easily be found such as a downloads folder or the desktop. A folder containing 2 PDF files will be saved. One file is the Twonky user Guide and the second file is the Installation instructions



Double click in the Twonky Media installation Guide Icon to open the PDF File.

A separate Installation guide is available which can be printed if necessary.



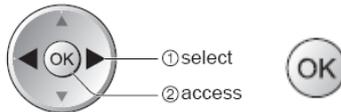
# Using Media Server

DLNA certified Viera TVs can access and play Media files such as video and picture files stored on a PC when connected to the same home network. Twonky Media server software should be installed and running on the PC to allow it to share the media files.

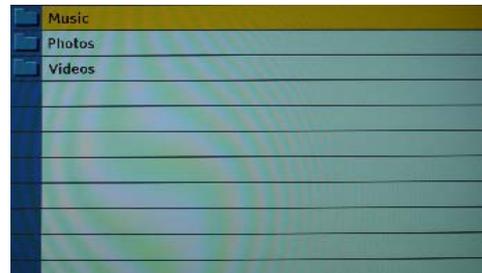
Switch on the TV and press the “Viera Tools” button. [The welcome screen appears]



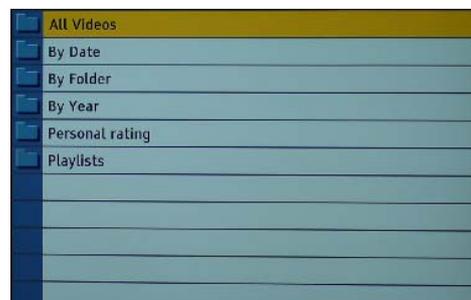
Select “Media Server” then press OK



Press “▲▼” Buttons to select the Twonky Media Server on your network then press OK



Press “▲▼” Buttons to select “Videos” or “Photos”, Then press OK



**Music files Cannot be played on the TV**

Continued ...

# Using Media Server Continued

Press “▲▼” Buttons to select “All Videos” or “All Photos”. Then press OK



Videos or Pictures are previewed in the top left hand corner of the screen and the file details are shown below the preview screen

Press “▲▼” Buttons to select the video (or photo) that you wish to play then press OK



The Video will begin and will continue to the end. The screen will then revert back to the list of videos shown before.

If you wish to stop a video during playback Press “▼” Button. The screen will revert to the list of videos shown before.

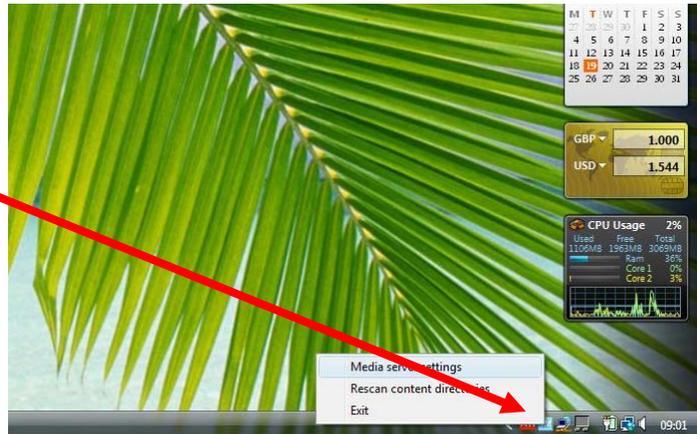


# Changing the Server Name

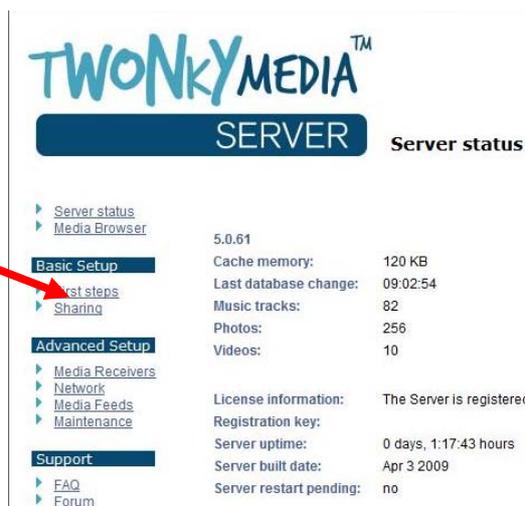
More than one PC (with Twonky Media Server software) can be used as a server on a home network. To easily identify the different servers, they can be individually named as follows:

Right click on the Twonky server icon in the bottom right corner of the screen.

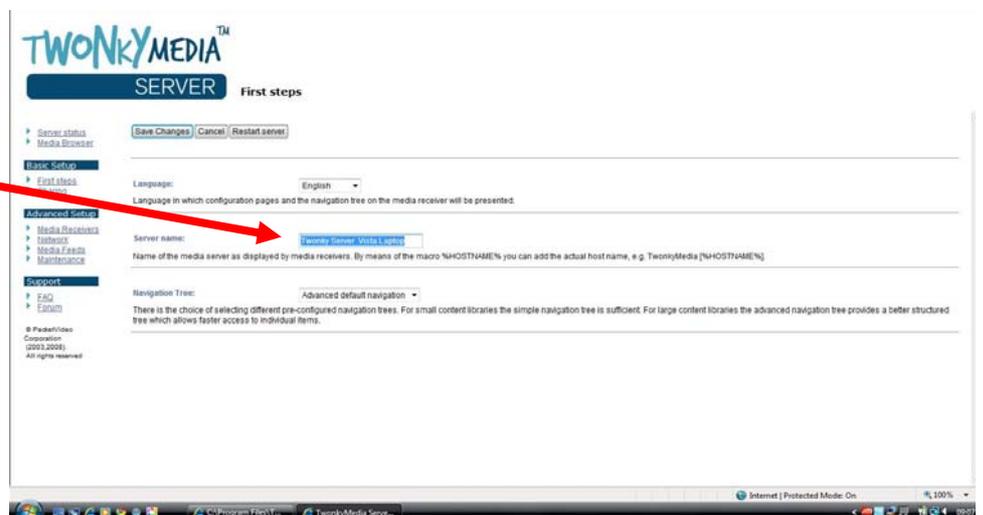
Click on "Media Server Settings".



Click on the "First Steps Link".



Highlight the current server name in the "Server Name" Field

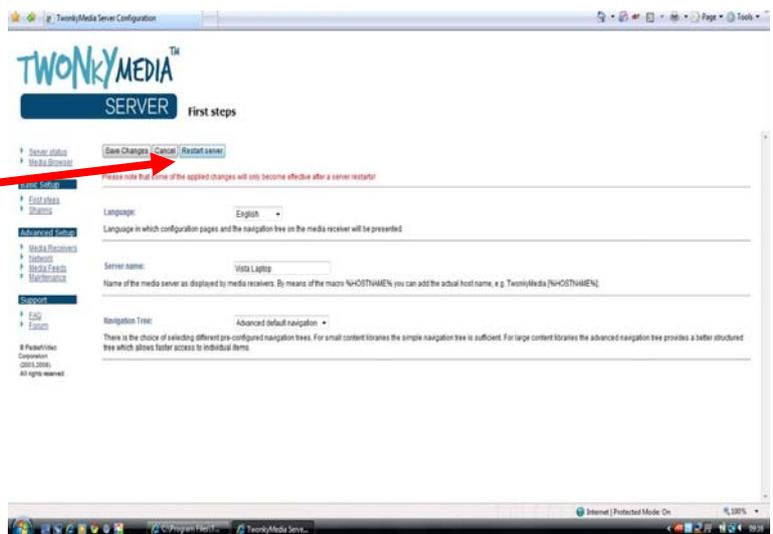


# Changing the Server Name

Type in the New Name and click on the “Save Changes” button.

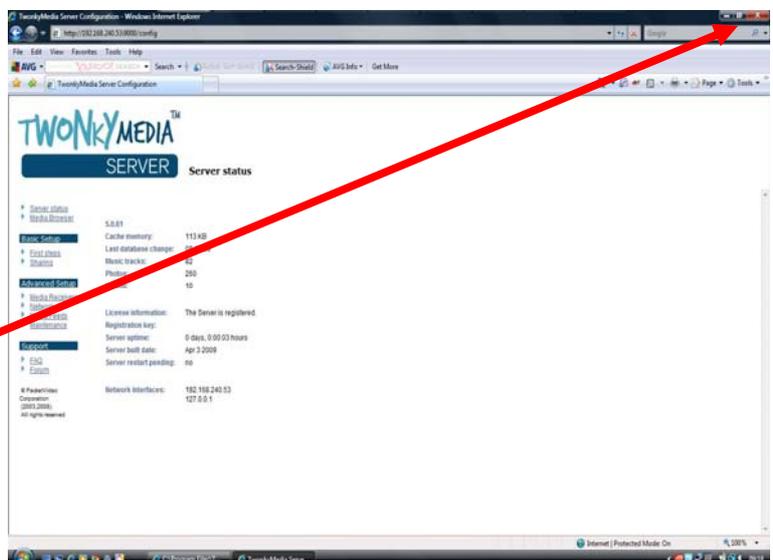


Click on the “Restart Server” button.



The server will Restart and the “Server Status” screen appears.

The status screen can now be closed by clicking on the red “X” in the top right of the screen



# Playable Media files

Media Type	File Format	Resolution	Playable	Details / Alternatives
Video	DivX (HT) (Home Theatre)	Minimum: 32x32 Maximum: 720x576	YES	PAL and NTSC DIVX Home Theatre files. Divx 6 or earlier versions
Video	MPEG2 PS (Program Stream)	720x576 704x576 544x576 352x576 352x288	YES	Video Playback from Twonky Server Software
Video	YOU TUBE	Any resolution will NOT play	NO	You Tube footage can be played through Viera cast or a PC
Still Pictures	JPEG (XXXXXX.JPG)	30,712(W) x 17216(H)	YES	Still Picture Playback from Twonky Server Software
Still Pictures	PICASA	Any Resolution Will NOT Play	NO	PICASA pictures and slide shows can be played via Viera cast or a PC
Audio	All Audio File formats	Audio files <b>NOT</b> supported at all.	NO	No Audio files are supported via DLNA. Audio files can be played on a PC or some games consoles such as an X-Box

# Trouble Shooting

Problem	Possible Cause	Suggestions
Cannot Connect to the network	The Ethernet connection may be unplugged  The router may be switched off	Check that the Ethernet cable is plugged in to the Ethernet socket on the rear of the unit and to the broadband router.  Check that the router is on and that a PC can access the internet
Some media files will not play	The media formats that can be played are limited.	Please refer to media type table for those media files that are playable.
The TV cannot automatically acquire an IP address.	The router may not be set to automatically issue an IP address.	Check the router settings and ensure that the DHCP option is enabled/switched on.
	The router may not be set to automatically issue IP address.	Use manual IP settings if the network administrator prefers to manually allocate IP Addresses. The IP address issued will have to be manually entered in the network settings menu.
The TV is connected to the broadband router but the network connection test fails.	The wrong type of Ethernet cable may be used.	Use a standard LAN straight through cable to connect to the internet via a router or a hub. Cross over Ethernet cable is only used in connecting directly to the Ethernet socket of a PC.
	The router may be using MAC Filtering (security Settings).	Note the MAC address, found in the network settings menu and add it to the MAC filtering table. Please consult the router instructions for help with this.
Customer has lost Licence number supplied in the box	The leaflet provides a licence number allowing Twonky Media Server to be installed on up to 3 computers	It is possible to purchase a licence for Twonky Server software on-line if all 3 registrations have been used or if the licence number has been lost. <a href="http://www.twonkymedia.com/buy.html">http://www.twonkymedia.com/buy.html</a>