**BUFFALO**™

4030 W. Braker Lane #120
Austin, TX 78759
800-456-9799

www.buffalotech.com

Buffalo Technology (USA), Inc. is a leading global provider of affordable, easy-to-use, next-generation wired and wireless network solutions for the consumer, SOHO and SMB markets.  With its expansion into the U.S. retail market, Buffalo offers Home users a full suite of wireless Home networking solutions such as its award-winning line of AirStation 54g products; its 125* High-Speed Mode™ 802.11g products; and its versatile line of 802.11a/b/g combo products.  Buffalo completes its offerings with additional world-class networking solutions that include memory, storage and multimedia products – perfectly suited for any wireless environment.

# LinkTheater™

BUFFALO™

# Contents

# Safety

**Using this Safety Guide**
In order to use this guide correctly, the meaning of the notations and symbols used are described below.

**Notations and Symbols**

Caution Mark

**⚠Caution**

Items to which you must pay attention when handling the product. Failure to follow this mark may result in personal injury and/or damage the equipment.

Reference Mark

**▶Reference**

Refers to the related subject page.

**For your safety, please be sure to follow the instructions given below:**
To prevent unexpected injury to yourself or others, or damage to the equipment, be sure to follow all the safety precautions given below.  To use the LinkTheater correctly, first read these precautions and make sure that you understand the contents. After reading, be sure to store this manual in a safe place so that you can refer to it if necessary.

This manual contains instructions concerning the general operation of the computer system to which the Linktheater is connected, as well as those concerning the LinkTheater itself.
Please note that our warranty will not cover any damage or failures of the computer, the loss or corruption of data, or damage to the LinkTheater due to misuse.

# Meaning of Notations and Symbols

**Meaning of Notations**

⚠

Danger
Indicates a hazardous situation, which, if not avoided, runs a high risk of death or serious injury.

Caution
Indicates a potentially hazardous situation which, if not avoided, may result in death or serious injury.

Warning
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate personal injury and/or damage to the equipment.

**Meaning of Symbols**

⚠

This symbol indicates warnings and cautions e.g. electric shock warning

🚫

This symbol indicates actions that must not be performed (prohibited actions)

⚫

This symbol indicates actions that must be performed (essential actions)

## Danger

**Prohibited**

**When handling batteries**
Do not disassemble or remodel.
Do not place a metal wire between the + and – pads. Do not carry with a hairpin or necklace.
Do not place in the fire or overheat.
Do not pierce with a nail, hit with a hammer or stamp down.
Or heat will be generated and the battery will ignite and explode.

## Warning

**Prohibited**

**When handling batteries**
Do not disassemble, remodel, repair or charge.
Do not use a new and a used battery or two batteries of a different make together.
Do not mistake the + and – nodes when inserting the battery.
Do not leave used batteries in the device.
Or heat will be generated and the battery will ignite and explode.

**Contact Prohibited**

**When a battery leaks do not touch the liquid.**
The liquid that leaks from a battery may burn. If the liquid gets on skin or clothing, wash with clean water.
If the liquid gets in your eye, wash with clean water immediately and seek medical treatment.

**Strongly Recommended**

**When changing the batteries, only used those which have been specified.**
Using batteries other than that specified may result in the leakage of fluid, and the battery may ignite and explode.

**Strongly Recommended**

**Make sure to observe the instructions of the computer and peripheral manufacturers when installing and using the LinkTheater.**

**Disassembly Prohibited**

**Do not attempt to disassemble or repair the LinkTheater.**
This may result in fire or electric shock

**Prohibited**

**Using the device with a different voltage such as may exist overseas, may result in a short circuit, smoke or fire.**
Only insert the plug into a 100V (50/60Hz) AC socket.

**Strongly Recommended**

**Insert the AC adapter firmly into the AC Socket.**
Using the equipment without the AC Adapter firmly inserted may cause a short circuit or overheating, or result in fire or electric shock.

**Prohibited**

**Do not damage, process, overheat, or attempt to repair the power supply cable, as this may result in fire or electric shock.**
- When installing the equipment, do not crimp the power supply cable between walls and racks (shelves) etc.
- Do not place heavy objects on the power supply cable, or pull at the cable.
- Do not place the power supply cable close to heat sources, or overheat the cable in any way.
- When removing the power supply cable, be sure to remove it my holding the plug.
- Do not bend the cable past its natural bending radius.
- Do not move the LinkTheater while the power supply cable is still connected.
If the power supply cable is damaged consult your dealer.

**Strongly Recommended**

**Install the equipment in a location where children cannot reach the interior of the electrical equipment, cables, or connectors.**
Failure to do so may result in injury.

4

**Strongly Recommended**

**A small child should only use the LinkTheater under supervision of an adult.**

**Strongly Recommended**

**Do not handle the equipment with wet hands.**
This may result in electric shock if the LinkTheater is connected to the AC power supply.
Even when connected it may cause internal damage to the LinkTheater.

**Remove Power P.**

**If you see smoke or there is a strange smell or sound, remove the plug from the AC power supply socket.**
Continuing to use the device under these conditions may result in a short circuit, fire, or electric shock.
Consult with your dealer immediately.

**Water Prohib**

**Do not use the LinkTheater in bathrooms or other locations with a lot of water or humidity.**
Using the device under these conditions may result in fire or electric shock .

**Remove Power P.**

**If the product is dropped or subjected to a severe shock, remove the AC adapter immediately.**
Continuing to use the device under these conditions may result in a short circuit, fire, or electric shock.
Consult with your dealer immediately.

**Remove Power P.**

**If liquid or foreign matter enters the equipment, remove the plug from the power socket.**
Continuing to use the device under these conditions may result in a short circuit, fire, or electric shock.
Consult with your dealer immediately.

**Prohibited**

**Do not look straight at the Laser Beam.**
Do not peer into or open the casing and look straight at the Laser light, as it may be hazardous for your sight.

**Strongly Recommended**

**To Prevent damage due to static electricity, before touching the equipment, first touch a nearby metal object (such as a door handle or metal window blinds) to discharge any static electricity from your body.**
Static electricity from your body may result in damage to the equipment.

**Strongly Recommended**

**Only use the power cable and AC adapter provided with the LinkTheater.**
The polarity and voltage of the terminal may differ between makes. Which may result in smoke and fire.

**Caution**

**Prohibited**

**Please remove the battery if not using the LinkTheater over a long period.**
The battery may leak, which would dirty the device and might cause damage to it, or cause a fire.

**Prohibited**

**Do not use the LinkTheater if there has been a leakage of battery fluid.**
Continuing to use the device under these conditions may result in a fire, or electric shock. Consult with your dealer immediately.

**!** Strongly Recommended
**Carefully read the manuals provided by the manufacturers of all other products used (i.e. PC).**

**⊘** Prohibited
**Do not install the LinkTheater in the following locations, as doing so may result in an electric shock or fire, or may adversely affect the equipment.**
- Locations with strong magnetic fields (may result in damage).
- Locations with static electricity (may result in damage).
- Locations prone to vibration (may result in damage).
- Locations that are not level (may result in rolling, falling, or injury).
- Locations in direct sunlight (may result in damage or deformation).
- Locations close to fire or subject to heating (may result in damage or deformation).
- Locations where there is a danger of current leakage (may result in damage or electric shock).
- Locations where there is a danger of water leakage (may result in damage or electric shock).

**!** Strongly Recommended
**Before installing or uninstalling the LinkTheater make sure to create backup files of all hard disk data to another media (MO disk, floppy disk etc.).**
When making any change to the PC environment there is always a possibility that the data on the hard disk may be lost or corrupted, therefore it is always advisable to create a backup.
Buffalo will not be held responsible for loss or corruption of hard disk data.

**!** Strongly Recommended
**Please remove any dust or dirt from the head of the connectors and do not touch with your hands.**
Dirt on the connector may cause damage.

**⊘** Prohibited
**Do not place any heavy object on top of the LinkTheater.**
Doing so may damage the LinkTheater.

**⚠**
**Care for CD or DVD media.**
- Do not expose to direct sunlight
- Do not use abrasive or solvent cleaners use a slightly damp, soft, lint-free cloth to remove spots, dust, or fingerprints. Always wipe from the center to the outer edges and never wipe in a circular motion.
- Do not use adhesive labels or write on the disk with a pencil or ballpoint pen.
- Store discs in a cool, dry, dust free place.
- Handle the disc only by the outer edge or inner hole, to keep fingerprints and smears from the surface.
- Store discs in protective storage cases to avoid scratches or damage while carrying.

**⊘** Prohibited
**Do not used scratched or damaged media.**
Using such media may result in damage to the LinkTheater.

**⊘** Prohibited
**Please take care not to damage the reflective side of the media.**
- Do not scratch the top (label surface) of the CD or DVD.
- Do not stack uncovered CDs or DVDs on top of each other.
- Do not write on the label side with a ballpoint pen or any hard object.
- Do not use adhesive labels.

**⊘** Prohibited
**Do not move the LinkTheater with a CD or DVD inside.**
Do not move the LinkTheater while still operating or while a CD or DVD are inside.
Doing so may cause damage to the media or the LinkTheater. Also, before moving the LinkTheater, switch it off and unplug the power.

**Strongly Recommended**

**Regularly clean the lens.**
Dust and cigarette smoke may adhere to the lens causing poor reading quality or may prevent writing to the media Use a cleaning kit to clean the lens regularly.

**Prohibited**

**Do not use abrasive or solvent cleaners.**
Use a soft cloth when cleaning the LinkTheater. If very dirty, use a slightly damp cloth to remove any dirt.

**Strongly Recommended**

**Please follow local regulations when discarding the LinkTheater.**
Refer to local rules and regulations for the appropriate method to discard the contents of this product.

# Introduction

Buffalo Technology's **LinkTheater PC-P3LWG/DVD Wireless High-Definition Media Player** is the missing link between your TV, home entertainment center, and computer network. Now, you can play the movies, music, and photos stored on your computers from the comfort of your living room, through your TV and home entertainment center.

The LinkTheater can connect to wired or wireless networks.  With 802.11g technology, your media files can move through your wireless network at up to 54 Mbps*, and the RJ-45 Ethernet port is good for 100 Mbps with wired connections.

The LinkTheater has a wide variety of AV connections on the back, including High-Definition compatible video connectors as well as digital Dolby™ 5.1 and DTS compatible audio connectors. LinkTheater also supports Universal Plug & Play for easy installation.

Most of the industry's most popular video, image, and audio formats are supported by LinkTheater. LinkTheater includes support for the following file types:

> Video:  AVI, DAT, MPEG 1, MPEG 2, MPEG 4, DivX, Xvid, WMV, WMV 9, DivX HD, WMV HD, VOB, ASF
> Image:  JPEG, JPEG2000, BMP, GIF, PNG, TIF
> Audio:  MP3, WMA, WAV, OGG Vorbis, AIFF, PLS, M3U

Besides ordinary CD's and DVD's, LinkTheater's player can handle the following media:  CD-ROM, CD-R, CD-RW, DVD-ROM, DVD-R, DVD-RW, DVD+R, DVD+RW

Prepare to experience one of the highest quality, most versatile media players available!  Buffalo Technology's LinkTheater will provide seamless access to your multimedia archives.

The LinkTheater supports playback on *high-definition* displays.  If a high-definition display is being used, media playback is automatically upconverted to high-definition (720p or 1080i).  This results in enhanced image and video quality over a standard player on high-definition displays.  Additionally, the menu and browsing displays may be displayed in high-definition for a richer user experience. Unlike most other media players, the LinkTheater also supports playback of true, native high-definition video files like DivX HD and WMV HD.

***NOTE:**  Due to the requirements of the DVD Consortium and MPAA, DVD Video playback is fixed at 480p and not upconverted to 720p or 1080i.*

*\*54 Mbps is the theoretical maximum data transfer rate of the IEEE 802.11g standard.  Actual wireless network data transfer speed is limited by environmental and system factors and will be less.*

# Package Contents

The LinkTheater package should include the following items.  If any items are missing, contact your retailer or reseller.

- LinkTheater
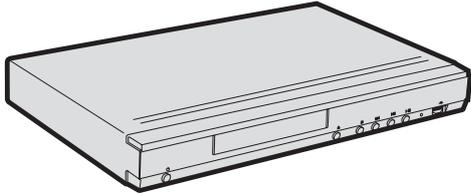
- AAA Batteries

- Power Cable

- Ethernet Cable

- AV (Composite) Cable

- Remote Control

- CD-ROM

- Manual (This Guide)

- Warranty Card

# System Requirements

- Television or monitor with one of the following video input connectors:
  - Composite (RCA) Video, S-Video, Component Video, or D4 video

- Television, monitor, audio receiver, or powered speakers with one of the following audio input connectors:
  - Analog RCA, Coaxial Digital, or Optical Digital audio

- A wired or wireless network (802.11b or 802.11g)

- One or more of the following media sources:
  - Windows 98SE/ME/2000/XP PC or Apple OS X Mac with a CD-ROM or DVD-ROM Drive
    (500 MHz or above is recommended)
  - LinkStation Network Storage Center
    (with at least version 1.46 firmware; firmware update program is included on the CD-ROM)
  - TeraStation Network Storage Center
  - USB Hard Drive
  - USB Multi-Card Reader
  - USB Memory Stick
  - CD-ROM, CD-R, CD-RW, DVD-ROM, DVD-R, DVD-RW, DVD+R, DVD+RW

# Remote Control

1. Power

2. Open/Close Tray Drawer

3. Info

**. : /**
**1**

**abc**
**2**

**def**
**3**

4. Setup

**ghi**
**4**

**jkl**
**5**

**mno**
**6**

8. Alphanumeric Buttons

5. Refresh

**pqrs**
**7**

**tuv**
**8**

**wxyz**
**9**

6. TV Mode

**TV**

**Clear**

**0**

**CAPS/NUMS**

9. Caps/Num

7. Clear

**Video**

**Music**

**Photo**

10. Photo

11. Music

12. Video

13. Top Menu

**Top Menu**

**Menu**

14. Menu

15. Enter

**Enter**

16. Directional Pad

17. Home

**Home**

**Return**

18. Return

19. Play

21. Pause/Step

20. Stop

**Stop**

**Play**

**Pause**

**Slow**

22. Slow

23. Previous

**Previous**

**Rewind**

**Forward**

**Next**

25. Next

24. Rewind

26. Fast Forward

27. Search

29. Repeat

28. Subtitle

**Subtitle**

**Search**

**Repeat**

**A-B**

30. A-B

31. Audio

**Audio**

**Angle**

**Zoom**

**Mute**

32. Mute

33. Angle

34. Zoom

1. **Power** – Turns the LinkTheater on and off.
2. **Open/Close Tray Drawer** – Opens and closes the LinkTheater's DVD drive door
3. **Info** – Provides on-screen information when viewing or playing a file
4. **Setup** – Setup options for LinkTheater configuration
5. **Refresh** – Refreshes the information and file list on the screen
6. **TV Mode** – Toggles the different display modes; the modes are as follows:
   a. Composite/S-Video (Default Setting)
   b. 480i Component Video / D4
   c. 480p Component Video / D4 (Progressive Scan)
   d. 720p Component Video / D4 (HDTV)
   e. 1080i Component Video / D4 (HDTV)
   Toggle the proper TV Mode button by pressing TV Mode and then the 'Enter' button until the proper display is visible on your screen. Depending on what video cables are used to connect to your TV, there may be times where the screen remains black; in this case, continue to press the 'TV Mode' button followed by the 'Enter' button until the best visible display is found.
7. **Clear** – Clears the last text or numerical entry
8. **Alphanumeric Buttons** – Used for character input. Press the numbers multiple times to begin using alphabetic characters. Press the '1' key multiple times to access punctuation marks and press the '0' key to insert a space.
9. **Caps/Num** – Press once to lock Alphanumeric buttons to all capital letters, press again to lock Alphanumeric buttons to numeric entry only, press again to return to normal Alphanumeric entry operation.
10. **Photo** – Press the Photo button to list only available image files on the display.
11. **Music** - Press the Music button to list only available audio files on the display.
12. **Video** - Press the Video button to list only available video files on the display.
13. **Top Menu** – Access the Top Menu in DVD Video Playback
14. **Menu** – Access the Menu in DVD Video Playback
15. **Enter** – Selects a file for playback, selects a field for input, confirms on screen messages
16. **Directional Pad** – Selects the proper content on the display.
17. **Home** – Returns the LinkTheater to the *Home* ("login page") menu
18. **Return** – Takes the display back to the previously viewed screen.
19. **Play** – Plays a file or starts a slide show
20. **Stop** – Stops file playback or stops a slide show
21. **Pause/Step** – Pauses file playback, press again to step one frame forward
22. **Slow** – Begins slow motion playback, press multiple times to increase slow motion effect
23. **Previous** – Skips one chapter back in DVD playback
24. **Rewind** – Rewinds playback, press multiple times to increase rewind speed
25. **Next** – Skips one chapter ahead in DVD playback
26. **Fast Forward** – Fast forwards playback, press multiple times to increase fast forward speed
27. **Search** – Displays search menu in DVD playback
28. **Subtitle** – Activates subtitles in DVD or supported file playback. Press multiple times to cycle through available subtitles
29. **Repeat** – Repeats DVD, CD, or file playback
30. **A-B** – Repeats a user defined segment of CD or DVD playback. Press once to mark the beginning of the playback segment, press again to mark the end of playback, and press a third time to loop and repeat the playback segment.
31. **Audio** – Cycles through the available audio playback modes including Mono and Stereo playback.
32. **Mute** – Mutes the LinkTheater's audio output. Press once to mute, press again to turn mute off.
33. **Angle** – In DVD playback press this button to change DVD disc angle (on multi-angle DVD discs). In photo playback or slide shows, press the Angle button to rotate the photos display by 90 degrees.
34. **Zoom** – Zooms the display in a variety of ways. If video or DVD playback appears as a small window, use the Zoom button to make the display fit the screen or go into full screen mode.

Insert the included AAA batteries into the remote control by sliding the battery cover off of the remote control (as shown in the illustration). Insert both AAA batteries into the battery sockets the proper way, following the etched guide underneath the battery sockets.
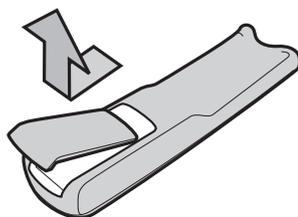
This illustration shows the maximum angle and distance for the remote control. The remote control should be within *a 30° angle* and no more than *8 meters* from the infrared receiver on the LinkTheater. The infrared receiver is located just to the right of the LED display.

**8m**

**30°**     **30°**
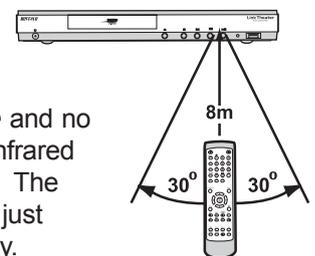
# Hardware Diagrams

## Front Panel

Power Button    DVD    Display    USB 2.0 Port

BUFFALO    DVD VIDEO    Link Theater
Network Media Player

Eject Button

Stop Button

Skip Back

Skip Forward Button

Play/Pause Button

External Antenna Connector

AOSS Button

## LED Display

VCD Playback    JPEG    CD Playback

MPEG-4    USB    Audio Playback

DVD Playback    WMV Playback

DVD    MP4    VCD    JPEG    USB    CD    Audio    WMV

Play Mode

Pause Mode

pscan

Repeat Mode

Progressive Scan Mode

Numeric

## Rear Panel

D4 Connector    AC Power Connector

LAN Port

S-Video Connector

Digital Audio Connectors

Composite Audio Connector

Composite Video Connector

Component Video Connectors

# Connecting LinkTheater to the Display

There are several methods for connecting video and audio cables between your LinkTheater, your TV monitor, and your home theater. LinkTheater comes with a Composite (RCA) cable that will connect LinkTheater to a TV. This is probably the simplest solution; just connect video and audio directly from the linkTheater to your TV with the supplied cable, lean back, and enjoy your new media player. However, you may get higher quality video and audio by using other configurations. Alternate video cables such as S-Video or Component Video offer a potentially better picture if your TV supports them. Also, if you have an A/V receiver with better speakers than your TV monitor, connecting LinkTheater's audio output to it may give you much improved sound quality. You can even connect LinkTheater to your A/V receiver with RCA or Toslink digital 5.1 inputs, if your receiver has these, allowing 5.1 surround sound. Additional cables (not included) will be necessary for these configurations. If you want the best video and audio possible, you'll probably want to connect the LinkTheater's video output to your monitor or TV with *component video cables* and the audio output to an A/V receiver with an *RCA or Toslink digital* connection, but not all televisions and receivers have these inputs available. If in doubt about which connections to use, consult the user manuals for your television and your A/V receiver.

Please begin by connecting the included AC power cable into the AC In port on the back of LinkTheater. Then, plug the AC power cable into a power outlet. If you are using an Ethernet cable to connect your LinkTheater to your network, then plug the Ethernet cable into the Ethernet port on the back of LinkTheater.

**Setup Using Composite Video and Analog Audio:**



Included Composite Cable

**Setup Using S-Video:**
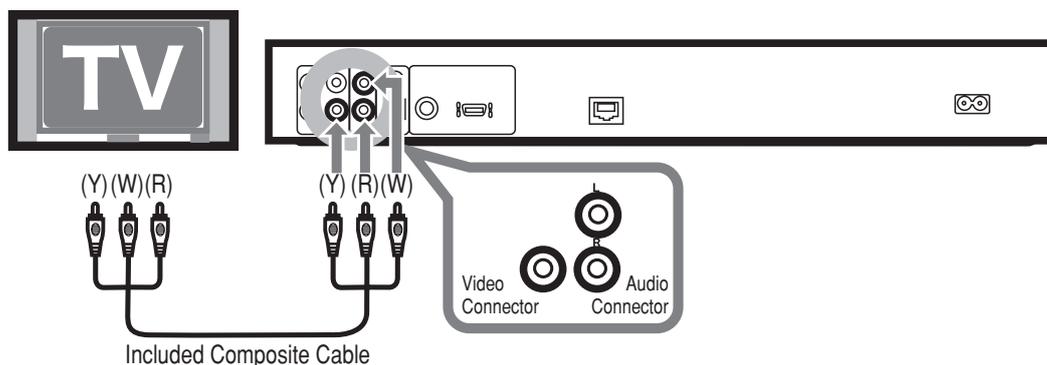


Composite Audio Cable
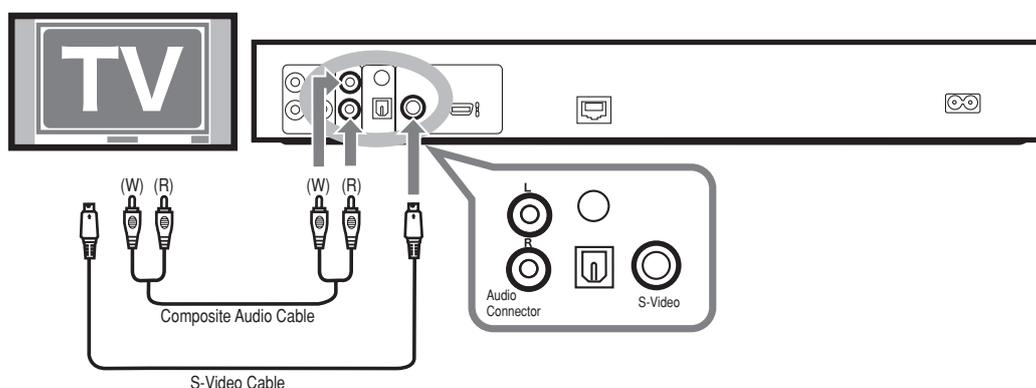
S-Video Cable

*NOTE: The included composite cable can be used for audio with the S-Video setup; just use the red and white audio connectors only. The yellow composite video connector can be left unplugged. For that setup, you'll also need an S-Video cable, not included with LinkTheater, for the video connection.*

**Setup Using Component Video:**



Component Video Cable

(R) (G) (B)  (R) (B) (G)

**TV**

C<sub>B</sub>/Pe   Y   L

C<sub>R</sub>/P<sub>R</sub>   R

(W) (R)   (W) (R)

Component          Audio
Video Connector    Connector

Composite Audio Cable
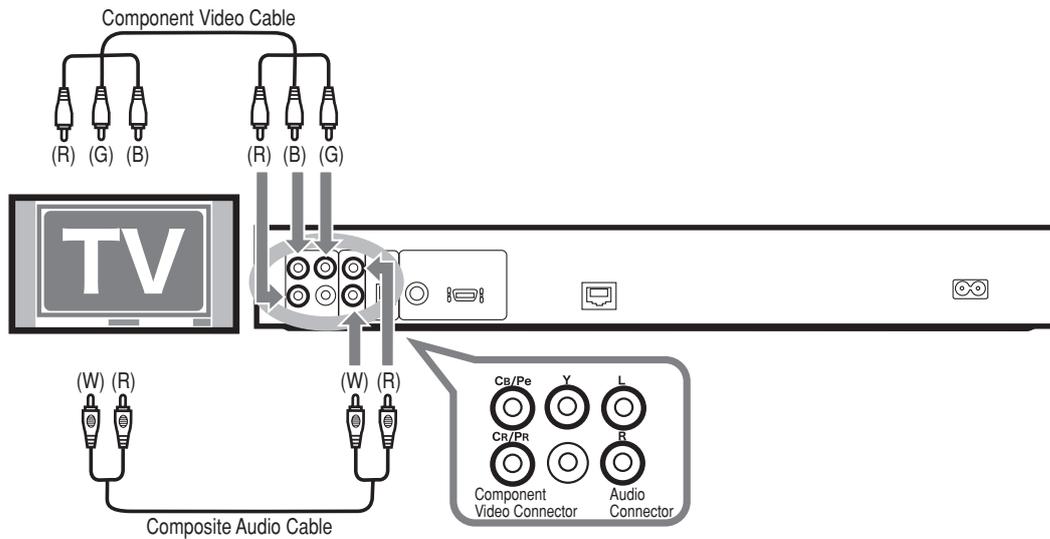
Note:  The LinkTheater's *default TV Mode* will not initially send video to the Component Video outputs, so all you'll see on your TV at first is a blank screen.  If your TV's input is set to '**Component**', you can find the correct video-out mode by pressing '**TV**' and then '**Enter**' on your Linktheater remote until you see the LinkTheater menu on your TV.  This will cycle through the different display modes available.  Continue pressing '**TV**' and then '**Enter**' until the best display is found.  Turn to the next section of this manual for more information on configuring your display with Component Video cables.

**Setup Using Digital Audio:**
If your A/V receiver has a digital audio input, you'll get better sound (and 5.1 support) if you connect the audio from LinkTheater to the A/V receiver with either a toslink (optical) or RCA (coaxial) digital audio cable.  You'll also need to enable digital out in the LinkTheater's main options settings to complete the digital audio setup.  Turn to the next page to continue setting up LinkTheater.



Sound
Receiver

Coaxial

Optical

Optical Digital Cable

Coaxial Digital Cable
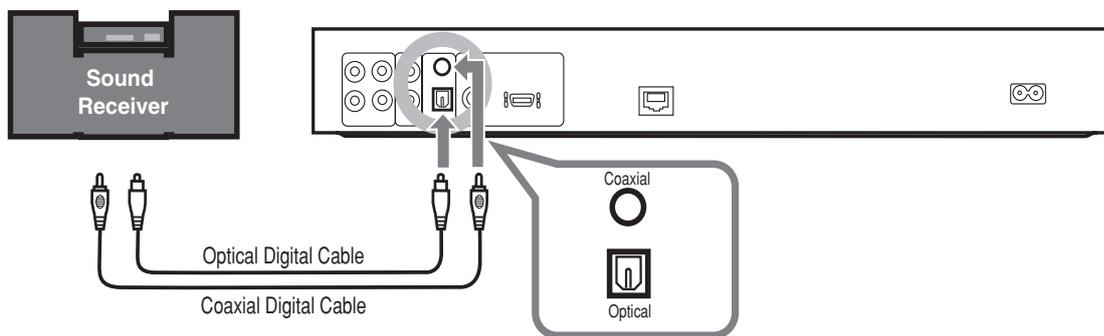
# Configuring LinkTheater Settings

Now that LinkTheater is hooked up, you can begin configuring it. Your LinkTheater and display or TV should be powered on, the right TV input mode to match the video input that you plugged your LinkTheater into should be selected, and the LED Display on the front of the LinkTheater should be lit. If it isn't, make sure that LinkTheater is plugged into a working power outlet and that the batteries in the remote control are fresh and correctly installed.

When LinkTheater is first turned on, the LED Display will read BUFFALO. After it completes booting up, the display will change to LOG IN. If you are using Composite Video or S-Video you should see a picture on your display or TV. If you're using Component Video you will need to follow the next step.

**Component Video Mode:**
If you're using the component video connections to connect LinkTheater to your TV, you'll see a blank screen the first time you turn LinkTheater on. On your TV, select the *component input* that your LinkTheater's component video cable is plugged into. Usually, you can find this by pressing the '**Input**' button on your TV's remote until you see the word "*Component*" on the screen. Press the '**TV**' button on the LinkTheater remote control, followed by the '**Enter**' button. Press '**TV**' again followed by '**Enter**' again to enter additional modes (*480p*, *720p*, and *1080i*). Most high-definition TV's will look their best in one of these three modes. If you cycle too far, LinkTheater may select a mode that is not compatible with your display or TV, and the display will go black. Keep pressing '**TV**' and then '**Enter**' until the best display is chosen.

**Progressive Scan:** If a progressive scan compatible mode is selected, a *PScan* LED will light up on LinkTheater's display.

**Home Page:**
Now that your video is displaying properly, the *Home* screen will be visible on your display or TV. You can always get back to this page by pressing the '**Home**' button on LinkTheater's remote control.
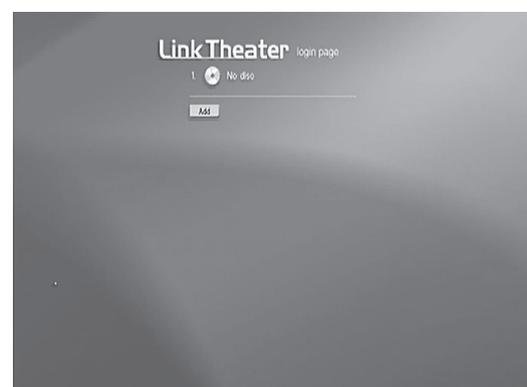


Press the '**Setup**' button on the remote control to begin configuring LinkTheater.

There are five setup pages within LinkTheater. Use the remote control's directional pad to navigate between the five graphical icons inside the Setup area. Use the '**Enter**' button on the remote control to select one of the five setup pages.

Each of the five setup pages contains settings for different LinkTheater functionality:

## Option Settings Menu

**Screen Saver –** Specify the amount of time before LinkTheater switches its display to a screen saver. Some displays and TVs can suffer screen burn if the same image is displayed for too long. The screen saver helps protect your display or TV from this burn-in.

**Slide show Timer** – The default time between slides when running a photo or image slide show off of the LinkStation, the USB Port, or the DVD Drive.

**Dimmer** – Specifies how bright the LED Display on the front of LinkTheater should be. There are three settings (100%, 50%, and OFF). 100% is the brightest display level, while OFF makes the display invisible.

**Subtitle** – Specify the default subtitle language for LinkTheater. This applies only where applicable subtitles are available (like DVD or VCD playback). If you do not wish to use subtitles, then set the subtitles to '**Off**'. If you ever need to quickly enable subtitles, the '**Subtitle**' button on the remote control can quickly enable or disable subtitles.

**Browser Option** – Specifies whether or not to run the LinkTheater browser in high-definition mode. This setting should typically only be checked if you are running a *high-definition* (720p or 1080i) TV or Display. It greatly enhances the way the menus and browsers look while operating the LinkTheater. After this option is enabled, LinkTheater will have to be restarted before the setting takes effect.
*NOTE: Some 480p progressive scan displays may benefit from enabling this option.*

Once all of the settings on this page have been applied, press the '**Save**' button. You may be prompted to restart LinkTheater.

## DVD Settings Menu

**VCD PBC** – Specifies whether VCD playback control is enabled. Usually this should be set to '**On**'.

**DVD Parental Level** – Specifies whether DVD parental control is activated or not and to what degree. Some DVDs enforce parental management levels, allowing players to play only DVDs that meet specific requirements. Parameters for level settings are as follows:

> Off – *Do not enforce any parental control* (allows unrated movies to play)
> 1 – *Acceptable for children of all ages* (allows G rated movies to play)
> 2-3 – *Acceptable for elementary children* (allow most PG rated movies to play)
> 4-7 – *Acceptable for middle school and high school children* (allow most PG13 rated movies to play)
> 8 – *Acceptable for adults* (allows most NC-17 and R rated movies to play)

**TV Type** – Select the aspect ratio that matches your TV or display. A 16:9 ratio is recommended for wide-screen monitors, while the 4:3 setting is best for a conventional TV or display.

**Auto Play** – If Auto Play is *on*, LinkTheater will automatically play disks when they're inserted into the DVD drive. If Auto Play is turned *off*, you will be required to select the DVD disc from the main Home screen whenever you want to play a DVD.

**Audio Setting** – Specifies whether LinkTheater outputs analog (composite) or digital audio. If you're using composite RCA audio cables then leave this setting at '**Stereo Output**'. If you used a digital audio cable, whether coaxial or optical, select the '**AC3 5.1**' output. A digital connection allows for Dolby 5.1 surround sound and DTS surround sound playback.

**Set Password** – This allows you to password-protect the *DVD Parental controls*, discouraging an unauthorized user from changing them.

Once all of the settings on this page have been applied, press the '**Save**' button.  You may be prompted to restart LinkTheater.

### IP Address Settings Menu

This setup page displays your current IP Address settings.  By default, DHCP automatically selects an IP Address for you.  Some advanced users may want to specify their own IP address and can do so by pressing the '**Switch to Manual**' button.



### Update Settings Menu

This setup page allows you to check for updates to the LinkTheater firmware and software.  Click the '**Check for firmware update**' text and you will begin the process of locating and applying a firmware update.  This option requires a network connection that connects to the Internet.  Only apply firmware updates if you have been told to do so by Buffalo Technology's Technical Support or are positive that a firmware update is required.  Updating a firmware on a device improperly can cause unexpected behavior.
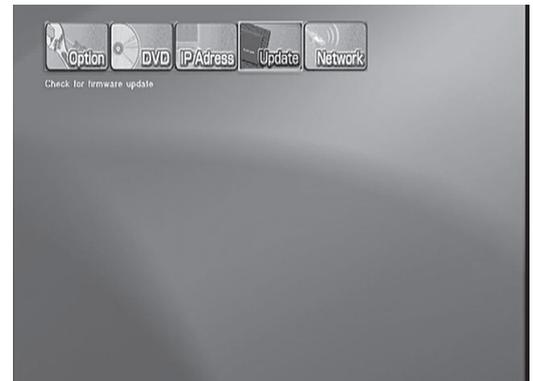


### Network Settings Menu

**Now Using** – Displays whether you are connected to a *wired* or *wireless* network.

**Network** – Select '**Wired**' or '**Wireless**' depending on how you wish to connect to your network.  If you make a change to this field you will be required to reboot.  After you make a change to this field, immediately press the '**Save**' button below, allow LinkTheater to reboot, and then return to this page to continue your network configuration.



**AOSS** – Specifies whether Buffalo Technology's AOSS will work on this product.  AOSS is a wireless technology and will only work if the network mode is set to '**Wireless**' and your access point is AOSS compatible.  If both Wireless and AOSS are on, then the AOSS button on the front of LinkTheater will work.  Please see the next section labeled 'Using AOSS' for more information regarding AOSS.

**Available** – Provides a list of wireless networks available in the area.  Only access points or wireless routers that broadcast SSIDs will be displayed here.  Once you select the proper wireless network, press the '**Select**' button.

**SSID** – This field displays the SSID that LinkTheater is to connect to.  SSIDs can be manually inputted here if they're not broadcast.  The SSID can automatically be filled in by using the '**Available**' option above.

**Connection** – Specifies whether to use *Infrastructure* or *Ad-hoc* mode.  If you're connecting your LinkTheater to a network through a router or wireless access point, leave this in the *Infrastructure* mode. To make a network connection directly to a computer, choose the *Ad-hoc* mode.

**WEP** – Specifies whether *WEP encryption* is used on the wireless network.  If it's used, please select the proper mode from the drop down menu.

> WEP 64 ASCII - 5 digit WEP key
> WEP 64 HEX - 10 digit WEP key
> WEP 128 ASCII - 13 digit WEP key
> WEP 128 HEX - 26 digit WEP key

**WEP Key** – If your wireless network uses a *WEP key*, enter it here.  Leave out colon separators (":").  If it doesn't use one, leave this field blank.

Once all of the settings on this page have been applied, press the '**Save**' button.  You may be prompted to restart the LinkTheater.

Congratulations, your LinkTheater is configured!  Press the '**Home**' button on the remote control to return to the *Home* screen.  You can now use your LinkTheater to play multimedia files.

# Using AOSS

If you *don't* have an AOSS compatible wireless router or access point, you can skip this section.  Consult your router's documentation for more information on configuring it for WEP encryption.

If your wireless router or access point *is* AOSS compatible, setting up a secure wireless network is very easy.  Begin by pressing the AOSS button on your wireless router or access point until the AOSS light begins to flash on that device.  Then, press the AOSS button on the front of LinkTheater until AOSS begins flashing on the LED Display.  The AOSS session may take up to two minutes to complete; once completed, LinkTheater will display a message stating that the AOSS process is complete.  You will be required to restart LinkTheater to apply the new settings.

# External Wireless Antenna Installation

The LinkTheater uses two internal diversity antennas for the internal 802.11g wireless radio.  In some cases it may be desirable to add a higher gain  antenna.  If the signal is weak between the LinkTheater and your wireless router or access point, an external antenna can increase the range and signal quality.

The LinkTheater has an MC Card antenna connector for attaching an external antenna.  Any antenna with an MC Card connector on it should work with the LinkTheater.  For best results, Buffalo Technology's indoor antennas are recommended.  Please visit the Buffalo Technology Web Site (**http://www.buffalotech.com**) for more information regarding Buffalo Technology antennas.



Installing an external antenna is easy.  Plug the antenna into LinkTheater's antenna connector.  The antenna connector is on the bottom of the LinkTheater, under the USB Port.  For more antenna installation information, refer to the documentation that came with your antenna.

# Using your LinkTheater's Remote Control

Operating the LinkTheater is easy, especially if you remember these five buttons on your remote:

- At any menu screen, pressing the '**Home**' button on the remote control will return you to the starting *Home* page.  If you are playing a file and wish to return to the *Home* page, please press the **'Stop'** button and then the '**Home**' button.

- The '**Return**' button takes you back to the page you were at last.  If you accidentally browse to the wrong area, the '**Return**' button will quickly return you to the  screen you came from.

- The '**Refresh**' button will immediately refresh all of the data on the current screen.  If multimedia files have been moved, reorganized, or deleted, a quick refresh will show the changes immediately.  Also, on the *Home* screen, the refresh button will show new computers and devices available to LinkTheater.

- When playing a video or music file, the '**Mute**' button on the remote control will immediately shut down all audio output from the LinkTheater.  Pressing the '**Mute**' button a second time will un-mute the LinkTheater and resume audio playback at the original volume level.

- Due to the differences in video file formats, some video files may play back in a smaller than desirable part of the video screen.  Try pressing the '**Zoom**' button on the remote control to cycle through the different display modes until the best display setting is found.

# The Home Screen

When LinkTheater starts up, it goes to the *Home* screen. This screen gives you access to all of your computers and devices. If at any time you wish to return to the Home screen, press the '**Home**' button on the remote control (if you are playing back a media file, press the '**Stop**' button first).

The LinkTheater uses UPnP (Universal Plug 'n Play) technology to automatically add computers and devices to the Home screen. If UPnP has been intentionally disabled on a device, you may have to add it to the Home screen manually, but most devices will automatically appear on the Home screen.

Computers or devices on the network will be displayed next to teal bullets. Computers or devices that are turned off will be displayed next to dull grey colored bullets. The last computer or device you accessed will be displayed with a picture of a Home in the bullet.



To manually add a computer or device to LinkTheater, press the '**Add**' button on the Home screen. Use the remote control's directional pad to navigate to the '**Add**' button and then press the '**Enter**' button on the remote control.

The next screen will guide you through adding a computer or device to LinkTheater. Enter the following information:

**Media Server Name** – Enter an appropriate name to identify this computer or device on the Home screen.
**Media Server IP** – Enter the IP Address of the media server you wish to connect to. Refer to your computer's operating system documentation or your device's documentation to help you determine the IP Address.
**Always connect to this Media Server** – Checking this box will tell LinkTheater to always connect to this Media Server when it starts up.
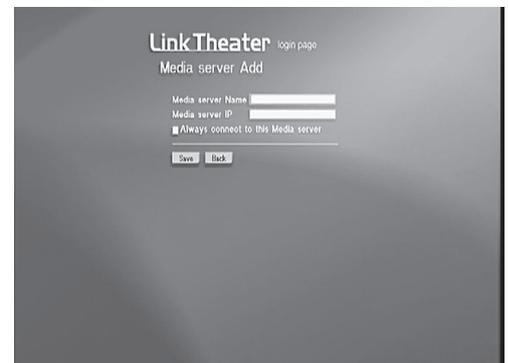


When you have completed inputting the entry, press the '**Save'** button.

If a computer or device on the *Home* screen is no longer necessary it can be removed. Use the remote control's directional pad to navigate to the '**Delete**' button and then press the '**Enter**' button on the remote control.

Check the appropriate computers or devices to be removed and then press the '**Delete**' button. After the computers or devices have been deleted, you will need to press the '**Back**' button to return to the Home screen.
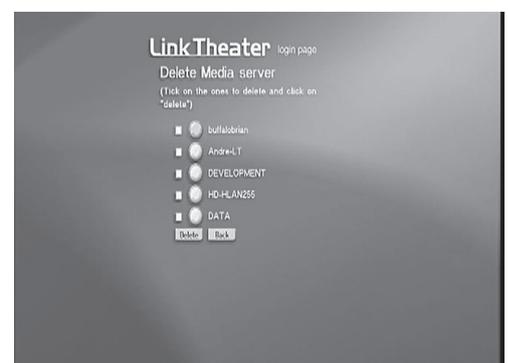
# DVD/VCD Playback

DVD or VCD playback on LinkTheater is very easy; it's much like a stand-alone DVD player. There are two ways to begin DVD or VCD playback:

1) If '**Auto Play**' is turned on in the DVD Settings Menu, then just inserting a DVD or VCD will begin playback.

2) You may always launch playback manually: Insert the DVD or VCD movie into LinkTheater's DVD Drive. Press the '**Home**' button on the remote control to go to the *Home* page. The top icon there will be your DVD or VCD movie. Select it with the directional pad and press the '**Enter**' button on the remote control. Playback will begin.
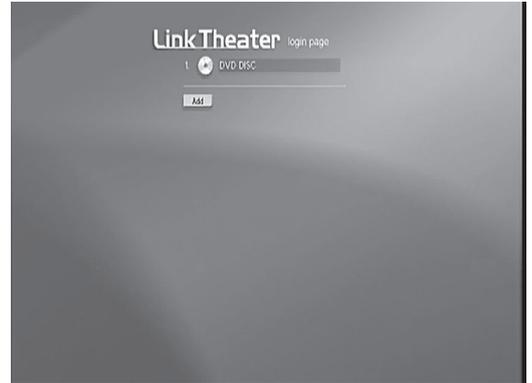
# DVD/CD File Playback

LinkTheater can play most multimedia CD and DVD disks.  Supported disc media include:

| | |
|---|---|
| CD-ROM | DVD-R |
| CD-R | DVD-RW |
| CD-RW | DVD+R |
| DVD-ROM | DVD+RW |

LinkTheater supports most popular video, image, and audio formats:

Video:  AVI, DAT, MPEG 1, MPEG 2, MPEG 4, DivX, Xvid, WMV, WMV 9, DivX HD, WMV HD, VOB, ASF
Image:  JPEG, JPEG2000, BMP, GIF, PNG, TIF
Audio:  MP3, WMA, WAV, OGG Vorbis, AIFF, PLS, M3U

To play a DVD or CD, insert it into LinkTheater's DVD Drive.  The disc will then be available from the *Home* page.  Press the '**Home**' button on the remote control to see your media choices.  The top icon will be your DVD or CD data disc.  Select it with the directional pad and press the '**Enter**' button on the remote control.

You'll then able to browse through any available folders and subfolders using the remote control's directional pad.  When you find a music, audio, or video file you would like to play, press the '**Enter**' button on the remote control.

By pressing the '**Video**', '**Music**', or '**Photo**' buttons on the remote control you can quickly list only videos, music, or photo files.  In cluttered, large directories this may help you locate the specific file you are looking for more easily.

**Video Playback**

Highlight a video file on LinkTheater and press the '**Enter**' button on your remote to play.  During the video the '**Pause**' button will pause the video's playback (the '**Play**' button will resume the video).  The '**Rew'** and '**FF'** buttons will rewind and fast forward the video.  The '**Stop**' button will halt video playback.

**Photo Playback**

Press the '**Enter**' button to display a photo on LinkTheater. Press the '**Play**' button to play all of the photo files in that directory as a slide show. During the slide show the '**Pause**' button can be used to stop a slide show (the '**Play**' button will resume the slide show). The up and down arrows on the directional pad can also be used to change slides. The '**Stop**' button will stop the slide show. Additionally, the '**Angle**' button on the remote control will rotate an image or photo 90 degrees.



**Music Playback**

Press the '**Enter**' button to play a music file on LinkTheater. Press the '**Play**' button to play all of the music files in that directory as a playlist. The '**Pause**' button can be used to pause music playback (the '**Play**' button will resume the playback). The '**Prev**' and '**Next**' buttons on the remote control can be used to skip to the next song, and the '**Rew**' and '**FF'** buttons can be used to rewind and fast forward a music file. The '**Stop**' button can be used to stop playback altogether.

To exit back to the main *Home* page, press the '**Home**' button on the remote control after all file playback has been stopped.

# USB Device Playback

The USB 2.0 Port on the LinkTheater can be used for media playback.  Several USB devices can be used for media playback including the following:

USB Hard Drive
Memory Stick USB Keychain
Multi-Card Memory Reader
USB Digital Camera

*NOTE:  Other USB devices may work as well, as long as they're formatted with FAT16 or FAT32.*

If you have a USB storage device, insert it into the USB port on the front of the LinkTheater.  USB Devices can be inserted at any time, the LinkTheater does not have to be turned off to insert or remove a USB Device.  Once it has been inserted, the USB device will become available from the Home page within seconds.  Press the '**Home**' button on the remote control to access the Home page.  The USB Device will be listed based off of its name.

*NOTE:  When using a Multi-Card Reader, multiple USB Devices may be available from the Home screen, each entry supports a different media format.*

Once you have accessed the USB Device, you'll be able to browse through available folders and subfolders using the remote control's directional pad.  When you find an image, audio, or video file that you would like to play, press the '**Enter**' button on the remote control.

By pressing the '**Video**', '**Music**', or '**Photo**' buttons on the remote control you can quickly list only videos, music, or photo files depending on which button you pressed.  In cluttered, large directories this may help you locate the specific file you are looking for.

**Video Playback**

Press the '**Enter**' button to play a video file on LinkTheater.  During the video the '**Pause'** button will pause the video's playback (the '**Play**' button will resume the video).  The '**Rew**' and '**FF**' buttons will rewind and fast forward the video.  The '**Stop**' button will stop the video playback altogether.

**Photo Playback**

Press the '**Enter**' button to display a photo on LinkTheater. Press the '**Play**' button to play all of the photo files in that directory as a slide show. During the slide show the '**Pause**' button can be used to stop a slide show (the '**Play**' button will resume the slide show). The up and down arrows on the directional pad can also be used to change slides. The '**Stop**' button will stop the slide show. Additionally, the '**Angle**' button on the remote control will rotate an image or photo 90 degrees.

**Music Playback**

Press the '**Enter**' button to play a music file on LinkTheater. Press the '**Play**' button to play all of the music files in that directory as a playlist. The '**Pause**' button can be used to pause music playback (the '**Play**' button will resume the playback). The '**Prev**' and '**Next**' buttons on the remote control can be used to skip to the next song, and the '**Rew'** and '**FF**' buttons can be used to rewind and fast forward a music file. The '**Stop**' button can be used to stop playback altogether.

To exit back to the main Home page, press the '**Home**' button on the remote control after all file playback has been stopped.

# PC Playback

To play back files from your PC on your LinkTheater you must install Buffalo's LinkTheater PC Software or use Microsoft's Windows Media Connect Software.  For most media, Buffalo's LinkTheater PC Software is recommended with the LinkTheater for the best overall playback experience, but you'll need Windows Media Connect if you want to play copyrighted media that has been protected with DRM (Digital Rights Management).  You can, of course, install both.

**Buffalo LinkTheater PC Software**

Requirements to run LinkTheater PC Software:
- Windows 98SE/ME/2000/XP PC System
- CD-ROM or DVD-ROM Drive
- 250 Megs of available Hard Drive space
- Wired or wireless (802.11b or 802.11g) network connectivity
- 500 MHz or higher PC is recommended

**Installation of Buffalo LinkTheater PC Software**

Insert the Buffalo LinkTheater CD into the PC's CD-ROM or DVD-ROM drive.  The CD will auto-launch and bring up an on-screen menu.  If the CD does not auto launch, press on the '**Start**' menu, press the '**Run . . .**' option, and type **D:\setup.exe** (where D is the drive letter of your CD-ROM device).

Once the CD-ROM has launched, an on-screen menu will be visible. Please select the '**Install LinkTheater PC Software**' option and press '**OK**'.



The Setup Wizard for the LinkTheater PC Software will begin.  Press the '**Next**' button to continue installation.
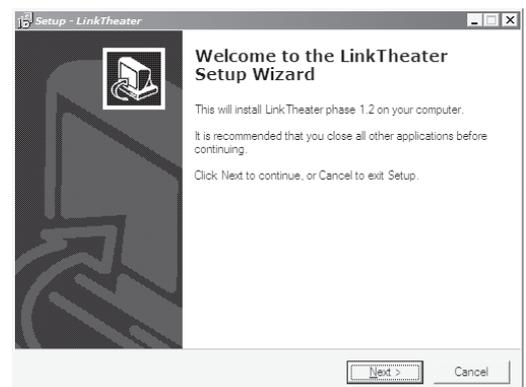
Accept the user license agreement by reading the entire license agreement, selecting the '**I accept the agreement**' bullet, and pressing the '**Next**' button.
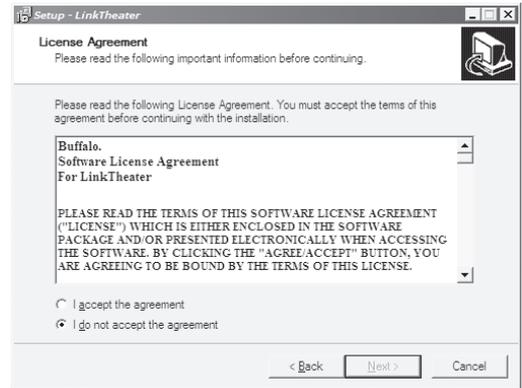
Read the information and press the '**Next**' button to continue.
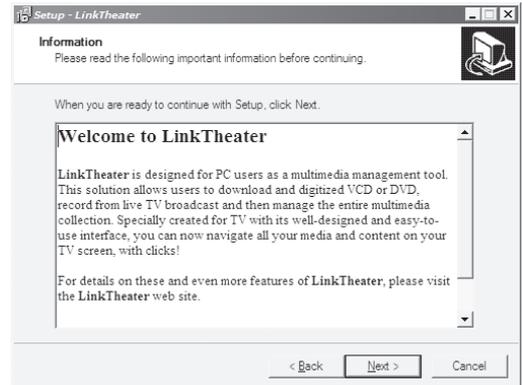
Select the installation directory. The default installation directory is recommended, but if you require a special installation location, please type it in the field or search for it via the '**Browse**' button. Once the proper installation directory has been selected, press the '**Next**' button.
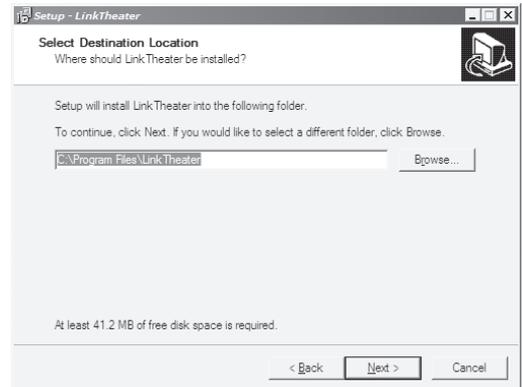
Select the start menu group that will be created by setup. The default start menu group is recommended, but if you'd like to rename the group, feel free to do so. Additionally, if you'd prefer not to have a start menu group (not recommended), then check the '**Don't create a Start Menu folder**' option. When you have finished, press the '**Next**' button.
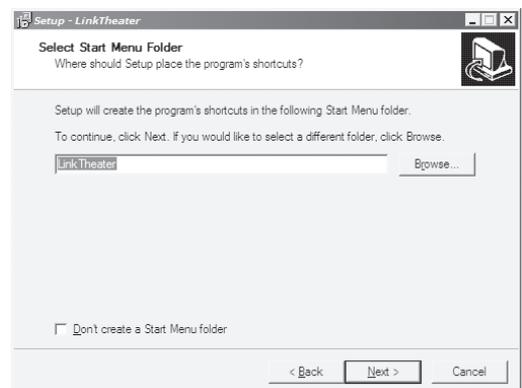
Select any additional tasks from the list. Press the '**Next**' button to accept the additional tasks.
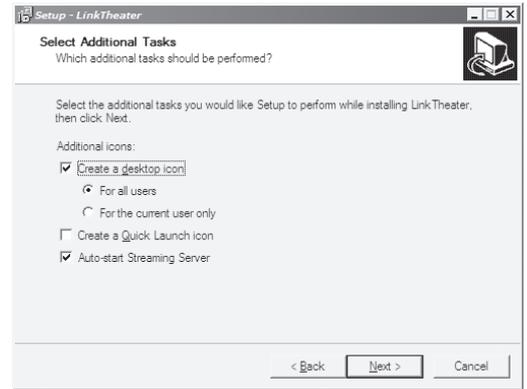
Confirm that the installation information is correct and then press the '**Install**' button.
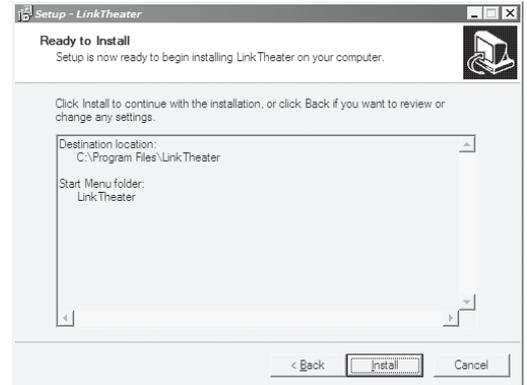
The installation may take more than several seconds to complete. When you see this screen, press the '**Finish**' button. If you leave the checkbox checked, the LinkTheater software will now launch.
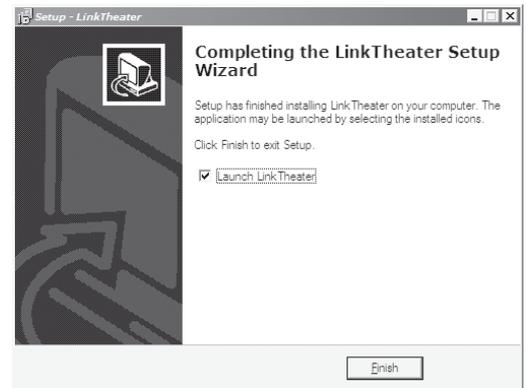
# Configuring the LinkTheater Software

The LinkTheater software should be running on your PC at this point; you'll see this icon in the system tray. Configure the LinkTheater software by double-clicking on its icon.



Once the LinkTheater PC Software is visible on your screen, use the pull down menu to select '**Edit' -> 'Preferences**'.



**General**

The General preferences menu will allow you to custom configure the LinkTheater Software. It is not recommended to change any settings under the '**System**' tab. Only change the port number if absolutely required to by a network administrator. Unchecking the '**Support for UPnP Media Server**' will force you to manually find the LinkTheater PC Software from the LinkTheater device itself. With this option checked, LinkTheater will automatically find your LinkTheater software.
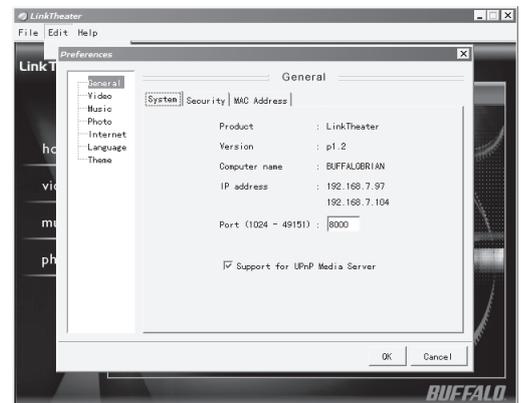


The '**Security**' tab allows you to set a password for access to this PC from LinkTheater. Setting a password here will require a user of LinkTheater to input a password every time they want to playback multimedia files that reside on the specific PC. One may wish to do this if there is adult or mature content residing on the PC that should be restricted from children. Please make sure to press the '**Save**' button after you have inputted a password, or the password will not be stored.
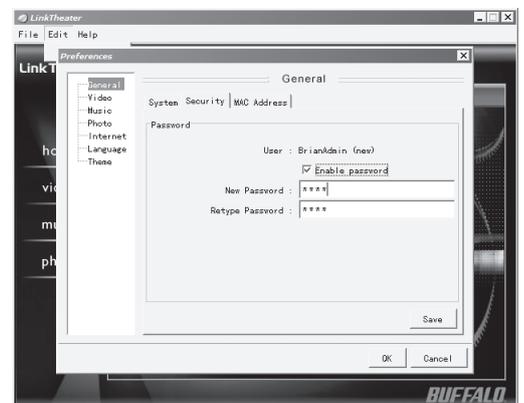
The '**MAC Address**' tab allows you to specify which LinkTheater can see this PC. If there are multiple LinkTheaters on your network and you wish to only stream information from this PC to one specific LinkTheater, then check the '**Enable MAC address control**' check box, press the '**+**' button, and enter the MAC Address of the specific LinkTheater into the MAC Address list. You may add multiple MAC addresses if you want this PC to stream information to multiple LinkTheaters. If you only have one LinkTheater, ignore this tab.

The MAC Address of a LinkTheater can be found on its rear panel, just above the serial number. Each LinkTheater will have two MAC Addresses, one for the Wired Ethernet Port and one for the Wireless Radio. Please enter the MAC Address that corresponds to the way LinkTheater is connected (if unsure, enter both MAC Addresses).
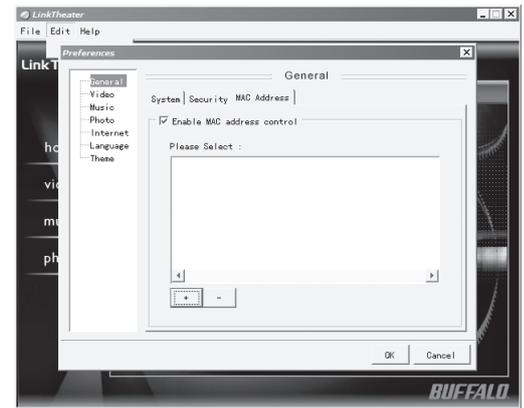
### Video

The Video preference menu tells the LinkTheater PC Software how to handle video files on your PC. Press the '**Browse**' button to setup a '**Video Library**'. This library will be the folder on this PC that will be accessible by LinkTheater. If you would like to enter more then one folder, then please press on the '**Watch Folder**' tab, check the '**Enable watch folder**' option and add additional folders to that list. Any folder in the watch folder list will also be accessible from LinkTheater.

The '**Enable automatic OpenDiv3 video conversion**' option instructs the LinkTheater Software to automatically convert any unplayable Div3 format file to a playable DivX format. It is recommended to leave this option checked. It is also recommended to leave the '**Check for OpenDiv3 video every 1 minute(s)**' set to 1 minute. This instructs the software to search for new video to convert every 60 seconds.
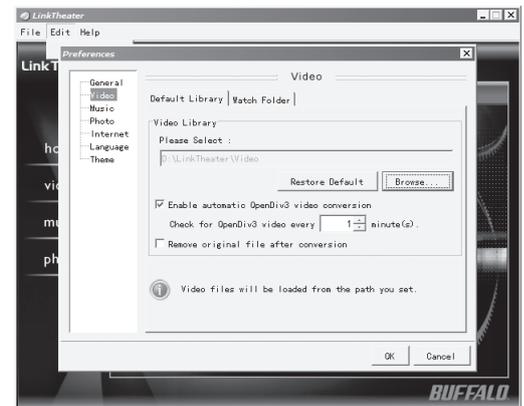
The '**Remove original file after conversion**' check box directs the LinkTheater Software to delete source files after they've been converted to a playable format. Leaving this box unchecked is recommended.

### Music

The Music preference menu instructs the LinkTheater PC Software on how to handle music/audio files on your PC. Press the '**Browse**' button to setup a '**Music Library**'. This library will be the folder on this PC that will be accessible by LinkTheater. If you would like to enter more then one folder, then please press on the '**Watch Folder**' tab, check the '**Enable watch folder**' option and add additional folders to that list. Any folder in the watch folder list will also be accessible from LinkTheater. Alternatively, an I-Tunes database can be loaded by pressing the respective '**Browse**' button and selecting the database file.

The '**Scan for song information**' check box should be checked if you want detailed information about the song being played to be searched for. This includes searching ID3 tags and CDDB databases. Leaving this box uchecked is recommended.

The '**Scan Windows Media Player / Winamp Playlist**' option lists available playlists in the library and watch folders.

**Photo**

The Photo preference menu tells the LinkTheater PC Software how to handle photo/image files on your PC.  Press the '**Browse**' button to setup a '**Photo Library**'.  This library will be the folder on this PC that will be accessible by LinkTheater.

The '**Select photo scale**' options help the photos to look better on LinkTheater's display or TV.  Some pictures may be too small or too large to fit properly on your display or TV.  These options help to improve the photo viewing experience by scaling their size to fit nicely on your display or TV.  These settings may be changed later from within the LinkTheater PC Software.

The '**Fit to Screen**' option shrinks or enlarges an image or photo to display the complete image using as much of the full height or width of the screen as possible.  This option is recommended for most users.

The '**Full Screen**' option shrinks or enlarges an image or photo to display it using the full display area of the TV; in some cases the image will be cropped or expanded to make it fit.  This option is  popular with users of wide screen (16:9) HDTVs.

The '**Actual Size**' option displays your pictures in their actual size, pixel for pixel.  If your pictures are very small or very large, this may make them difficult to view.

**Internet**

The Internet preference menu tells the LinkTheater PC Software how to handle Internet access through this PC.

**Select a photo album for radio playback** selects a slide show that displays while an internet radio site is playing on LinkTheater.  Choosing the '**None**' option from the pull down menu will instruct LinkTheater not to run a slide show while internet radio is being used.

**Synchronize bookmarks** instructs LinkTheater on which of the two popular PC browser's bookmark lists should be used for browsing web pages through LinkTheater.

**Language and Theme**

The Language and Theme options cannot be changed at this time.  English is currently the only available language, and the LinkTheater theme is currently the only available theme.

Once you have configured all of the settings in the LinkTheater PC Software Preferences, press the '**OK**' button.

Anytime you wish to add new files to the PC for file playback on LinkTheater, make sure to insert them in the proper library or watch folder or create a new watch folder by re-entering the preferences menu.  The LinkTheater will constantly search for new multimedia files inside the library and watch folders.

After the preferences have been set on the LinkTheater PC Software, other options can be configured by navigating the main interface on your PC to the three available selections (Video, Music, and Photo).
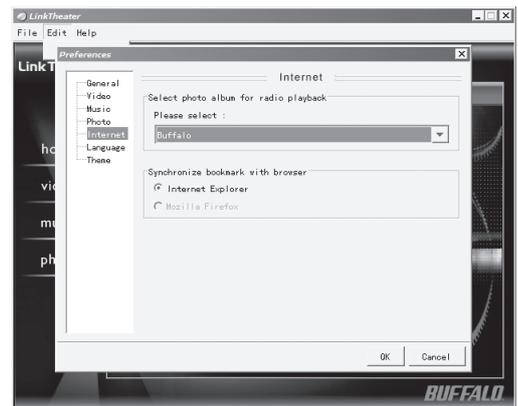
**Video**

The video screen will now show the videos available from your library and watch folders. By clicking on the check box that says '**Play files randomly**', LinkTheater will play all of the video files in your library and watch folders randomly.

You may also manually convert a non-playable Div3 file to DivX. Select an appropriate file from the screen and press the '**convert OpenDiv3 file**' button to convert the file.

**Music**

The music screen will now show the audio and music files available from your library and watch folders. If you click on the check box that says '**Play music in random order**', LinkTheater will play all of the audio and music files in your library and watch folders randomly.

The option to link a slide show to a music folder is also available. Select a music folder and use the pull down menu labeled '**Photo Album**' to play a slide show while the music in that folder is being played. Different folders can have different photo albums selected.
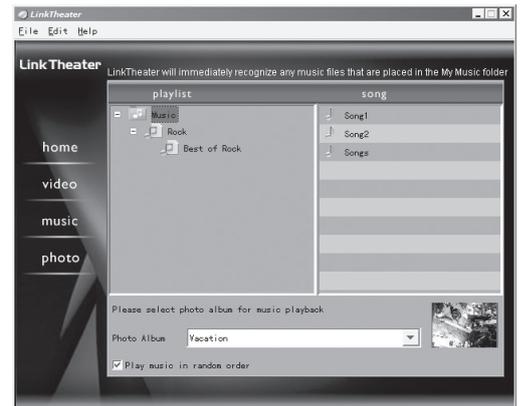
**Photo**

The photo screen will now be configured with the photo and image files available from your library folder. If you click on the '**Play slides in random order**' check box, LinkTheater will play all of the photo and image files in your library folder randomly.

The option to link a music folder to a slide show is also available. Select a slide show and use the pull down menu labeled '**Playlist**' to play a music folder or playlist while the slide show is being played. Different folders can have different playlists or music folders selected.

Once the LinkTheater PC Software has been configured, you can exit the main control screen. If you want your LinkTheater to continue to be able to access media from the PC after the application is closed, be sure to put a checkmark next to '**Streaming server running in backgroud**' before pressing the '**OK**' button.

*NOTE: The LinkTheater PC Software can always be manually launched from either the desktop icon or the start menu entry. The application can be exited at any time by right clicking on the system tray icon and selecting the 'Exit' option. By default, the LinkTheater PC Software will start with your PC as it boots into Windows.*

# LinkTheater PC Software Playback

Now that the LinkTheater PC Software is installed and running, you will be able to stream any files that are inside *library* or *watch* folders.

Access your computer by pressing the '**Home**' button on the remote control. The *Home* page will appear and your PC will appear on the list of available folders. Its name will be the same as its Windows machine nam*e*. Use the remote control's directional pad to select the PC and press the '**Enter**' key on the remote control.

Win98 and WinMe Users: You may be required to add your computer manually. Please see the "The Home Screen" section (page 21) to add your PC to the Home resource list.

Once you have logged into the computer, a unique LinkTheater screen will be displayed. Press '**Video**', '**Music**', '**Photo**', or '**Service**' to select the type of media you wish to play back from the computer.
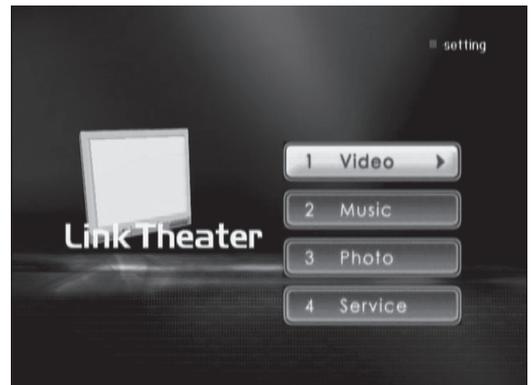
**Video Playback**

Press the '**Enter**' button to play a video file on LinkTheater. During the video the '**Pause**' button will pause the video's playback (the '**Play**' button will resume the video). The '**Rew**' and '**FF**' buttons will rewind and fast forward the video (press '**Play**' to resume normal playback). The '**Stop**' button will stop the video playback altogether.

On the top of the display, there are three buttons:

**Go to** – Displays a prompt where the number corresponding to the video can be entered for immediate playback. For instance, if the video labeled *6* is to be played, pressing the '**Go to**' button and entering '**6**' will immediately begin video playback of the file labeled *6*.

**Search** – Displays a search field to assist you in locating a specific file. Once at the search field, enter the title or any portion of the title into the field using the 10 key text entry of the remote control. Once completed, press the '**Search**' button. Once the search has completed, the matching results will be listed.

**Play all** – Plays all of the files inside of the current folder and subfolders in alphabetical order.

If there are many files in the folder, you may be required to switch between pages. Pages can be switched by manually navigating to the arrows in the top right area of the display. Alternatively, the '**Prev**' or '**Next**' buttons on the remote will change pages.

**Photo Playback**

Press the '**Enter**' button to display a photo on LinkTheater. Press the '**Play**' button to play all of the photo files in that directory as a slide show. During a slide show, the '**Pause**' button can be used to stop a slide show (the '**Play**' button will resume the slide show). The up and down arrows on the directional pad can also be used to change slides. The '**Stop**' button will stop the slide show.

On the top of the display, there are three buttons:

**Go to** – Displays a prompt where the number corresponding to the photo can be entered for immediate playback. For instance, if the photo labeled 6 is to be played, pressing the '**Go to**' button and entering 6 will immediately begin photo viewing of the file labeled 6.
**Slide show** – Displays all of the images inside of the current folder and subfolders in an alphabetical slide show.
**Back** – Jumps back to the previous location or folder.

If there are several files in the folder, you may be required to switch between pages. Pages can be switched by manually navigating to the arrows in the top right area of the display. Alternatively, the '**Prev**' or '**Next**' buttons on the remote will change pages.
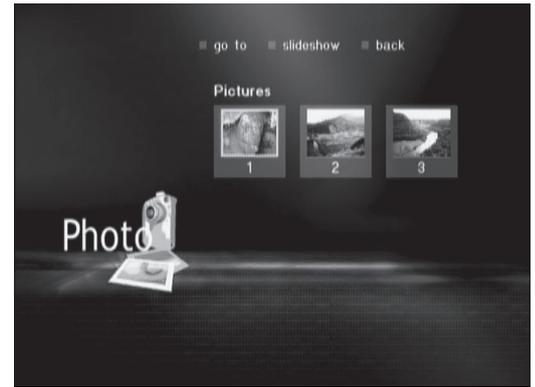

**Music Playback**

Press the '**Enter**' button to play a music file on LinkTheater. Press the '**Play**' button to play all of the music files in that directory as a playlist. The '**Pause**' button will pause music playback and the '**Play**' button will resume it. The '**Prev**' and '**Next**' buttons on the remote control will skip to the last or next song, and the '**Rew**' and '**FF**' buttons can be used to rewind and fast forward through a music file. The '**Stop**' button will stop playback altogether.

On the top of the display, there are four buttons:

**Go to** – Displays a prompt where the number corresponding to the music file can be entered for immediate playback. For instance, if the music file labeled 6 is to be played, pressing the '**Go to**' button and entering 6 will immediately begin music playback of the file labeled 6.
**Search** – Displays a search field to assist you in locating a specific file. Once at the search field, enter the title or any portion of the title into the field using the 10 key text entry of the remote control. Once completed, press the '**Search**' button. Once the search has completed, the matching results will be listed.
**Play all** – Plays all of the files inside of the current folder in alphabetical order.
**Back** – Jumps back to the previous location or folder.
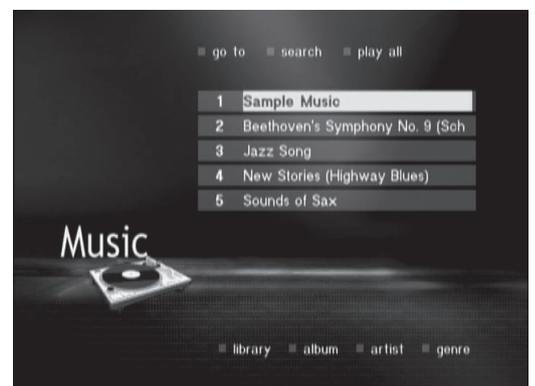
Music can be sorted by *library*, *album*, *artist*, or *genre* by using the four buttons at the bottom of the display. Navigate to bottom of the display with the remote control's directional pad.

If there are many files in a folder, you may be required to switch between pages. Pages can be switched by manually navigating to the arrows in the top right area of the display, or by pressing the '**Prev**' or '**Next**' buttons on the remote.

## Service

The *Service* portion of the LinkTheater PC Software allows you to do a number of different things. The PC with the LinkTheater PC Software installed on it will need to be connected to the internet for these features to work properly. The *Service* page has links for *RSS Directory*, *Web Bookmark*, *Music Radio*, *Podcast*, and *Yahoo Search*. Other links can be added to the services page with plugins. Navigate the display with the remote control's directional pad and press '**Enter**' to select a service.

## RSS Directory

The *RSS Directory* function shows your RSS feeds. Navigate through the list with the remote control's directional pad, then press the '**Enter**' button to select an RSS feed.

## Web Bookmark

The *Web Bookmark* function pulls your bookmarks from your web browser (Internet Explorer or Mozilla FireFox). Navigate to one of your folders or bookmarks and press the '**Enter**' button on the remote control. The web page for the book mark will then load on the display. The '**Return**' button on the remote control will return you back to the original bookmark list. From within a web page the remote control's directional pad may be used to navigate the page and to select hyperlinks. Pressing the '**Enter**' button on a hyperlink will bring up the linked web page on the display.
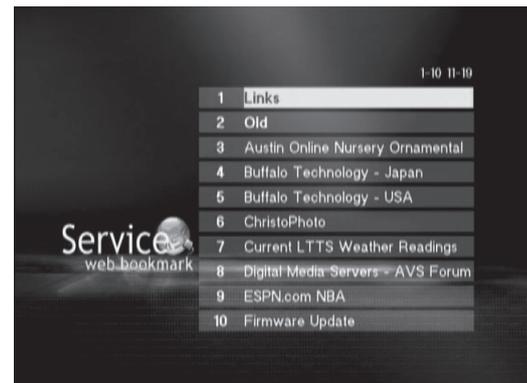
## Music Radio (Jazz)

The When you select Music Radio, you are taken to a list of Jazz radio stations. You may change to Rock or Pop stations by selecting from the icons at the top right of the page. The disk icon takes you to Pop stations and the guitar icon takes you to Rock stations. Selecting the horn brings you back to the Jazz page.

On the Jazz page, you may select from a list of Jazz stations. Press '**Enter**' to start a station playing. To stop a radio station from playing, press the '**Stop**' button on the remote control.

If there are many bookmarks or items in the folder, you may be required to switch between pages. Pages can be switched by manually navigating to the arrows in the top right area of the display or by using the '**Prev**' and '**Next**' buttons on the LinkTheater remote control.

To exit back to the main *Home* page, press the '**Home**' button on the remote control after all file playback has been stopped.

**Music Radio (Pop)**

The Pop page works exactly like the Jazz page. Select a station with the directional keys on your remote and press the '**Enter**' button to start it playing. You may change to Rock or Jazz stations by selecting the guitar or horn icons from the top right of the page.

**Music Radio (Rock)**

The Rock page works exactly like the Jazz and Pop pages. Select a station with the directional keys on your remote and press the '**Enter**' button to start it playing. You may change to Pop or Jazz stations by selecting the disk or horn icons from the top right of the page.

**Yahoo Search**

The *Yahoo Search* function lets you search the web. Use the alphanumeric keys on your remote to enter in the term you want to search for, and click the '**Enter**' button on your remote to begin your search. You may limit your search to *video*, *images*, or *news* by checking the appropriate box before searching.
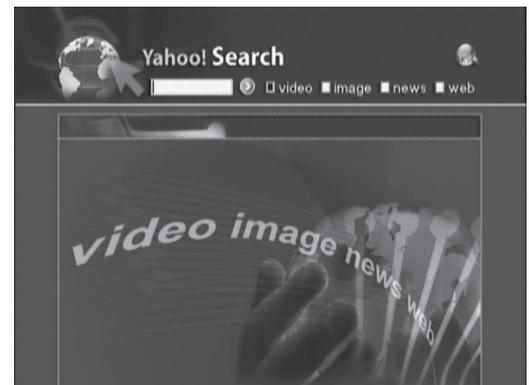
**Settings**

Some settings may be adjusted from the main LinkTheater PC Media Player page. Use the directional keypad to negotiate to the *Setting* link in the top right corner of the screen and click the '**Enter**' button on your remote.
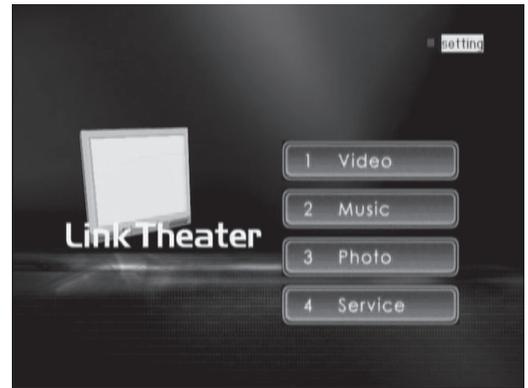


**Change your Settings**

If you have additional themes installed, you may select one here. You may select to play videos, music, and/or slides in random order, and you may choose how pictures are displayed:



*Fit to screen* - Proportions are maintained, but pictures are displayed as large as fits on your screen. This setting is recommended.
*Full screen* - Pictures are cropped as necessary to fill your screen completely.
*Actual size* - displays your pictures in their actual size, pixel for pixel. If your pictures are very small or very large, this may make them difficult to view.

Click '**Submit**' when changes are complete.
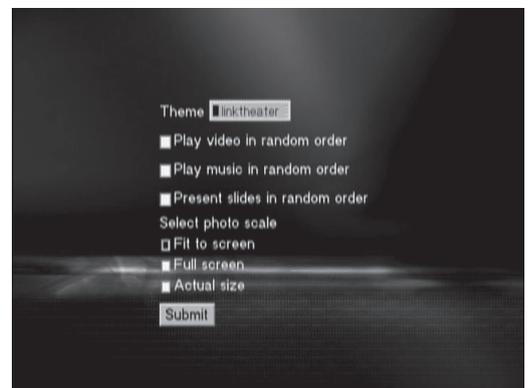
# Windows Media Connect Setup

Windows Media Connect is available only on Windows XP systems. It's Microsoft's software that streams multimedia content to devices like LinkTheater. Currently it is the only way to transmit DRM (Digital Rights Management) protected multimedia files from a PC to your LinkTheater. If you don't play DRM protected multimedia files, then setting up Windows Media Connect is not necessary. Windows Media Connect supports playback of DRM protected files that use the WinDRM codec, including files downloaded from **napster.com**, **walmart.com**, **movielink.com**, and **cinemanow.com**.

First determine whether or not Windows Media Connect is already installed on your Windows XP system. Open the *Control Panel* and look for *Windows Media Connect*. You may need to switch your Control Panel to '**Classic View**' to see the '**Windows Media Connect**' icon. Double-click on the '**Windows Media Connect**' icon to launch it.

If the icon is not present, you can download it from Microsoft's site by searching for *Windows Media Connect* or from *Microsoft's Windows Update* (**http://windowsupdate.microsoft.com**). After the installation, find the *Windows Media Connect* icon in *Control Panel* and double-click on it.
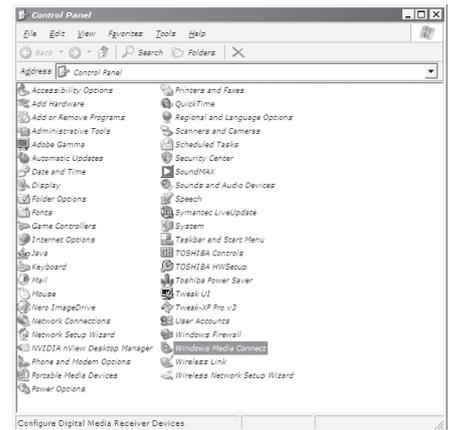
Windows Media Connect's software will appear in your system tray. Double-click on its icon to display the program.

Once *Windows Media Connect* is running and displayed on your screen, the *Devices* page will be displayed. The first step is to press the '**Add…**' button.
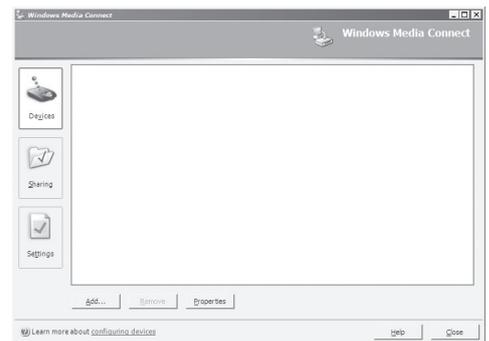
The Windows Media Connect Wizard will open. Select '**Device 1**' from the list and press the '**OK**' button. Then select '**Device 2**' from the list and press the '**OK**' button again. Repeat for all devices listed.

After all listed devices are activated, your Windows XP machine is ready to stream media to LinkTheater.
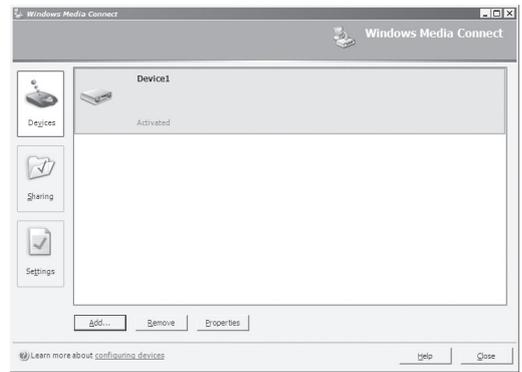
Press on the '**Sharing**' button on the left.
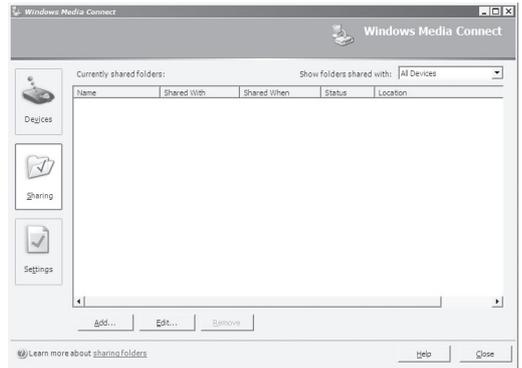
Press the '**Add**' button to specify a folder to share to LinkTheater.

Browse to a folder that contains data you would like to share with LinkTheater by pressing the '**Browse**' button. Give it a name that you would recognize and select the privacy settings that apply to your environment (the default values are acceptable in most cases). Press the '**OK**' button when finished. Press '**Yes**' if any dialog boxes appear.
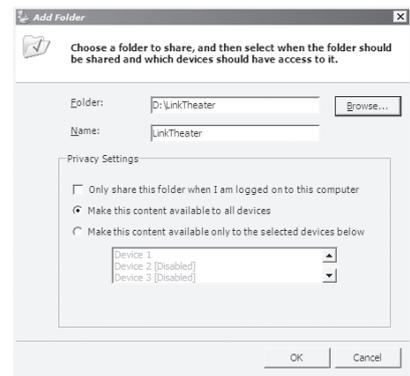
Add as many folders as you would like to share with your LinkTheater by repeating the previous steps as necessary.

Press on the '**Settings**' tab to the left.
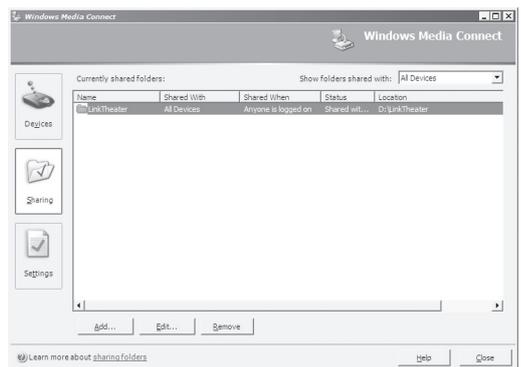
Recommended: check '**Automatically start folder sharing when Windows starts.**' This check box instructs *Windows Media Connect* to run every time Windows is started. If you prefer to launch *Windows Media Connect* manually from the *Control Panel* each time you want to use it from LinkTheater, you can leave the box unchecked. Press the '**Close**' button once you are finished.

Congratulations, *Windows Media Connect* is set up and running on your Windows XP PC!
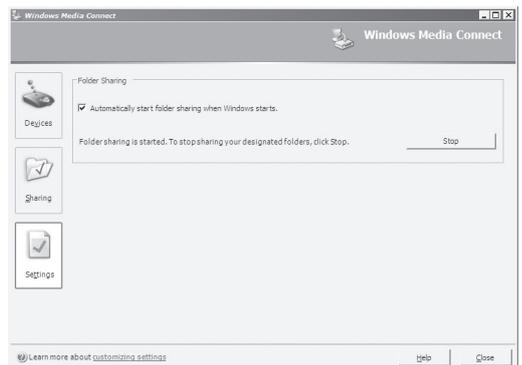
# Windows Media Connect Playback

Now that Windows Media Connect is installed on your Windows XP PC(s), you can access media files that reside in the Windows Media Connect shared folders.

Access your Windows Media Connect PC by pressing the '**Home**' button on the remote control. The *Home* page will appear and your computer will appear on LinkTheater's list of available media with the name *YOUR_ COMPUTER: Windows Media Connect* (where YOUR_COMPUTER is the machine name of your computer). Use the remote control's directional pad to select this name from the list and then press the '**Enter**' key on the remote control.
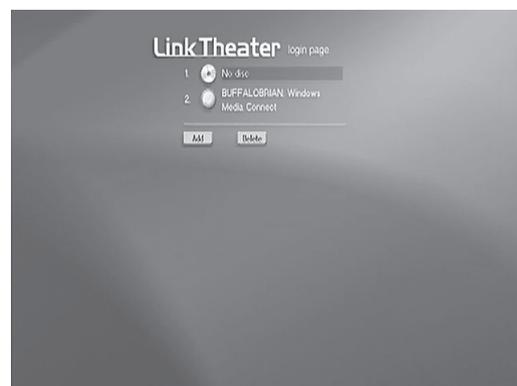


Your LinkTheater is now connected to the Windows Media Connect PC. Windows Media Connect organizes your multimedia files automatically and depending on your Windows Media Connect configuration, your screen may look different.

Using the remote control's directional pad, browse through the folders and subfolders to find the file you wish to view or play. Once you have located the file, press the '**Enter**' button to begin viewing or playing the file.



### Video Playback

Press the '**Enter**' button to play a video file on LinkTheater. During the video the '**Pause**' button will pause the video's playback (the '**Play**' button will resume the video). The '**Rew**' and '**FF**' buttons will rewind and fast forward the video. The '**Stop**' button will stop the video playback altogether.

### Photo Playback

Press the '**Enter**' button to display a photo on the LinkTheater. Press the '**Play**' button to play all of the photo files in that directory as a slide show. During the slide show the '**Pause**' button can be used to stop a slide show (the '**Play**' button will resume the slide show). The up and down arrows on the directional pad can also be used to change slides. The '**Stop**' button will stop the slide show. Additionally, the '**Angle**' button on the remote control will rotate an image or photo 90 degrees.

### Music Playback

Press the '**Enter**' button to play a music file on the LinkTheater. Press the '**Play**' button to play all of the music files in that directory as a playlist. The '**Pause**' button can be used to pause music playback (the '**Play**' button will resume the playback). The '**Prev**' and '**Next**' buttons on the remote control can be used to skip to the next song, and the '**Rew**' and '**FF**' buttons can be used to rewind and fast forward a music file. The '**Stop**' button can be used to stop playback altogether.

Windows Media Connect lists and organizes files automatically; there are often extra folders that must be entered before file playback can occur. There is no way to change or speed the process up, it is automatically sorted via Windows Media Connect.

To exit back to the main *Home* page, press the '**Home**' button on the remote control after all file playback has been stopped.

# Using LinkTheater to play CinemaNow files

Movies downloaded from CinemaNow© (www.cinimanow.com) are encoded with Microsoft's Digital Rights Management. You can play these on your LinkTheater, but keep the following in mind:

1) The LinkTheater streaming server software on your PC cannot play Microsoft DRM encoded files. You will need to use Microsoft's Windows Media Connect software to play these files.

2) Microsoft's Windows Media Connect must be installed and running on the PC that the movie was downloaded onto, and the LinkTheater must be activated in the Windows Media Connect Software. (See pages 39 - 41.)

3) The movie must complete downloading before it can be played on the LinkTheater. Windows Media Connect does not support partially downloaded files at this time.

Begin by selecting a movie to download. Many movies at CinemaNow will offer options to "watch" (stream the movie), to buy, to download, or to rent the file. Windows Media Connect doesn't support streaming, so selecting "watch" will not give you a file that LinkTheater can play. Make sure that you '**download**', '**rent**', or '**buy**' the movie if you want to watch the movie with your LinkTheater.

In this example, you have a choice of renting a 700kbs or 1500kbs version of the movie. Larger file sizes will often offer higher quality video, but will take longer to download.
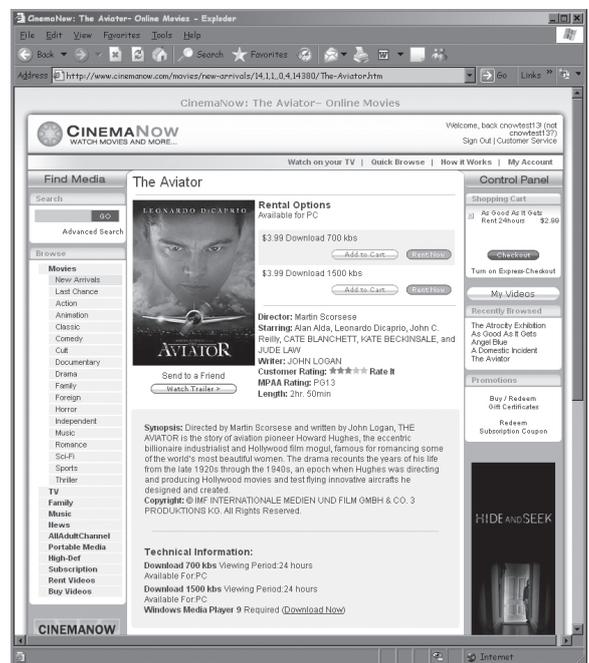


After you pay for your movie, you'll get this download screen. Do not close this window until the download is complete. The movie must be completely downloaded to your PC before Windows Media Connect will allow it to be played on your LinkTheater.

On your LinkTheater's Home screen, you'll see two different entries with the name of your PC.  Choose the one labled "Windows Media Connect".



Click on '**Video**',



then '**All Video**',



and finally, choose your new movie from the list of movies in your media folder.



It will take several seconds for the buffer to load.



Enjoy your movie!

,
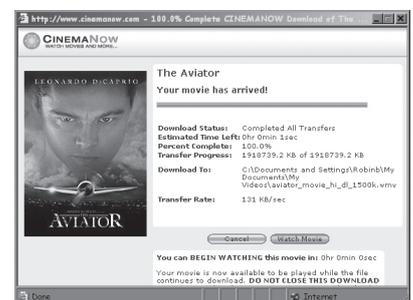
# Installing LinkTheater software on your Macintosh

Insert the LinkTheater disk in your Macintosh. An icon of a CD will appear on your desktop. Double-click the *LinkTheater* icon.

The LinkTheater folder will open. Double-click on the *linktheaterx-mac.dmp* icon.

The LinkTheater Installer will appear.

Open your *Applications* folder by choosing *Go/Applications*. Drag the *LinkTheater* icon into your Applications folder.

Open your *Home* folder by choosing *Go/Home*.  In the Home folder window, you'll see the *Library* folder.  Drag *Media Service Plugins* into the *Library* folder.
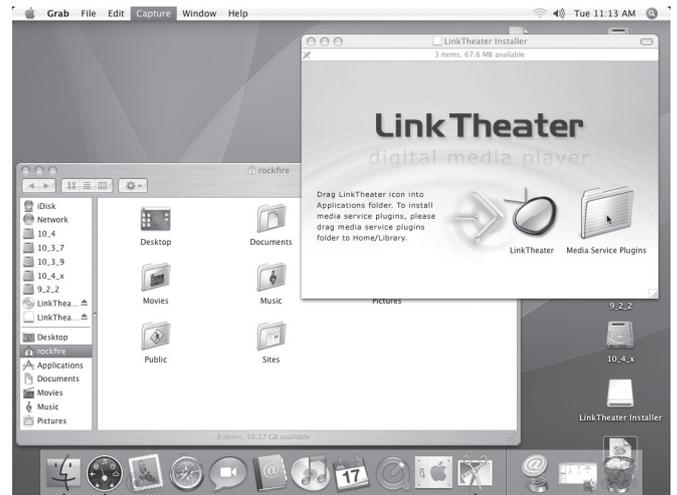


Congratulations!  Your media files are now accessible from your LinkTheater.

# LinkStation
# with LinkTheater

Buffalo's LinkStation Network Storage Center can easily stream files to LinkTheater to be played. If you don't have a Buffalo LinkStation or do not wish to playback files from your Buffalo LinkStation, then please skip to the next section.

For LinkStation to stream multimedia files to the LinkTheater, a LinkStation firmware that supports '**PCast**' is required. Some older LinkStations may not contain a firmware that supports '**PCast**'. If that is the case then please proceed with updating the LinkStation's firmware (instructions below). If you are unsure of whether your LinkStation supports '**PCast**', then please follow the following instructions.

Login to your LinkStation's Web Based Configuration. This is typically done by typing **http://NAME-OF-LINKSTATION** into your web browser (where NAME-OF-LINKSTATION is the name you gave your LinkStation during setup). A login prompt will appear asking you for user credentials to login to your LinkStation. If your LinkStation cannot be found, please consult the documentation that came with LinkStation or contact our free 24x7 Technical Support.

At the login prompt, enter the proper username and password. The username is always root and there is no password by default. However, if you set up a password during your initial LinkStation setup, then you must enter it in the password field. Once the proper information has been entered, press the '**OK**' button.
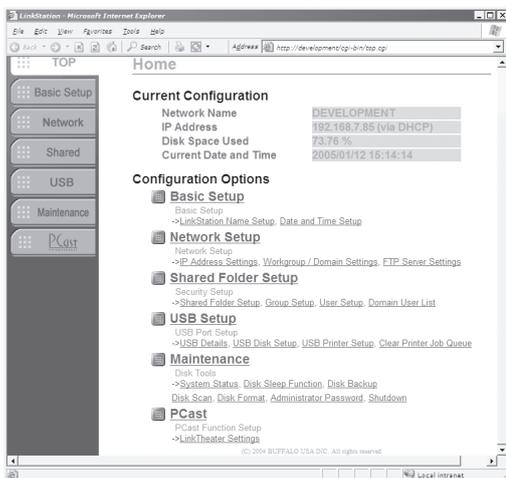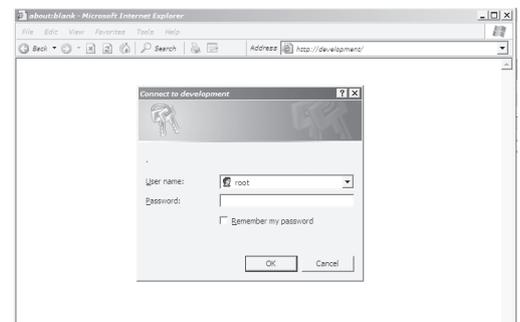
Once logged in, the main LinkStation configuration page will appear. At the bottom of the page there may be a PCast configuration area. If there is a configuration area named '**PCast**', then you do not need the firmware update and you can skip the firmware update procedure and continue to the '**Configuration of LinkStation**' section. If no '**PCast**' configuration area exists, then you will need to follow the next step, upgrading the firmware.

## Upgrading LinkStation's Firmware to Support PCast

Power cycle your LinkStation by holding the power button down until the POWER lamp begins to blink. Once the POWER lamp stops blinking the device is off. Please wait 5 seconds and then press the power button. The POWER lamp will begin to blink again signifying the startup process. Once the POWER lamp becomes solid, LinkStation has successfully restarted.

Insert the Buffalo LinkTheater CD into your PC's CD-ROM drive. The CD should auto-launch and bring up an on-screen menu. If the CD doesn't launch automatically, click on 'Start', select 'Run . . .', and type **D:\setup.exe** (where D is the drive letter of your CD-ROM).

Once the *Easy Setup Wizard* has launched, select the '**Upgrade LinkStation Firmware**' option. Press '**OK**'.
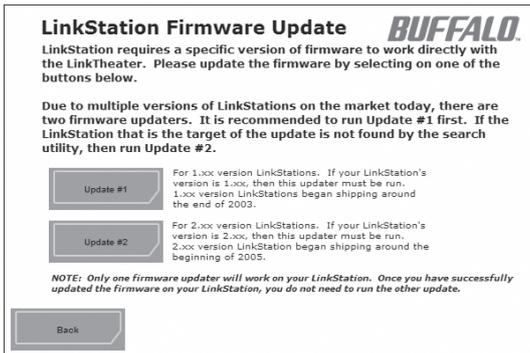


The LinkTheater update menu will appear. There are 2 different updates available for LinkStations. Only the correct update program will work, so if you don't know which to use, try Update #1. If it doesn't work, then you know Update #2 is the right one for you.

**Update #1** – Updater for version 1.xx LinkStations. 1.xx LinkStations shipped from late 2003 until early 2005.
**Update #2** – Updater for version 2.xx LinkStations. 2.xx LinkStations started shipping in early 2005.



When you press an update button, the update program will begin by searching for available LinkStations on your network. Update #1 will only find 1.xx version LinkStations while Update #2 will only find 2.xx version LinkStations. Thus, if the first updater you try does not find your LinkStation, then simply exit the updater and use the other updater.

Once the proper updater has been selected, the updater will find all of the available LinkStations on your network. If more than one LinkStation resides on your network, then please select the appropriate LinkStation from the pull down menu. Once the proper LinkStation has been selected, press the **'Renew Firmware'** button.
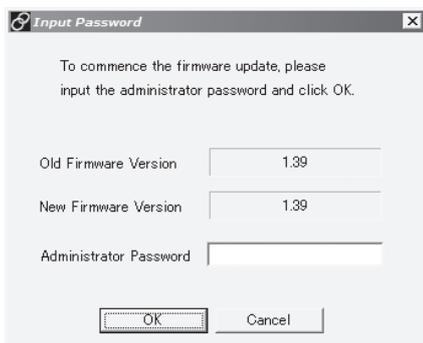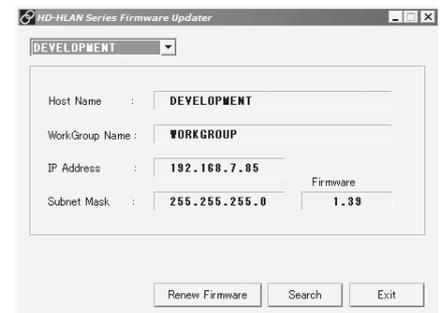




A status screen will appear showing the current version of your LinkStation's firmware and the new version that this firmware update will install. If you've set an administrator password on your LinkStation, enter it into the '**Administrator Password**' field. If no password was set, leave the password field blank. Press the '**OK**' button when you are finished.

The firmware update process will take 3-5 minutes and you will be greeted by a dialog box informing you when the firmware update has completed. If you have any problems updating the firmware, please contact our free 24x7 Technical Support.

**Configuration of LinkStation**

Login to your LinkStation's Web Based Configuration tool. This is typically done by typing **http://NAME-OF-LINKSTATION** into your web browser (where NAME-OF-LINKSTATION is the name you gave LinkStation during setup). A login prompt will appear asking you for user credentials to login to your LinkStation. Enter your account name and password.

Once logged into the main configuration page, click on the '**LinkTheater Settings**' option at the bottom of the main page (highlighted in the figure to right).
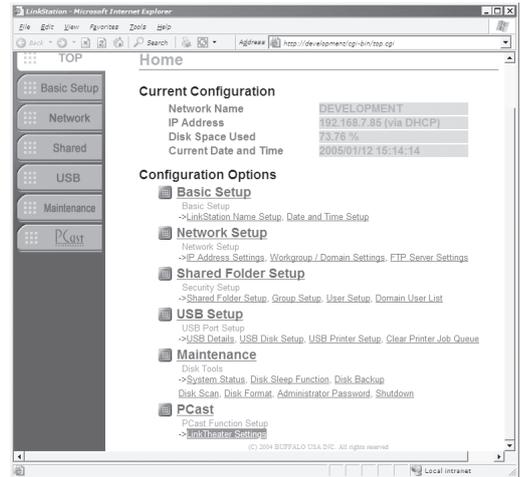
This will take you to the *LinkTheater Settings page*, where you can configure the following options:

**Media Server Function:** '**Enable**' or '**Disable**' the ability of your LinkTheater to play back files from this LinkStation.

**Media Folder:** Select the share or folder from the pull down menu that will be shared from this LinkStation to your LinkTheater(s). Only one folder or share can be selected on a LinkStation. Please select a folder that contains all of the files and subfolders you desire LinkStation to share with LinkTheater.

**Media Server Password:** If enabled, you will be required to enter a password to stream files from this LinkStation to LinkTheater. Enter a password twice if you enable this.

Once you have finished making changes, press the '**Apply**' button to store the new settings on LinkStation. You may now close the Web Browser used for configuring the LinkStation.

The LinkStation supports *UPnP*, therefore, the next time you start LinkTheater this LinkStation will automatically appear on the Home screen ready for you to stream multimedia files from. Pressing the '**REFRESH**' button on the remote control from the Home page will show the LinkStation without restarting LinkTheater.

# TeraStation with LinkTheater

If you have a TeraStation in your network, you can easily access it from your LinkTheater.  To do this, you need to enable *PCast* on the TeraStation.

Begin by opening your TeraStation's Web Based Configuration Tool.  You can do this by typing http://TERASTATIONNAME into your web browser, or by opening your *TeraStation Client Utility* and choosing *Setup*, then *Browser Management* from the drop-down menues.



Enter your password and click '**OK**'.



From the menu on the left side, click on '**PCast**'.
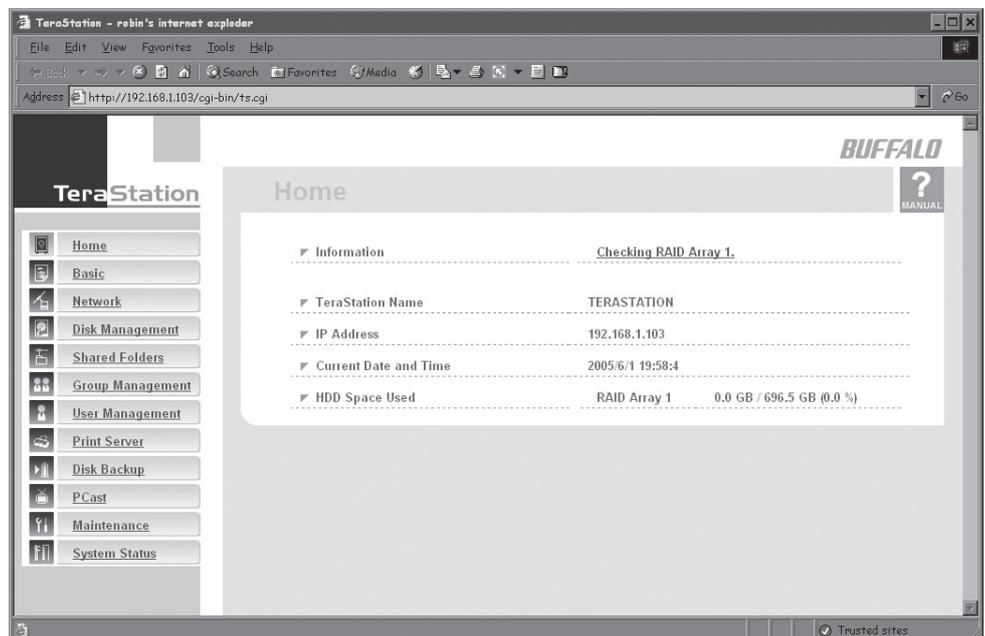
**PCast Settings:**

• '**Enable**' PCast Media Server.
• Select the folder on your TeraStation that you keep your media in.  If in doubt, just select *share* here.
• '**Enable**' or '**Disable**' password protection on your media folder.  If you enable password protection, enter a password into the next two fields.
• Click '**Apply**'.
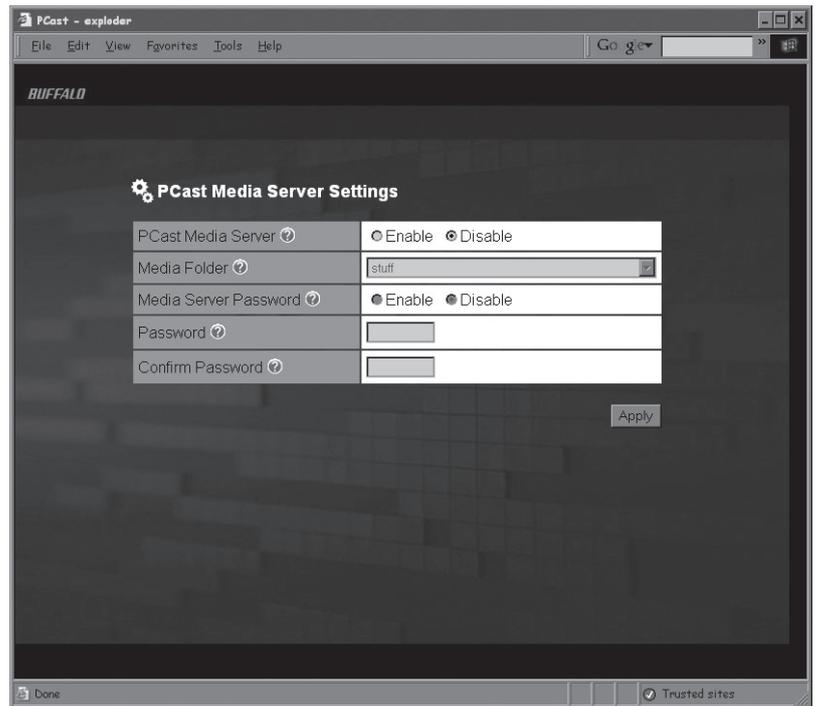


Your TeraStation is now set up to share media with LinkTheater!

# Playback with LinkStation or TeraStation

Now that your LinkStation or TeraStation has been configured with PCast support, you'll be able to stream media files to LinkTheater.

Access your LinkStation or TeraStation by pressing the '**Home**' button on the remote control. The Home page will appear and a new device will automatically appear on the display or TV. The friendly name of your LinkStation or TeraStation will appear. Use the remote control's directional pad to select the friendly name and press the '**Enter**' key on the remote control.

Once you have logged in, the *Media Server* will start. Just select the type of media you wish to play. Additionally, the '**Video**', '**Music**', and '**Photo**' buttons on the remote can be used to select the media type at any time while browsing.
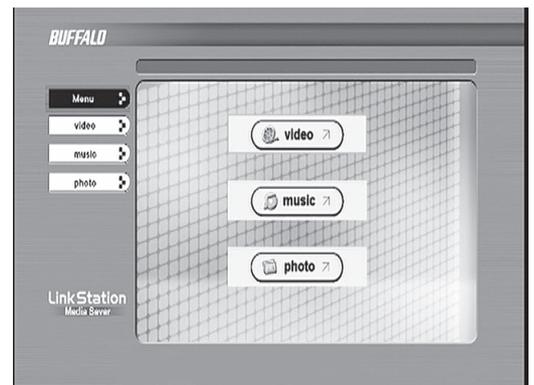
## Video Playback

Press the '**Enter**' button to play a video file from your LinkTheater or TeraStation. During the video the '**Pause**' button will pause the video's playback (the '**Play**' button will resume the video). The '**Rew**' and '**FF**' buttons will rewind and fast forward the video. The '**Stop**' button will stop the video playback altogether.

On the top of the Media Server display, there are three buttons:

**Play all** – Plays all of the files inside of the current folder in alphabetical order.
**Play randomly** – Plays all of the files inside of the current folder in random order.
**Back** – Jumps back to the previous location or folder.
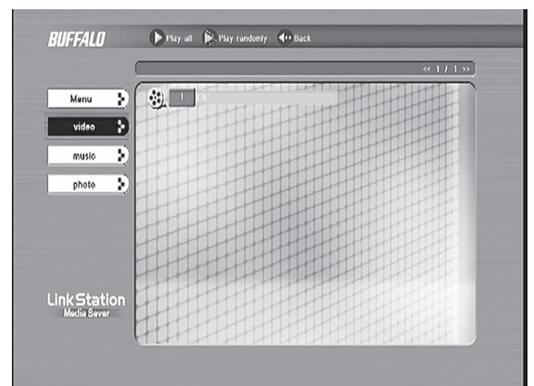
If there are several files in the folder, you may be required to switch between pages. Pages can be switched by manually navigating to the arrows in the top right area of the Media Server display. Alternatively, the '**Prev**' or '**Next**' buttons on the remote will change pages.

**Photo Playback**

Press the '**Enter**' button to display a photo on the LinkTheater.  Press the '**Play**' button to play all of the photo files in that directory as a slide show.  During the slide show the '**Pause**' button can be used to stop a slide show (the '**Play**' button will resume the slide show).  The up and down arrows on the directional pad can also be used to change slides.  The '**Stop**' button will stop the slide show.  Additionally, the '**ANGLE**' button on the remote control will rotate an image or photo 90 degrees.

On the top of the LinkStation Media Server display, there are three buttons:
**Slide show** – Displays all of the images inside of the current folder in an alphabetical slide show.
**Play randomly** – Displays all of the images inside of the current folder in a random slide show.
**Back** – Jumps back to the previous location or folder.

If there are several files in the folder, you may be required to switch between pages.  Pages can be switched by manually navigating to the arrows in the top right area of the LinkStation Media Server display.  Alternatively, the '**Prev**' or '**Next**' buttons on the remote will change pages.

**Music Playback**

Press the '**Enter**' button to play a music file on the LinkTheater.  Press the '**Play**' button to play all of the music files in that directory as a playlist.  The '**Pause**' button can be used to pause music playback (the '**Play**' button will resume the playback).  The '**Prev**' and '**Next**' buttons on the remote control can be used to skip to the next song, and the '**Rew**' and '**FF**' buttons can be used to rewind and fast forward a music file.  The '**Stop**' button can be used to stop playback altogether.

On the top of the LinkStation Media Server display, there are three buttons:
**Play all** – Plays all of the files inside of the current folder in alphabetical order.
**Play randomly** – Plays all of the files inside of the current folder in random order.
**Back** – Jumps back to the previous location or folder.

If there are several files in the folder, you may be required to switch between pages.  Pages can be switched by manually navigating to the arrows in the top right area of the LinkStation Media Server display.  Alternatively, the '**Prev**' or '**Next**' buttons on the remote will change pages.

To exit back to the main Home page, press the '**Home**' button on the remote control after all file playback has been stopped.

# Future Capabilities

Updates for the LinkTheater are planned for the near future. Please check the Buffalo Technology web site (**http://www.buffalotech.com**) to determine if new updates are available for LinkTheater. Here are some of the planned upgrades:

- More audio and video codec support
- More DRM-protected content playback
- Direct downloading/streaming of content directly through LinkTheater
- Partenerships with leading content providers to make the LinkTheater experience easier and more entertaining
- Third party custom applications, such as ITunes Top 10, News Today, Movie Store, Music Store, etc.

# Troubleshooting

The troubleshooting section answers some Frequent Asked Questions (FAQ).  If problems still persist, please contact our free 24x7 technical support.

**Q:**  What file formats can I use with LinkTheater?
**A:**  LinkTheater is able to play the following type of files:

**Video Files** - dat, mpg, mpe, mpeg, m2v, m1v, vob, avi, asf, divx, xvid, rmp4, mov, mp4, vro, m4v, m2p, hnl, wmv, wmv hd, divx hd
**Audio Files** - mp3, mp2, ogg, wav, aac, wma, pls, m4a, ac3, mp1, mpa, asf, m3u
**Picture Files** - jpg, gif, bmp, tif, png


**Q:**  I can't access the LinkTheater PC software from LinkTheater!
**A:**  Check the following:
1.  Check Computer – Check that your computer is on and is not in "sleep" mode.
2.  Check the path settings for media content – Confirm that you have placed your media content in the correct folders you have assigned in the preferences of the LinkTheater PC software.
3.  Check computer's connection on the Home network – Ensure that your computer is physically onnected to your Home network (or wirelessly connected).  If your Home network includes a shared internet connection, check your computer's connection by trying to browse to the internet.
4.  Check LinkTheater's connection on the Home network – Ensure that LinkTheater is connected to the Home network.  This can be done by checking if a proper IP Address has been assigned to LinkTheater (IP Address tab of LinkTheater's main settings).
5.  Check that the LinkTheater PC software is running – Check that the LinkTheater PC software is running on your computer.  Check for the icon running in the system tray.
6.  Check network security/firewall software – Some network security or firewall software may prevent the LinkTheater PC software from operating properly.  Try disabling the network security/firewall software.
7.  Check that you're logged into your Windows PC – If your computer is running Windows 2000 or Windows XP, make sure you have signed in.


**Q:**  I can't hear any sound from LinkTheater!
**A:**  Check the following:

1.  Check the volume and power to the speakers – Make sure that your television or sound system is powered on, and that the volume is at an acceptable level.  Some sound systems allow you to choose the speakers to use for output.  Please ensure the correct speakers are selected.
2.  Check connections – If LinkTheater is connected to any stereo or home entertainment equipment, please check that the cables are connected properly and firmly.
3.  the video and/or song file – Make sure that the content you are playing has working audio.  Test the content for audio playback on your PC.  Also, make sure the audio format used is supported by LinkTheater.


**Q:**  I don't see any video, music, or photos on the LinkTheater!
**A:**  Check the following:
1.  Check that video, audio, or photo content is available on the resource you are accessing.
2.  Check that the video, audio, or photo file is playable on your PC.
3.  Check that the LinkTheater PC Software is configured properly and that the multimedia content is residing in the configured library and watch folders.

**Q:** I changed some of the video, music, or photo content on a resource; why can't I see the changes on LinkTheater?

**A:** Press the "Refresh" button on the remote control to refresh the page. Also, try toggling the video, music, or photo buttons on the remote control.


**Q:** Why does LinkTheater respond slowly when I watch a movie, browse photos, or listen to music?

**A:** Check the following:

1. Publish multiple folders – If there are a large number of files in a folder, navigating through the folder may be slow. Try creating more folders with less content in each folder.

2. Remove unusable files – Move files that are known not to be media content. Non-supported file formats may not be seen on LinkTheater but they are still processed and filtered by LinkTheater, slowing down response times.

3. PC performance – Try installing the software on a faster PC if available.

# Technical Specifications

## Product Specifications

| | |
|---|---|
| Supporting OS | Win. Me, 2000 Professional, XP Home and Professional |
| Package Contents | LinkTheater, Video/Analog Audio Cable (about 150cm), LAN cable (about 180cm), Power cable (about 180cm), Installation Manual, Utility CD-ROM, Remote Control, 2 Batteries (AAA) |
| Driver and Utilities | Media Server Software |
| Power Source | AC100-240 Volt 50/60 Hz |
| The Actual Product Cycling Voltage | 5 V , 12 V |
| Power Consumption | Max. 25 W (at Standby 1 W) |
| Dimensions | 420 x 50 x 265 mm |
| Weight | About 2.7 kg |
| Warranty | 1-year warranty |
| Acquired Regulations | UL, FCC, CE, PSE, VCCI ClassBP |
| Multi-Format Playback (Playable Disc Types) | DVD-R/RW, DVD+R/RW, DVD-ROM, CD-R/RW, CD-ROM |
| Content Formats | Disc Contents Formats (Media): DVD-Video, Video CD, Super Video CD, Audio CD (CD-DA)<br>File/Contents Formats (Media):<br>   Digital Audio File Formats: MP3, WMA, Ogg, WAV (non-compiled)<br>   Picture File Formats: JPEG, GIF, TIF, BMP, PNG<br>   AVI File Formats: DivX (Ver. 3.11.4.5), RMP4, XviD+MP3/AC3<br>   Video File Formats: MPEG-1, MPEG-2, WindowsMediaVideo9 |
| Video Formats | Digital Video Compression Formats:<br>   MPEG-2 (DVD-Video, Super Video CD, *.MPG file) –<br>     Max. Bit Rate: 15Mbps, Frame Rate: Max. 30fps<br>   MPEG-1 (Video CD, *.DAT file) – Max. Bit Rate: 15Mbps, Frame Rate: Max. 30fps<br>   MPEG-4 (*.AVI file, *.MP4 file) – Max. Bit Rate: 4Mbps (DivX), 5Mbps (RMP4), 8Mbps (XviD),<br>     Frame Rate: Max. 30fps<br>   Windows Media Video (*.WMV file, *.ASF file) – Max. Bit Rate: 8Mbps,<br>     Frame Rate: Max. 30fps<br>Digital Audio Compression Formats:<br>   Dolby Digital (AC-3) Multi-Channel (Digital Output Only, No Decoding Feature)<br>   DTS Multi-Channel (Digital Output Only, No Decoding Feature)<br>   MPEG-1 Audio Layer 1       2 Channel<br>   MPEG-1 Audio Layer 2       Multi-Channel<br>   MPEG-1 Audio Layer 3       2 Channel<br>   MPEG-4 AAC (Low Complexty)   5.1 Channel<br>   Windows Media Audio 9 (HD)   2 Channel<br>Digital Audio Non-Compression Formats:<br>   Renear PCM           2 Channel, (S/P DIF) 16/20/24 bit, 44.1/48/96kHz |
| Audio Formats | CD-DA, Renear PCM (*.WAV), Ogg Vorbis (*.OGG), MPEG-1 Audio Layer-3 (*.MP3), Windows Media Audio (*.WMA), MPEG4-AAC (*.M4A) |
| Picture Formats | JPEG (Baseline JPEG only), GIF, TIFF, BMP, PNG |
| File Extensions | Video Files - dat, mpg, mpe, mpeg, m2v, m1v, vob, avi, divx, xvid, rmp4, mov, mp4, vro, m4v, m2p, (in network mode) hnl, wmv<br>Audio Files - mp3, mp2, ogg, wav, aac, wma, pls, m4a, ac3, mp1, mpa, asf<br>Picture Files - jpg, gif, bmp, tif, png |
| File Extensions (via LinkStation) | Video Files - dat, mpg, mpe, mpeg, m2v, m1v, vob, avi,divx, xvid, rmp4,mov, mp4, vro, m4v, m2p,hnl, wmv<br>Audio Files - mp3, mp4, ogg, wav, aac, wma, ac3, m4a, aac, asf<br>Picture Files - jpg, gif |
| Video Output Signals | DA Converter – 12bit/54 MHz<br>Composite Video – 1.0Vp-p / 75 Ω<br>S Video – Y Output: 0.7Vp-p / 75 Ω; C Output: 0.3Vp-p / 75 Ω<br>Progressive/Scan – Y Output: 1.0Vp-p / 75 Ω; Pb Output: 0.7Vp-p / 75 Ω;<br>Pr Output: 0.7Vp-p / 75 Ω |

## Product Specifications continued

| Audio Output Signals | DA Converter – 24bit/192 MHz | |
|---|---|---|
| | Signal Noise | ≥90 dB (1kHz) |
| | Dynamic Range | ≥80 dB (1kHz) |
| | Mixed Noise | ≥80 dB (1kHz) |
| | Crack/Noise | ≥-65 dB (1kHz) |
| Rear Panel Input/Output | Video Output, S-Video Output, Component Video Output (Progressive Scan), D4 Video Output, Composite Audio Output, Composite Video Output, Digital Audio Output, Digital Coaxial Audio Output, Ethernet Port (100 Base-TX / 10Base-T), AC Adapter Input | |

## Network Interface (Wired)

| Interface | (10BASE-T) IEEE802.3, (10BASE-TX) IEEE802.3u |
|---|---|
| Supporting Protocol | TCP/IP (HTTP) Setup Features, AppleTalk |
| Connector Type | RJ-45 8 pin (NIC mode) x 1 |
| Access Method | CSMA/CD |
| Transfer Rate | (Auto Sensing) 10 Mbps 100 Mbps |

## Network Interface (Wireless)

| Standards | IEEE802.11g/IEEE802.11b; ARIB STD-T66 |
|---|---|
| Frequency | 2,412 - 2,472 MHz (11channel) |
| Data Transfer Rate | 6, 9, 12, 18, 24, 36, 48, 54 Mbps (IEEE802.11g); 1, 2, 5.5, 11 Mbps (IEEE802.11b) |
| Access Method | Infrastructure Mode |
| Antenna Internal | Diversity Antennas x 2 |
| AOSS Technology | AOSS button x 1 (on the front panel) |
| Security | WEP 128 (104) / 64 (40) bit (Security can be set up by AOSS technology when you have a Buffalo AOSS enabled router or access point.) |

## USB Interface

| Interface | USB2.0/1.1 |
|---|---|
| Controller | VIA VT6212L |
| Data Transfer Speed | 480 Mbps |
| Connector Type | Series A x 1 (Front x 1) |

## DVD-ROM

| Interface | ATAPI |
|---|---|