Leviton Entertainment & Applications Platform

User Guide

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Document Version: 1.0 (March 2005)

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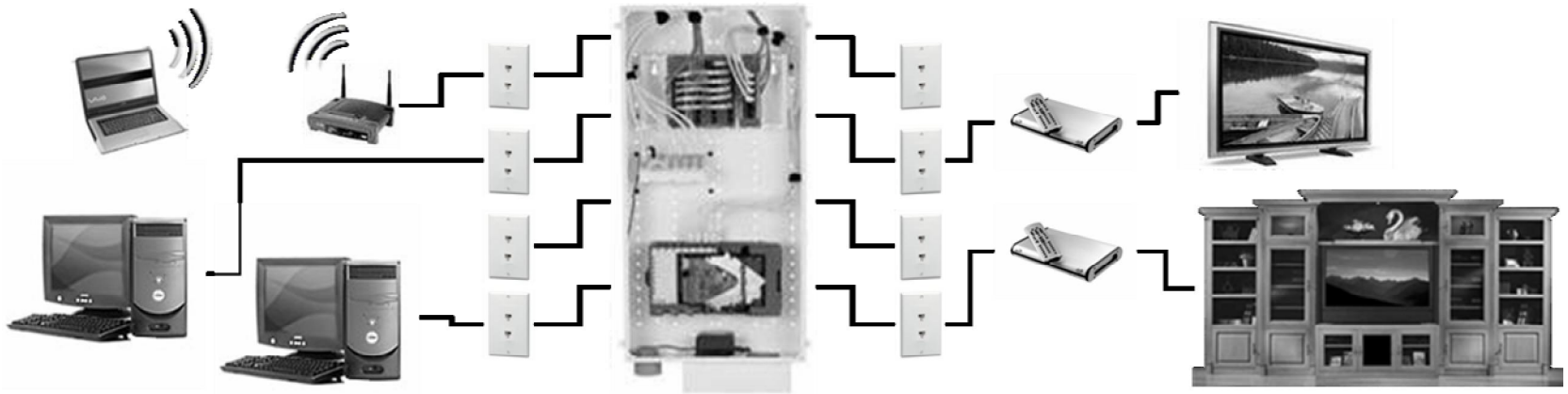
Getting Started

Congratulations on the purchase of your Leviton Entertainment & Applications Platform. Your system has been professionally installed and configured. Read this section to review the features and capabilities of your system and begin enjoying your digital music, video, and photos.

Your Leviton Entertainment & Applications Platform serves as your home's central networking point. It provides the convenience and security of a private home network for sharing music, video, and photos. It also provides access throughout your home to printers and other equipment, files, and the Internet.



Platform Overview

Components

Digital Distribution Center

The Digital Distribution Center was installed as part of your structured cabling system. It provides storage of digital music, photos, and video in a central media library. The media server provides a convenient way to distribute your digital content to televisions and stereos. On the networking side, the Digital Distribution Center functions as a multi-port switch to conveniently network PCs, printers, and other equipment throughout the home. It also operates as an Internet gateway with firewall protection.

Digital Distribution Center

Digital Player

The Digital Player acts as a bridge between the Digital Distribution Center and your audio/video components such as stereo systems, entertainment centers, televisions, and more. Each Digital Player is connected to these components with standard audio/video cabling. The Digital Player makes use of the home's structured cabling systems to communicate with the Digital Distribution Center over high-performance Ethernet (Cat 5e). The Digital Player retrieves the stored digital content and delivers it to your connected components.

Digital Player & Remote

Remote Control

The remote control allows you to navigate with menus displayed on your television. These menus make searching, retrieving, and viewing or listening to your digital content—music, photos, or video files—as easy as using a television. The remote control allows you to browse and play or view your entire collection of music, video and photography through easy-to-navigate onscreen menus.

Note: Your system integrator may have provided a separate universal remote. In this case, the functions of the included remote control have been programmed to the universal remote.

Capabilities

Your Digital Distribution Center activates your home's wired infrastructure, and enables an innovative whole-house digital entertainment system today. It also provides a platform for future entertainment, home automation, communications, or other applications. With the Digital Distribution Center, you can:

- Store thousands of digital songs, videos, and photos in one central media library by copying files from your PC to the Digital Distribution Center.
- Enjoy music, videos, and photos in your home, when and where you want.
- Organize your music with the power of Gracenote CDDB® Music Recognition Service, the largest most comprehensive database of music information in the world.
- Listen to different songs in eight different rooms simultaneously—MP3, WMA, and WAV music formats.
- Watch four different videos in four different rooms simultaneously—MPEG1, MPEG 2, and MPEG 4 video formats.
- View individual photos or view photos in a slideshow with music—JPEG, BMP photo formats.
- Share Internet access, files, printers, and computer peripherals throughout your home, with the convenience and security of your own private home network.
- Protect your home network against unauthorized access with the built-in, commercial-grade firewall.
- Expand its capabilities over the Internet by downloading software updates or new applications.

Installation

Your system has been professionally installed and is ready for use. While some installations include the transfer of digital music, video, and photos from the personal computers in your home to the Digital Distribution Center, you may have elected to complete this process yourself. For instructions on how to import digital music, video, and photos to the Digital Distribution Center, see "Using Media Manager Software" on page 21.

Using the Remote

The Digital Player acts as a bridge between your audio/video components and the Digital Distribution Center's media library. The Digital Player gives you access to your music, video, and photos. The remote control allows you to navigate the onscreen menus on your television.

POWER	Power the Digital Player on or off.
MUTE	Mute the sound on the TV or stereo.
0-9	Input numbers and letters.
CAPS NUM	Reserved for future function
*	Reserved for future function
MUSIC	Quick link to Music menu.
PHOTOS	Quick link to Photos menu.
VIDEO	Quick link to Video menu.
SELECT	Make a selection.
ARROWS	Move through menus.
CAMERAS	Quick link to Cameras menu (reserved for future function)
DISPLAY	View or remove the display information.
HOME	Quick link to the Home menu.
PG UP, PG DN	Move to top or bottom of page.
REW	Rewind the selection being played.
PLAY	Play a selection.
FF	Forward the selection being played.
PREV	Go to previous item.
PAUSE	Pause selection being played.
NEXT	Go to next item.
REPEAT	Repeat selections.
STOP	Stop the selection being played.
RANDOM	Set random play of selections.
ZONES	Quick link to zone options.
SET UP / EDIT	Quick link to setup and edit menus.

Understanding Your Options

You can use the remote control to browse through menus on your television screen. As you navigate, your television may show some of your options at the bottom of the screen. For instance, as you browse through your music, you may see something like this:

```
press > to view music library. press SETUP for system options.
```

These are intended to help you navigate through the menus. The options listed on the screen are not the only ones available to you.

You can use the ▲ arrow, ▼ arrow, PG UP, and PG DN on the remote to navigate through the menu options. The highlight bar shows you the current option. There are also symbols in the highlight bar to show you other buttons on the remote that are available. These symbols may be on the left or right side.

- ◀ left-arrow to go back to the higher-level menu
- ▶ right-arrow to go into the next lower-level menu or play the highlighted item
- ▲ arrow, ▼ arrow, PG UP, or PG DN to move the highlight bar
- play music, photos, or video
- SELECT to choose the highlighted item

Press the DISPLAY button for additional information about the song, photo, or video that is currently playing. Press the DISPLAY button again to remove the display bar.

Entering Text

The alphabet is shown with the number buttons on the remote control. These buttons can be used to enter text when needed. To enter a particular character, you may need to press a button several times in a row. The number button cycles to the next available character each time it is pressed. After you have entered the character you want, you can pause before going on to the next character.

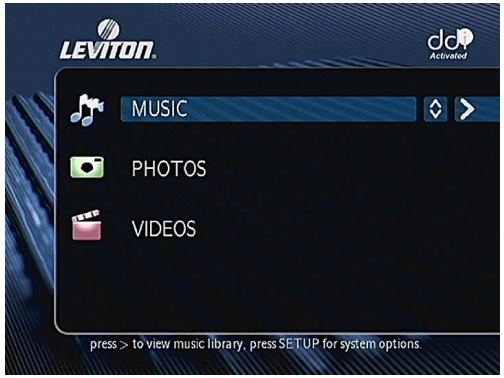
1	2	3
1 @ & / ( ) :	a b c 2 A B C	d e f 3 D E F
4	**5**	**6**
g h I 4 G H I	j k l 5 J K L	m n o 6 M N O
7	**8**	**9**
p q r s 7 P Q R S	t u v 8 T U V	w x y z 9 W X Y Z
	0	
	0 . , ' ? ! -	

Press the ▲ arrow or ◀ arrow on the remote to delete, and the ▶ arrow or ▼ arrow to add a space. When you are finished entering your text, press the SELECT button.

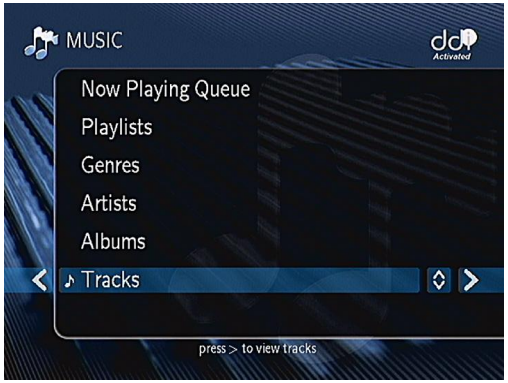
Listen to Music

Turn on your television, and set it to display from the input ports to which your Digital Player is connected. Turn on your stereo and set it to the input ports to which your Digital Player is connected. See the documentation that came with your television or stereo for more information.

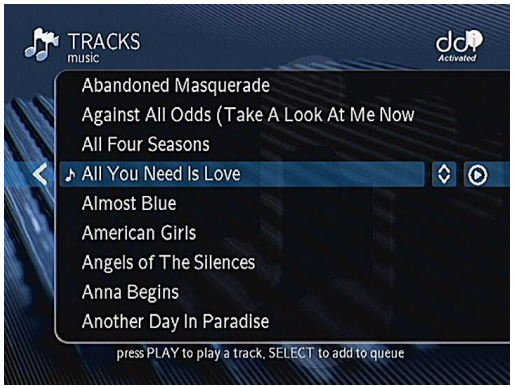
Use the remote to browse for a song. Press the SELECT or PLAY button and enjoy!



❶ **Press ▸ to view music library**



❷ **Press ▸ to view tracks**



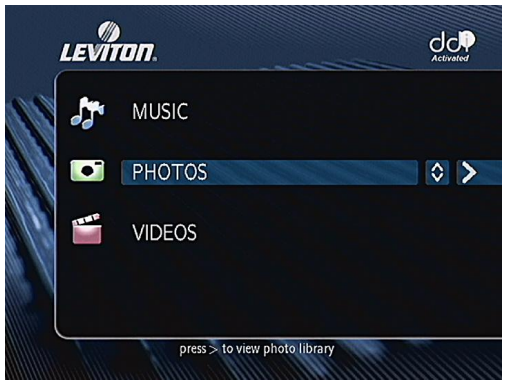
❸ **Press SELECT to play**

To stop your selection, press the STOP button on the remote. To learn about creating your own playlist, adding multiple songs to the music queue, or other features available in Music, see “ Using Music Controls” on page 14.

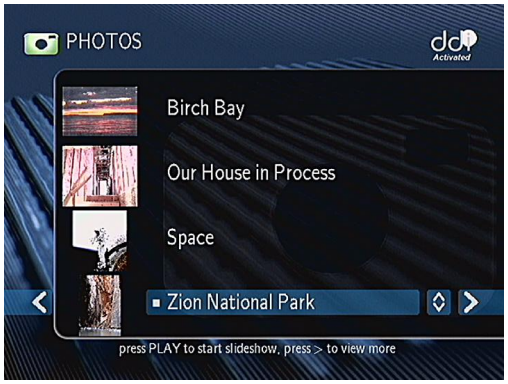
View Photos

Turn on your television and set it to display from the input ports to which your Digital Player is connected. See the documentation that came with your television for more information.

Use the remote to browse for a photo. Press the SELECT or PLAY button and enjoy!



❶ **Press ▸ to view photo library**



❷ **Press ▸ to view album content**

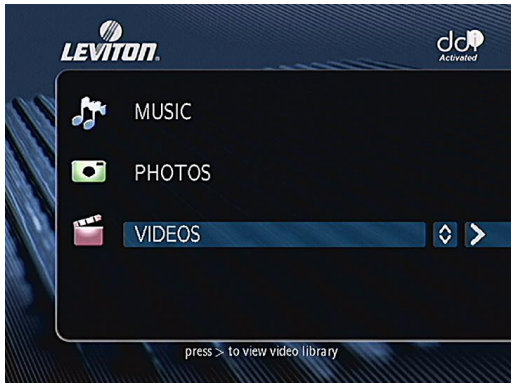
❸ **Press SELECT to view photo**

To exit the current photo, press the ◂ arrow on your remote. To view an album of photos in slideshow mode, select an album and press PLAY. To learn about adding music to a slideshow or other features available in Photos, see “Using Photo Controls” on page 18.

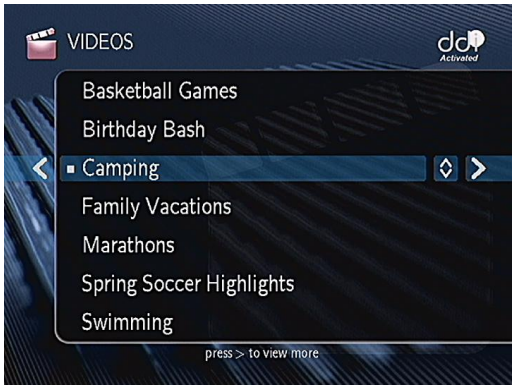
Play Video

Turn on your television and set it to display from the input ports to which your Digital Player is connected. See the documentation that came with your television for more information.

Use the remote to browse for a video. Press the SELECT or PLAY button and enjoy!



❶ **Press ▸ to view video library**



❷ **Press PLAY to play video**

You can stop, pause, fast forward or rewind your selection by using the remote. To learn about organizing your video into folders or other features available, see “Using Video Controls” on page 20.

Using Music Controls

Use the remote control to browse your music collection. You can play a song or an album, or create a custom list of songs to play.

You can press the PLAY button to play a song. To stop your selection, press the STOP or PAUSE button on the remote. The REW and FF buttons allow you to quickly scan through the song.

If you are playing several songs, you can also use the PREV and NEXT buttons to skip through the list. The RANDOM and REPEAT buttons let you change the order of the songs, or play them again.

Browse Music

There are several ways to browse your music collection. Your music was catalogued by the Gracenote CDDB® Music Recognition Service.

- Playlists – Choose from customized song collections.
- Genres – Your music has been organized into categories, such as Rock, Classical, New Age, or Jazz.
- Artists – This allows you to find all music by a particular artist.
- Albums – You can choose to play an album, or find a song on an album.
- Tracks – All songs in the media library are listed in alphabetical order.

Queue Music

The music queue is an ordered list of songs—they are arranged in sequence. The queue allows you to select a collection of songs to play.

To set up a music queue, use the remote to browse through your music collection. For each Track, Artist, Genre and Album you want to add to the queue, press the SELECT button on your remote. The songs are added to the queue in the order they are selected.

The **Music** menu contains the **Now Playing Queue** item. This shows the entire list of queued songs. The songs are played in the order they are listed. Use the DISPLAY button on your remote to see information about the song that is playing in the display bar at the top of your screen.

If you want the songs to play in random order, press the RANDOM button on your remote. This changes the order of the songs—the song list in the queue changes to the new ordering. The screen shows `shuffle` in the display bar. Press the RANDOM button again to return to the original order.

You can press the REPEAT button on your remote to play a song again. The REPEAT button switches between repeat single, repeat all, and no repeat.

Note: Your queue is cleared when you turn off the Digital Player. If you have a collection of songs that you would like to keep together as a set, you may want to create a playlist.

Organize Your Music

Your music is listed by artist, album, and genre. You can further organize your music by creating your own playlists. When music is transferred to your Digital Distribution Center, metadata that is attached to the file is used to organize the content. That metadata includes items such as artist, album, genre, and track title.

To organize your music from the Remote Player, choose the SET UP / EDIT button on your remote when you are in the **Music** menu.

Playlist

A playlist is a collection of songs. You might want to have a playlist with your favorite songs, songs from a particular decade, or dinner music.

Note: The playlist is a list of references to the songs. You may create or delete a playlist without affecting the tracks in your library. It does not change the way the songs are organized or move the songs to a different location.

If you want to create your own custom music selections, you can organize your music by playlist. You must create a new playlist before you can add songs:

1) Press the MUSIC button on your remote control.
2) Use the ▲ / ▼ arrows to navigate to the **Playlist** menu. Press the ▶ arrow.

3) Press the SET UP / EDIT button on your remote.
4) Use the ▲ / ▼ arrows to navigate to **Create New Playlist**. Press the ▶ arrow.
5) Press the SELECT button. Use the number keys to name your playlist.
6) Press the SELECT button to confirm the name. Press the ◀ arrow to exit.

If you have a playlist, you can add music to your playlist:

Step 5, below—you have to press SELECT then ▶, but the highlight bar on the TV only shows that you can choose "◀" "◇" and "▶"—not Ⓢ for SELECT. The "▶" button doesn't work yet; you have to SELECT first.

1) Navigate to the song, album, artist, or genre that you want to add.
2) Press the SET UP / EDIT button on your remote.
3) You are given an option to **Add Track to…**, **Add Album to…**, **Add Artist to…**, or **Add Genre to…** for the selected item. Use the ▲ / ▼ arrows to navigate to the **Add** option.
4) Use the ▲ / ▼ arrows to navigate to **Playlist**. Press the ▶ arrow.
5) Use the ▲ / ▼ arrows to navigate to the name of the playlist that you are building. Press SELECT and the name of the playlist is highlighted in green to show it is selected.
6) Press the ▶ arrow to confirm that you want to add to the playlist.
7) Use the ▲ / ▼ arrows to navigate to **Add & Exit**. Press the SELECT button. The selection is added to your playlist.

Songs are added to the playlist in the order they are selected.

You can also delete a playlist:

1) Press the MUSIC button on your remote control.
2) Use the ▲ / ▼ arrows to navigate to the **Playlist** menu. Press the ▶ arrow.
3) Press the SET UP / EDIT button on your remote.
4) Use the ▲ / ▼ arrows to navigate to **Delete Playlist**. Press the ▶ arrow.
5) The chosen playlist has green highlighting to show it is selected. Press the SELECT button on the remote to turn the green selection highlight on or off for each playlist.

6) Press the ▸ arrow to delete all the items with the green selection highlight.
7) Use the ▲ / ▼ arrows to navigate to **Delete & Exit**. Press the SELECT button to confirm.

Using Photo Controls

Use the remote control to browse your photo collection.

You can view a single photo, view a photo album, or run a slideshow. You can edit the name of a photo or rotate the image. You can add music to a slideshow and change the timing of slide transitions.

Browse Photos

Your photos will appear on the television as they were organized in the media library. Photo thumbnails are created to assist your navigation. An album thumbnail is created from one of the photos in the album. A menu item with a right arrow symbol " ▸ " indicates the menu item is an album containing additional photos. A menu item with a right arrow in a circle "⊙" indicates the menu item is a single picture. Press the ▲ / ▼ arrows on your remote control to navigate through the list. Press ▸ on the remote to enter an album. The ◂ button on the remote goes up one level.

Press the SETUP button from the **Photos** menu to view photo and album information and manage your photos.

View Photos

To view a single photo, browse to the photo and press PLAY or the ▸ arrow on the remote control.

To view photos as slideshow, browse to the album that you want to view. With the photo album highlighted, press PLAY on the remote control.

To exit the current photo or album, press ◂ on your remote or press STOP.

Add Music to Slideshow

You can play music along with your photo slideshow by associating a music playlist with a photo album. You must have defined one or more playlists to add music to a slideshow. To learn how to create a playlist, see “Playlist” on page 18.

To add a playlist to a photo album:

1) Press the PHOTOS button on your remote control.
2) Use the ▲ / ▼ arrows to navigate to an album.
3) Press the SETUP / EDIT button on your remote.
4) Use the ▲ / ▼ arrows to navigate to **Music**. Press the ▶ arrow.
5) Use the ▲ / ▼ arrows to navigate to the name of the playlist that you would like to use with your slideshow. Press the SELECT button.
6) Press the ◀ arrow to exit.
7) You have successfully associated a playlist to an album when the name of the playlist appears next to Music in the Edit Menu.

Organize Your Photos

Your photos are organized by individual photos or in albums. If you used the Media Manager Software to add your photos to the media library from your computer, they are organized the same way as you had them organized on your computer.

To reorganize your photos in the media library, see “Add Content Manually” on page 34.

Using Video Controls

Use the remote control to browse your video collection.

Your video can be organized and grouped into collections like “Birthdays” or “Movie Trailers”.

Browse Videos

Your videos will appear on the television as they were organized in the media library. A menu item with a right arrow symbol “ ▸ ” indicates the menu item is a collection containing multiple videos. A menu item with a right arrow in a circle “⊙” indicates the menu item is a single video. Press the ▲ / ▼ arrows on your remote control to navigate through the list. Press ▸ on the remote to enter a collection. The ◂ button on the remote will take you back one level.

Press the SET UP / EDIT button from the **Videos** menu to view video information and manage your videos.

Play Videos

To view a video, browse to the video and press PLAY on the remote control.

Organize Your Video Library

To reorganize your video in the media library, see “Add Content Manually” on page 34.

Using Media Manager Software

DDi Media Manager, powered by Gracenote, is a software application with tools to organize your digital music, photos, and video. The application can be downloaded and installed on multiple computers in your home.

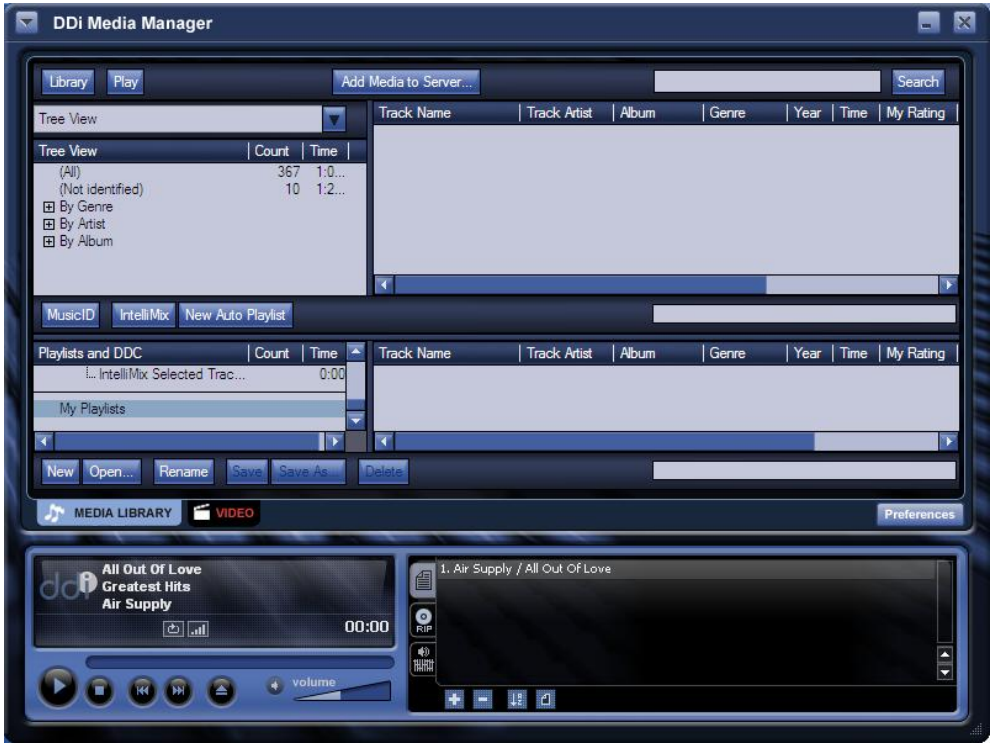
You can install Media Manager on up to ten Windows computers in your home. Download the application from the support page in Network Media Manager. Media Manager's onscreen menus guide you through the process of finding digital music, photos, and video files on your computer.

Media Manager can collect music files stored anywhere on your computer. Gracenote CDDB® Music Recognition Service analyzes your music files to ensure the accuracy of album, artist, and track information. Some music files may be renamed and re-tagged as they are placed in the media library. The original music files on your computer are not changed automatically, but can be changed or deleted manually if you choose.

For best results, before running Media Manager, organize your photos and video on your computer as you would like to see in them in the media library. The file structure on your computer will be the file structure copied to the media library. For best results organize your photos in the My Pictures folder, and video files in the My Video folder.

To learn how to add digital content to the media library without using Media Manager, see "Add Content Manually" on page 34.

Media Manager Features



Media Library – Displays information about the tracks you have added to your media library.

Video Tab – Displays video files.

Encoder – Converts music to compressed audio formats.

Playlists – The bottom-left section of the default player lets you create and manage playlists. You can create static and dynamic playlists.

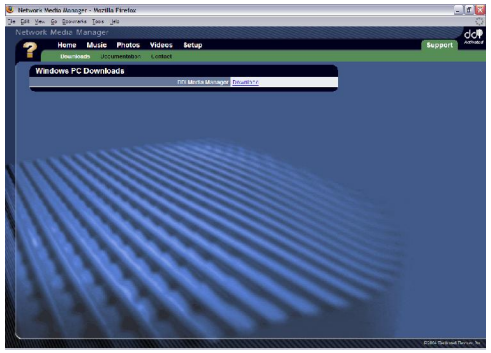
Current Track Queue – The right-most section of the default player lets you see and manage all the tracks currently selected for play.

MusicID – MusicID provides artist, title, extended information (credits), and music browser information from the Media Recognition Service.

Install Media Manager

1) From your computer, open a web browser. In the address field of the browser, type:

   `http://ddc`

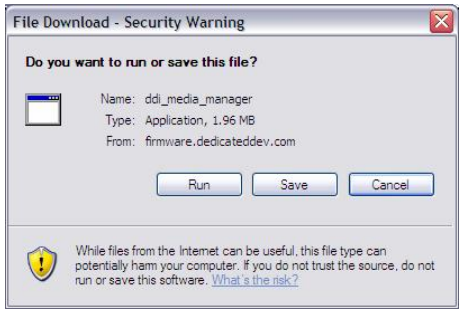


2) Press the ENTER key. This connects the computer to the Digital Distribution Center and the Network Media Manager application. To learn about additional features available in Network Media Manager, see “Using Network Media Manager” on page 51.

3) From the **Home** screen, click on the **Support tab**.

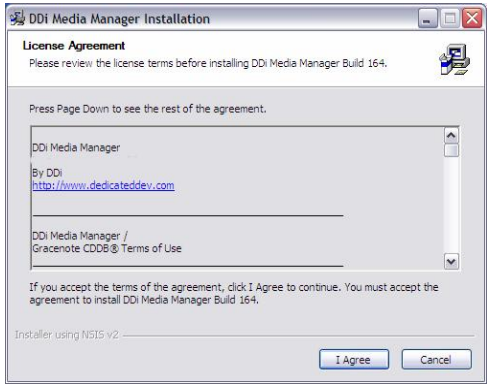
4) Click on Media Manager **download**.

5) When the Windows dialog box appears, click the **Run** button and follow onscreen prompts to install the application. You will receive a security warning dialog box. Click **Run** to continue.



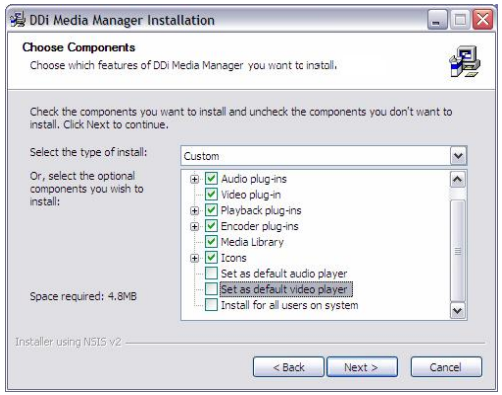
License Agreement

Review the license agreement. If you accept the terms of the agreement, click **I Agree** to continue. You must accept the agreement to install Media Manager.



Choose Components

Choose which features of the Media Manager you want to install. The settings you define here also can be modified from the Preferences menu within the application.



Set as default audio player – Media Manager becomes your default player for playing music files on your computer.

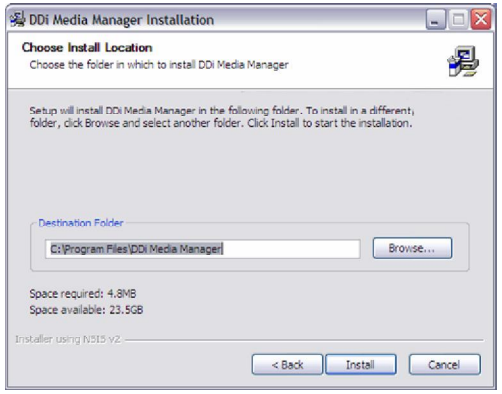
Set as default music player – Media Manager becomes your default player for playing video on your computer.

Install for all users on system – Installation Media Manager for all users on a computer.

To select a component, click the box and a green check mark will appear. Click **NEXT** to apply your choices.

Choose Install Location

Setup will install Media Manager in the Programs Files folder under DDi Media Manager. To install in a different folder, click Browse and select another folder. Click Install to start the installation.



A dialog box will indicate successful installation. Click **OK** to launch the Media Manager Player.

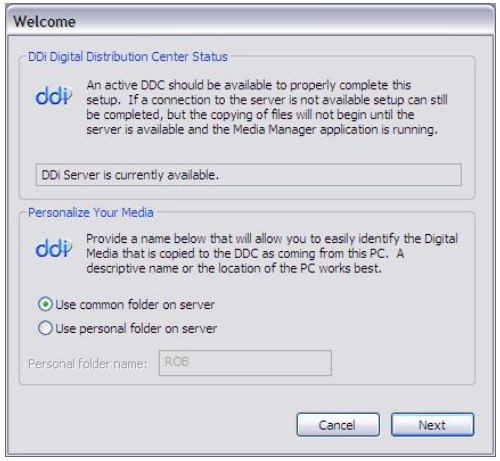
Setup Media Manager

Setup is a one time event that will guide you through the process of identifying digital connect that resides on your personal computer so that it can be copied to the Digital Distribution Center (DDC). Settings defined here can be modified later from the Preferences menu with the application.

Click **NEXT** to continue.

Personalize Your Digital Content

You may choose to consolidate all media into one common folder on the Digital Distribution Center, or create a personal folder on the server for each computer.



Use common folder on server - Organizes all content (music, video, photos) in the media library regardless of which computer was the source of the content. If multiple copies of the same file exist on various computers in the home, this method eliminates the duplication of files stored in the media library.

Use personal folder on server – Organizes photos and video in the media library under a specific name. If the personal folder is named ROB, you will find photos organized under the heading ROB when browsing your media library from a television. Music is not affected by personal folder when browsing from a television.

Choose a Template

You may choose how music is organized, and how it appears in the media library. These templates define the format used for file names on the Digital Distribution Center. There are several templates. You can also create your own custom template.

Automatic Updates

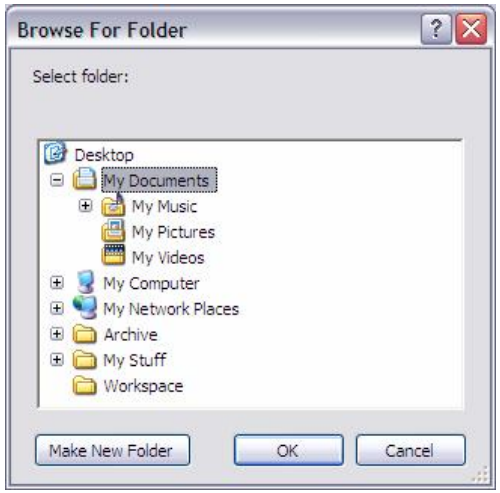
Select Automatic Media Copying to allow new Media added to the library on the PC to be automatically copied to the Digital Distribution Center.

Browse for Folder

Select **LOAD** to begin importing media to the DDC or select **SKIP** and perform this operation at a later time. For best results, before running Media Manager, organize your photos and video on your computer as you would like to see in them in the media library. The file structure on your computer will be the file structure copied to the media library. For best results organize your photos in the My Pictures folder, and video files in the My Video folder.

Select Folder

The time it takes to import media will vary depending on the amount selected. If you have organized your music, photos, and videos into the My Music, My Pictures and My Videos folders, choosing these folders will take less time than scanning your entire computer.



Select the folder by clicking on the folder. The name will be highlighted.

Click **OK** to scan the chosen folder for media files.

Several dialog boxes will appear to provide information regarding the import process. Media Manager will import files, identify files using the Gracenote Music Recognition service, and finish the process of copying files to the Digital Distribution Center.

Add Folder

Following the initial setup you may choose to select additional folders to be scanned by Media Manager. Open Media Manager by clicking on the DDi Media Manager shortcut icon or by selecting DDi Media Manager from your list of programs.

Click on the **Library** button in the upper left corner of the Media Manager application.

Click on **Add folder to Library…**

Select a folder.

Click **OK** to begin scan.

Music Playlists

You can create playlists from the Media Manager application. A playlist stores a set of songs in a particular order. A **Static Playlist** specifies the individual files to play and it never varies.

An **Auto Playlist** doesn't store actual songs. Instead, it stores a set of criteria, such as a genre or artist, or information about when you last played a song. An auto playlist searches through your media library and plays all the songs that match the criteria for the auto playlist. Every time you play an auto playlist, you might hear a different set of songs. For example, if you create an auto playlist with songs you have played with the last month, the songs you hear depend on what you have been listening to lately. You can remix auto playlist and save them as static playlists.

An **Intellimix** uses a "seed" song to create an auto-generated playlist of similar music. You can think of it as "play more songs like this". You can remix Intellimix playlists and save them as static playlists.

Note: In order to create IntelliMix Playlists and Auto Playlists, all tracks in the Media Library must first be identified using Gracenote's Music Recognition Service and MusicID.

Create Static Playlists

1) In the **Playlist and DDC area**, make sure the highlighting is in the My Playlists area.

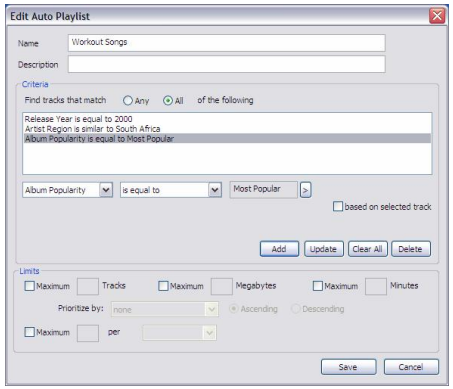
2) Click **New.** The Media Player creates a playlist called "New Playlist". To change this name, select New Playlist, click **Rename**, and type a different name.

3) To add tracks to the playlist, drag them from your Media Library into the Playlist track area.

Create an Auto Playlist

1) Click **New Auto Playlist button**.

2) Specify the criteria for the songs that this playlist will play. Choose from the drop-down menu criteria like "Release Year", "Artist Region" or "Album Popularity". To refine the Auto Playlist choose multiple criteria.



3) **Choose Any or All by clicking on the word. A green button will appear to indicate your choice.**

   Any – finds songs that meet any of the criteria you define

   All – finds only songs that meet all of the criteria

4) To limit the size of the Auto Playlist, check one or more of the **Maximum** boxes and specify the highest total songs, minutes, or megabytes this Auto Playlist can comprise.

5) Click **Save**.

Create an Intellimix Playlist

1) Select the "seed" track for this playlist.
2) Click **Intellimix** in the Media Library
3) The Intellimix appears in the **Playlists and Devices** area.

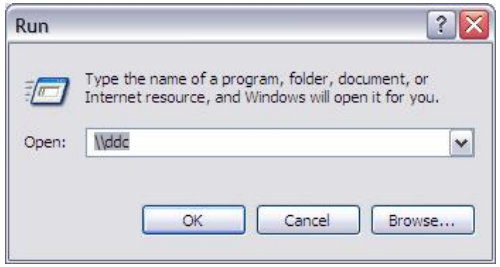
Add Content Manually

Content can be added to the server without the use of the Media Manager software.

When manually adding content to the Digital Distribution Center you do not take advantage of the Gratenote® Music Recognition Service. Music will not be analyzed to ensure title, artist, genre and album descriptions are correct.

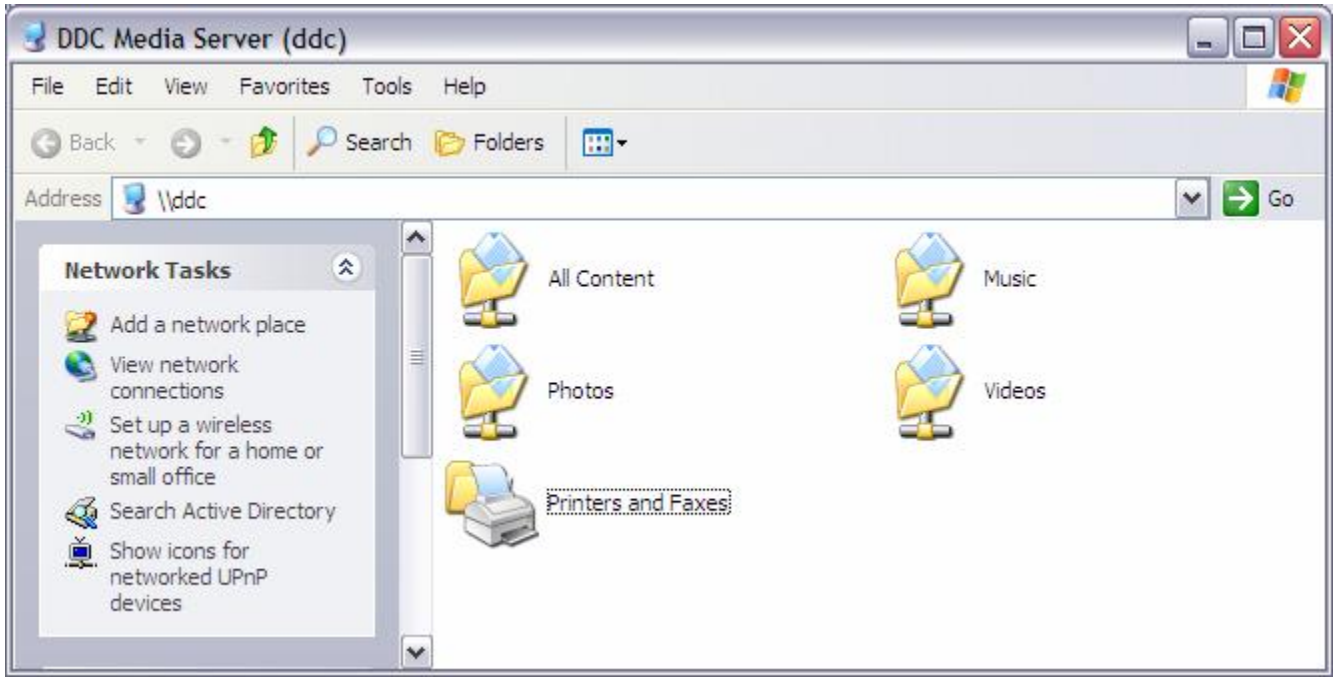
Connect to the Server

Your Windows computer must be connected to the network. Click **Start** and select **Run**…. The "Run" dialog box appears. Type: `\\ddc`



Click **OK**.

The window for the DDC Media Server appears, giving you access to the folders and files on the server. You may organize these folders from your PC by adding, moving, or deleting the music, video or photo files.



There are separate folders on the DDC Media Server for:

All Content - contains all the content on the server

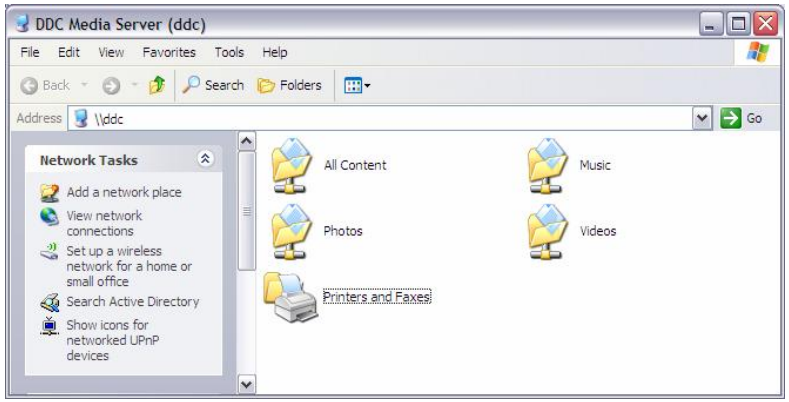
Music – contains the music files on the server

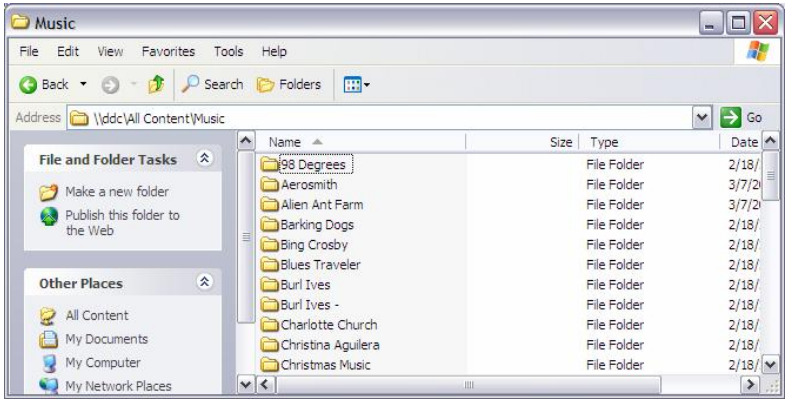
Photos – contains the photo files on the server

Videos – contains the video files on the server

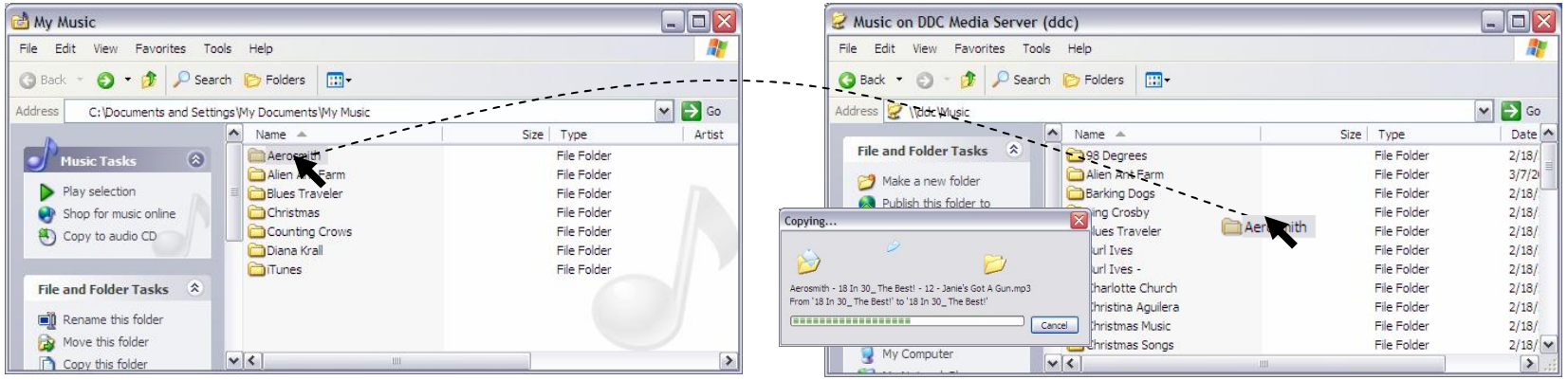
Add Music Manually

From the DDC Media Server window double click on the **Music** folder. The **Music on DDC Media Server** window will open. Leave the Music on DDC Media Server window open.



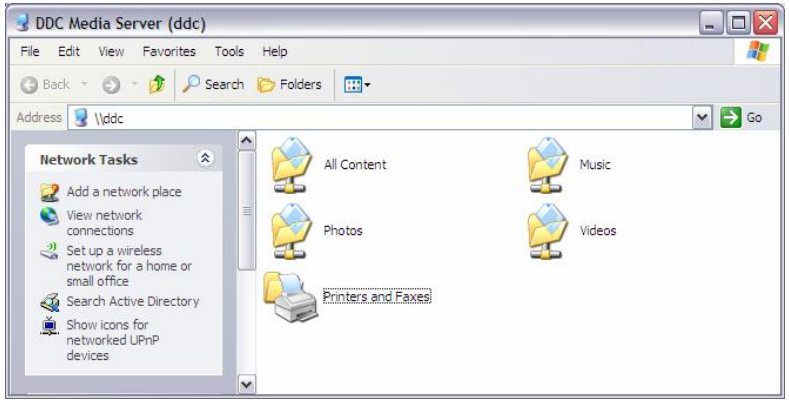


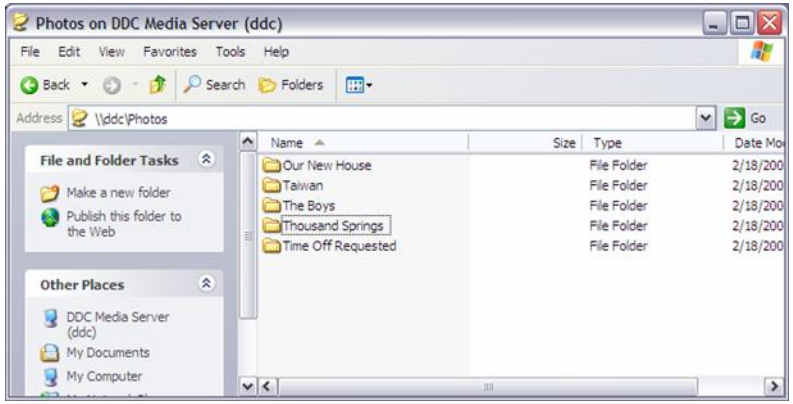
Open a second window containing the music file you want to copy to the server. In this example Aerosmith is in the My Music folder. Click and hold down the left mouse button. Drag the file from the My Music folder to the Music on DDC Media Server and drop the file on to the server by releasing the mouse button.



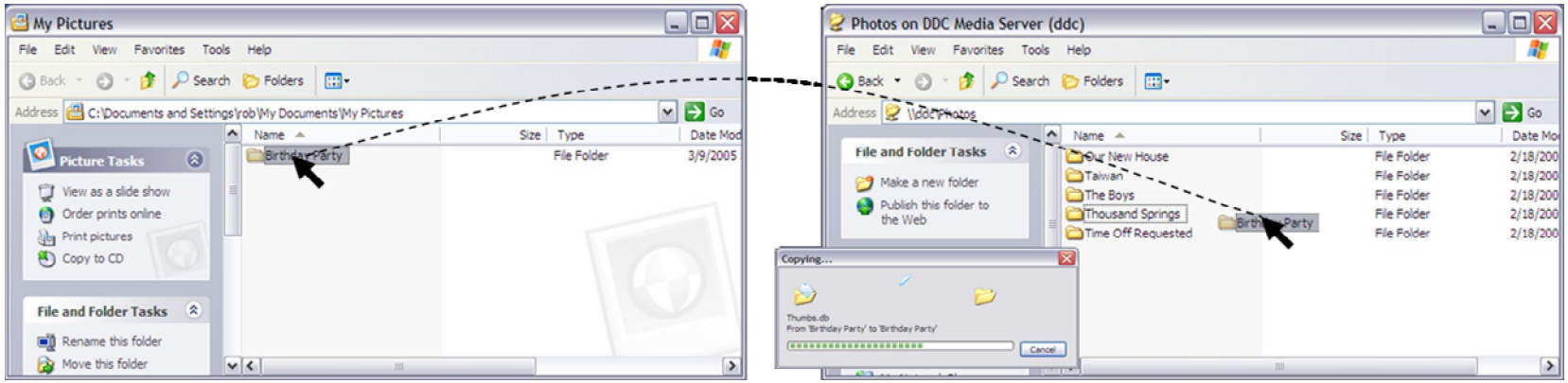
Add Photos Manually

From the DDC Media Server window double click on the **Photos** folder. The **Photos on DDC Media Server** window will open. Leave the Photos on DDC Media Server window open.



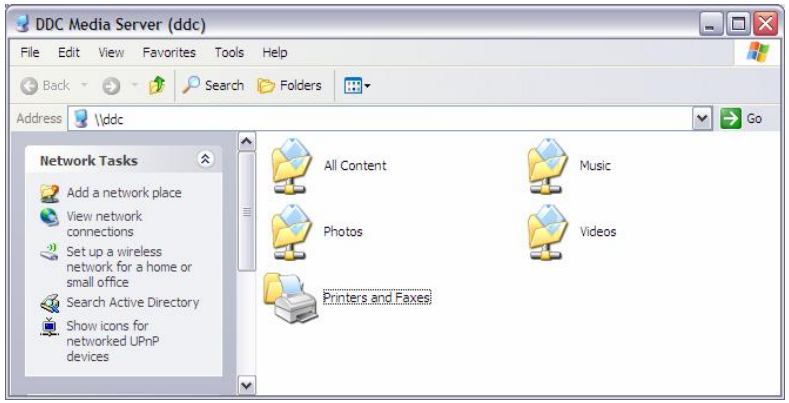


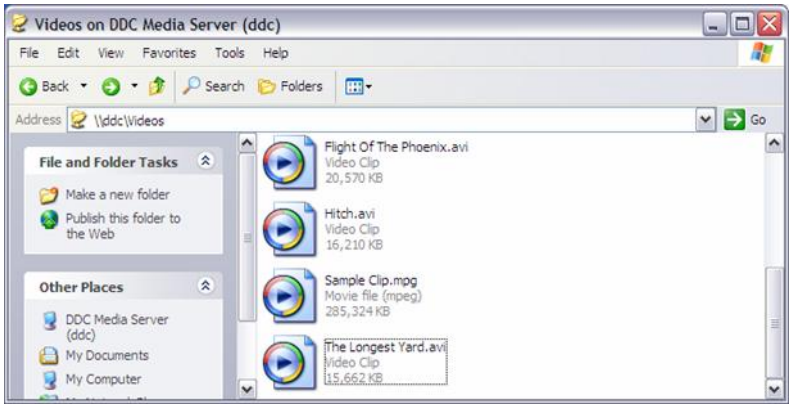
Open a second window containing the photo file you want to copy to the server. In this example Birthday Party is in the My Pictures folder. Click and hold down the left mouse button. Drag the file from the My Music folder to the Music on DDC Media Server and drop the file on to the server by releasing the mouse button.



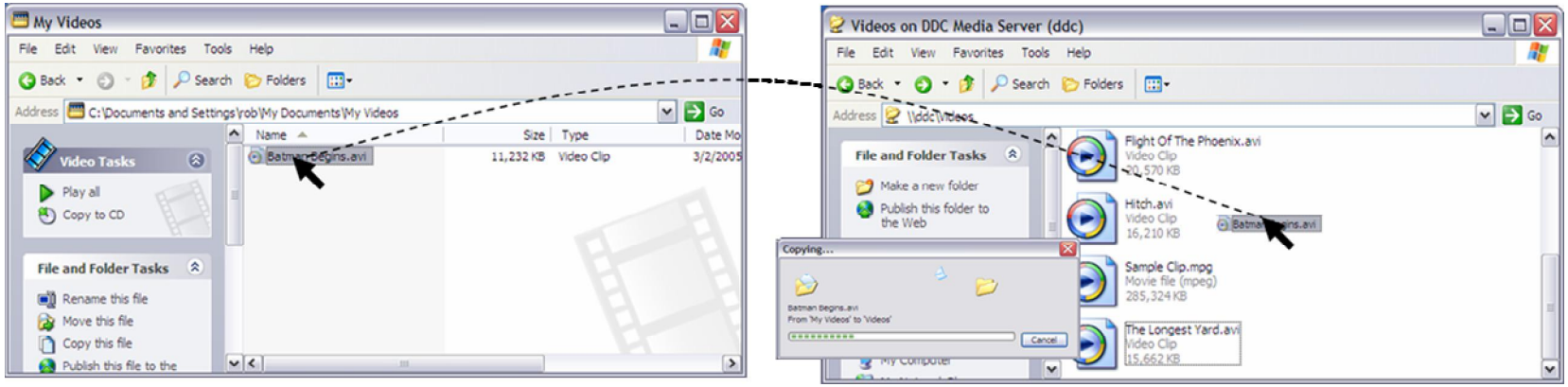
Add Video Manually

From the DDC Media Server window double click on the **Videos** folder. The **Videos on DDC Media Server** window will open. Leave the Videos on DDC Media Server window open.





Open a second window containing the video file you want to copy to the server. In this example Batman Begins is in the My Videos folder. Click and hold down the left mouse button. Drag the file from the My Videos folder to the Videos on DDC Media Server and drop the file on to the server by releasing the mouse button.



Adding Components

Your Leviton Entertainment & Applications Platform activates a digital network within your home and can be expanded to meet your growing needs.

The Digital Distribution Center functions as a switch to conveniently network PCs, printers, wireless access points, and other computer equipment throughout the home. With the addition of Digital Players you may add A/V components like receivers, televisions, or stereos.

Adding Personal Computers

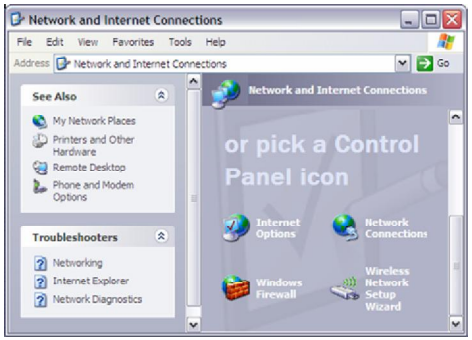
To connect a personal computer to the digital network your computer must have an Ethernet port. For information specific to your computer's Ethernet port, please refer to your computer user manual.

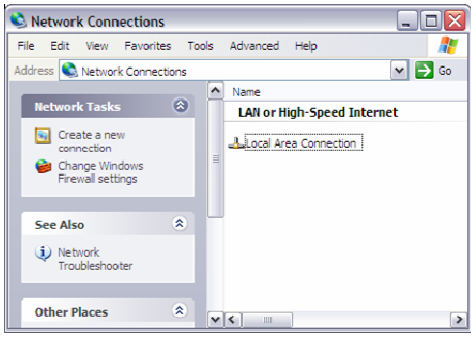
Using Cat5e network cable, connect one end to an Ethernet port on your computer. Connect the other end to an active wallplate.

Next you will need to ensure your computer's network settings are set to obtain an IP (or TCP/IP) address automatically (called DHCP). Computers use IP addresses to communicate with each other across a network or the Internet. By default Windows XP has TCP/IP installed and set to obtain an IP address automatically.

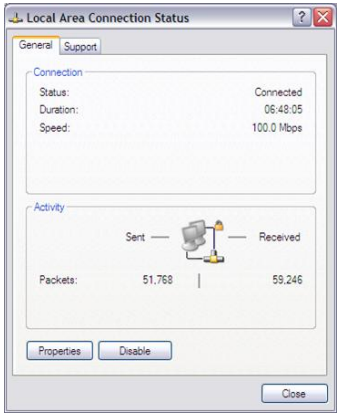
Checking TCP/IP Setting in Windows XP (for other operating systems refer to your PC user manual):

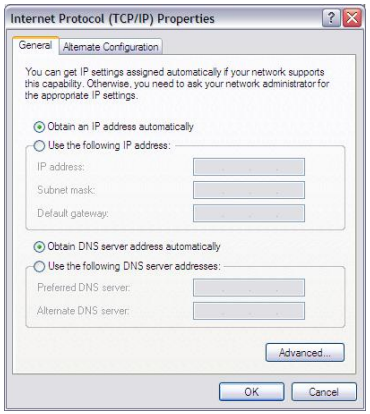
1) From your computer click on the Start button and select ***Control Panel***. Click on ***Network and Internet Connections***.
2) Click on ***Network Connections***.
3) Double click the ***Local Area Connection***.





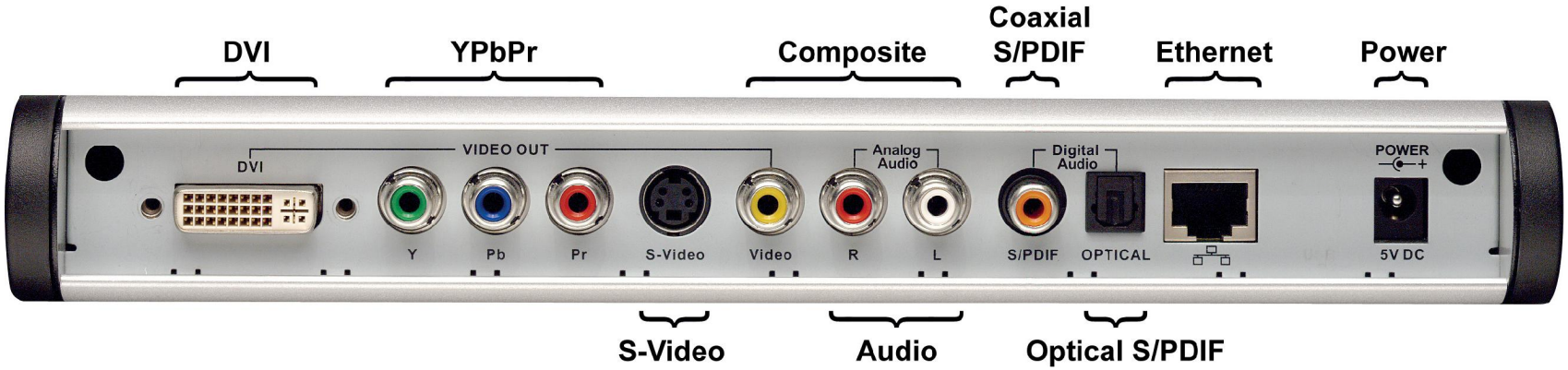
4) Click on the ***Properties*** button. Check that ***Obtain an IP address automatically***.





Adding Audio / Video Components

You can easily add additional televisions, stereos or other audio/video components to your digital network. Then your A/V components can be used to play videos, view photos, or listen to music. Multiple digital zone capability allows many Digital Players around the home to access digital audio, video or photo streams independently and simultaneously.

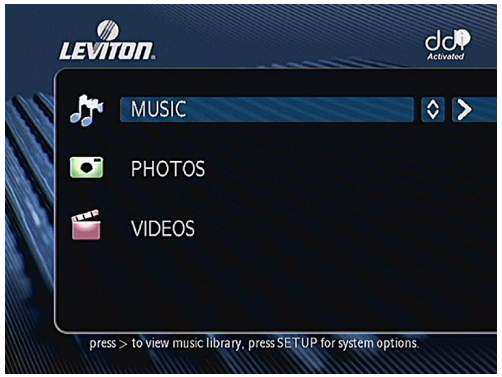


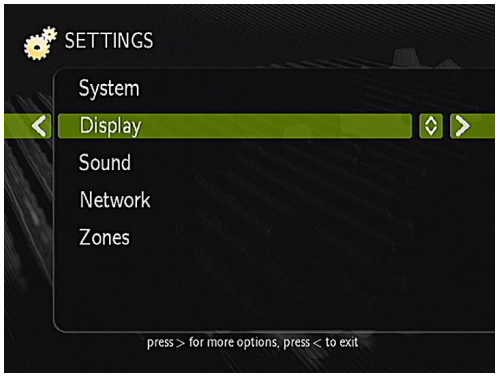
Connect a Digital Player

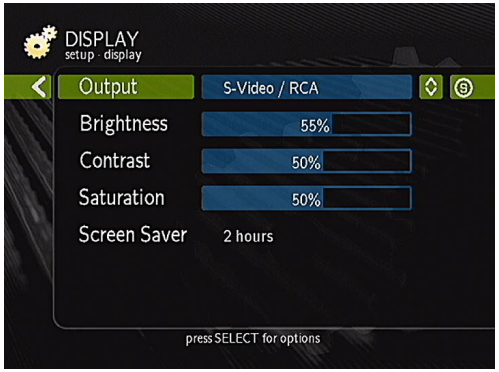
1) Connect the Digital Player to your digital network using Ethernet cable.
2) For initial setup cable the Digital Player to your A/V component using composite outputs. The default video output for the Digital Player is composite. You will also want to cable using the desired outputs, such as DVI.
3) Connect the power cable to your Digital Player. Plug the cable into a power outlet, powering on the Digital Player.
4) Select the input source on the television to view the system.

Change Display Output

1) From the ***Main menu***, press the ***Setup button*** on the remote control. This will open the ***Settings menu***.
2) Select ***Display***. This will open the ***Display menu***.
3) Select ***Output*** and press ***Select*** on the remote. Use the up/down arrow buttons on the remote to select the desired output. Press ***Select*** to choose.
4) Exit the ***Display menu*** by pressing the right arrow button. This will start test mode. You will have 20 seconds to complete the next step.
5) Select the corresponding display mode on your television. The user interface will appear. Press ***Select*** on the remote to confirm.



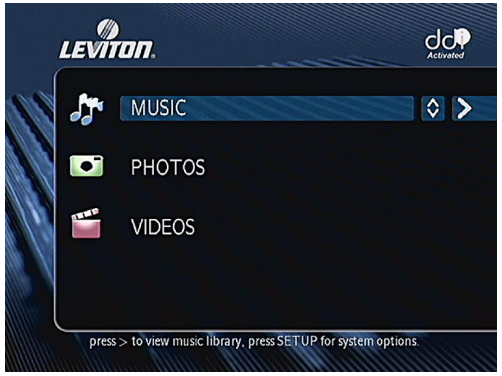


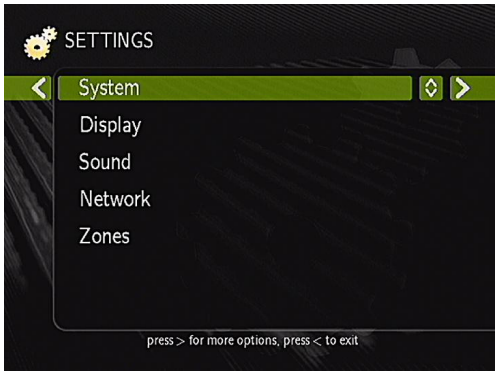


System Setup

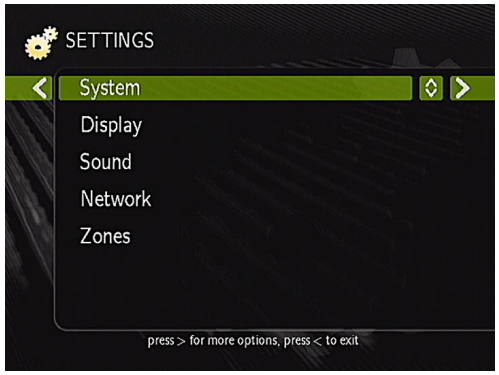
From the Home menu on the Digital Player, use the SETUP / EDIT button on your remote control to manage your system.

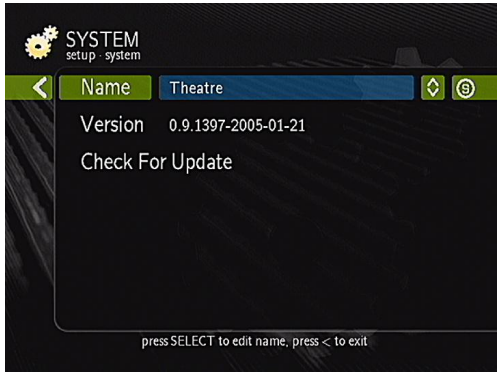
You can configure some features of your system using your television and remote control. For other advanced options, see “Using Network Media Manager.”





System





Name

Each Digital Player in your home has a name. You can change their names to make them easier to manage. For instance, you could name two of your Digital Players “Theatre” and “Bedroom TV.”

To rename one of your Digital Players:

1) From the ***Main menu***, press the ***Setup button*** on the remote control.
2) Use the ▲ / ▼ arrows to navigate to **System**. Press the ▶ arrow.
3) Use the ▲ / ▼ arrows to navigate to **Name**. Press the SELECT button.
4) Press the ◀ arrow to backspace and remove the old name. Use the number keys to name your Digital Player.
5) Press the SELECT button to confirm the name. Press the ◀ arrow to exit.

Version

The **System** menu shows you the version number of the software on your system. This is the software for a specific Digital Player. Each Digital Player must be undated separately. You may have different versions of software for each Digital Player.

Check for Update

Select this option to update the software on your Digital Player. This must be done for each Digital Player. Use the ▲ / ▼ keys to navigate to **Check for Update** and then press the ▶ arrow button on the remote. Your system checks the Internet for the most recent version of software available. Help text at the bottom of the System menu screen will identify whether an update is available.

If you have the newest software, no action is required and the message will read:

```
no update available
```

If there is a newer version of software than the one installed on your system, the message will read:

```
update available. press SELECT to install
```

If you would like to verify installation, write down the current software version number before proceeding. If you choose to install the software, it takes a few minutes to download. No additional action is required, installation completes automatically.

```
downloading...
applying update...device will reset when complete
```

Once the software is installed, the Digital Player shuts down and restarts. This causes the television screen to go blank. After a few minutes, the screen returns to the main menu.

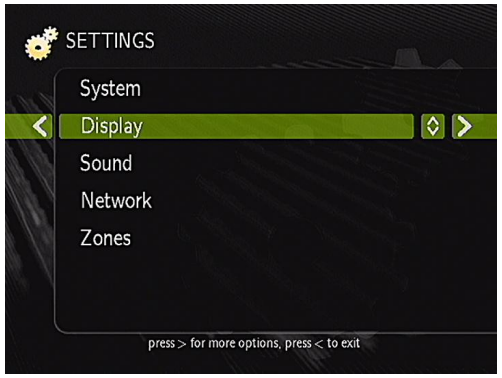
If you want to verify installation of the new software, press the SETUP / EDIT button on your remote. You can compare the new software version number with the one you wrote down.

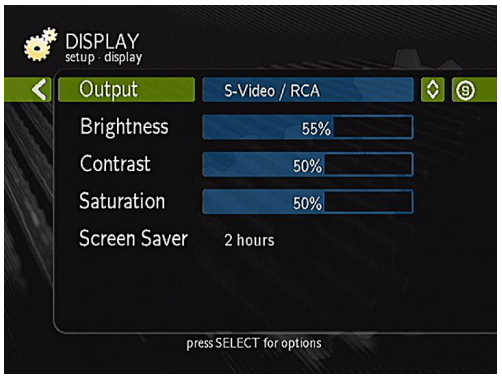
With the new software, you may see changes in the operation of your Digital Player.

Note: During the update process no personal information will be transmitted.

Display

The **Display** menu allows you to adjust the video output settings.





Output

The default video output for the Digital Player is composite. You can change the video output at any time.

To change display output:

1) From the ***Main menu***, press the ***Setup button*** on the remote control. This will open the ***Settings menu***.
2) Select ***Display***. This will open the ***Display menu***.
3) Select ***Output*** and press ***Select*** on the remote. Use the up/down arrow buttons on the remote to select the desired output. Press ***Select*** to choose.
4) Exit the ***Display menu*** by pressing the right arrow button. This will start test mode. You will have 20 seconds to complete the next step.
5) Select the corresponding display mode on your television. The user interface will appear. Press ***Select*** on the remote to confirm. Press the ◂ arrow to exit.

Brightness

The **Brightness** menu option adjusts the brightness of the display provided by the Digital Player. You can change this from 0% to 100%, in 1% increments, where lower values are darker. The brightness does not change until you press the SELECT button. You may only want change this a few percent at a time.

Contrast

The **Contrast** menu option adjusts the contrast of the display provided by the Digital Player. You can change this from 0% to 100%, in 1% increments, where lower values have less contrast. The contrast does not change until you press the SELECT button. You may only want change this a few percent at a time.

Saturation

The **Saturation** menu option adjusts the saturation of the display provided by the Digital Player. You can change this from 0% to 100%, in 1% increments, where lower values have less saturation. The saturation does not change until you press the SELECT button. You may only want change this a few percent at a time.

Screen Saver

A screen saver helps prevent “burn in” on some kinds of television screens. When a constant pattern is displayed on the screen, such as the menus from the Digital Player, it can cause a permanent mark to be burned into some screens. The screen saver shows an animated pattern to prevent burn in. After there has been no user activity for a period of time, the screen saver activates.

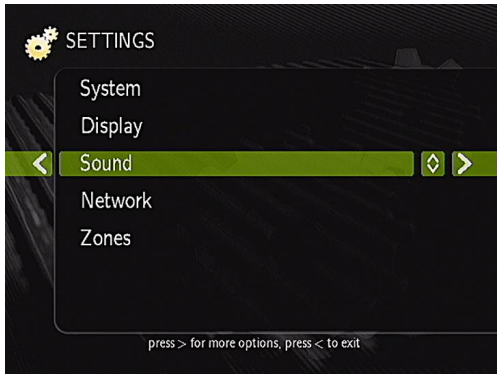
You can adjust the amount of time before the screen saver appears. If you like to spend time browsing through the menus, you may want to set the screen saver for a longer time period. It is recommended that you do not turn off the screen saver unless you know that your screen is not susceptible to “burn in.”

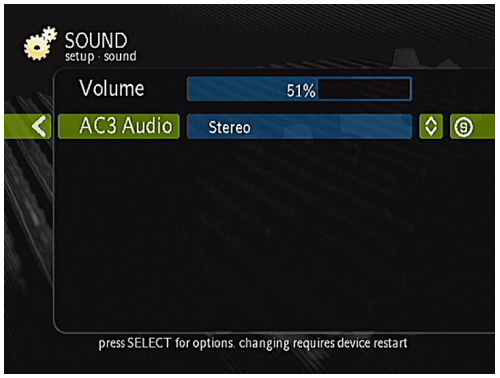
To change Screen Saver timing:

1) From the ***Main menu*** press the ***Setup button*** on the remote control. This will open the ***Settings menu***.
2) Use the ▲ / ▼ arrow keys to scroll. Highlight the ***Screen Saver*** option. Press ***Select*** and use the ▲ / ▼ arrow keys cycle through the options.
3) Press ***Select*** to choose the option of your choice. Press the ◀ arrow to exit.

Sound

The **Sound** menu allows you to adjust the settings for audio performance.





Volume

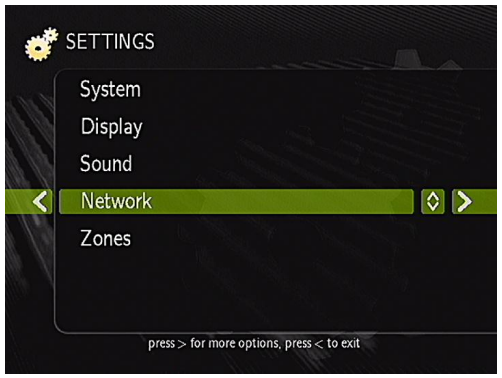
The ***Volume*** menu item allows you to adjust the volume gain when using analog audio output. This adjustment does not affect gain when using digital audio output. You can change this from 0% to 100%, in 1% increments. The volume does not change until you press the SELECT button. You may only want change this a few percent at a time.

Digital Audio

The ***Digital Audio*** menu item allows you to select stereo or 5.1 (S/PDIF/Coax) to match the audio cable output. It is important to match the setting to the cabling output for optimal audio performance. For example, during movie play back, if the content is Dolby Digital 5.1, the signal will pass through the digital connection only.

Network

The **Network** menu allows you to adjust basic network settings. For more advanced network settings see, “Network Media Manager” on page 00.



IP Mode

This setting defines how IP addresses are allocated for devices on your network. **Static** IP addresses are set to a specific value that does not change. **DHCP** (Dynamic Host Configuration Protocol) automatically assigns unique IP addresses to the devices on your network. Your computer, along with other devices, also must be set up to use DHCP.

IP Address

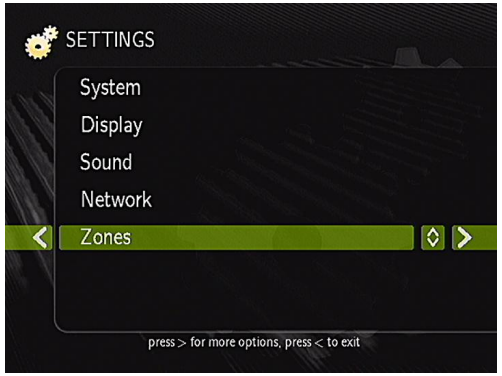
This is the IP address of your Digital Player. Each device on the network requires a unique IP address. You cannot change this value if the **IP Mode** is set to **DHCP**.

Subnet Mask

This is the IP Subnet Mask for your Digital Player. This can be used when dividing a network into subnets. You cannot change this value if the **IP Mode** is set to **DHCP**.

Zones

The **Zones** menu allows you to select another zone on the network, providing control of music in another zone/room of the house.



To select a zone:

1) From the ***Main menu*** press the ***Setup button*** on the remote control. This will open the ***Settings menu***.
2) Use the ▲ / ▼ arrow keys to scroll. Select the ***Zones*** menu item by highlighting Zones and pressing the ▶ arrow.
3) Use the ▲ / ▼ arrow keys cycle through the options. Highlight the zone you want to control. Press ***SELECT*** to choose.
4) Press the ◀ arrow to exit. At the top of the menu you will see the name of the zone you are controlling.
5) To change back to the original zone or to select another zone following the same steps as above.

Using Network Media Manager

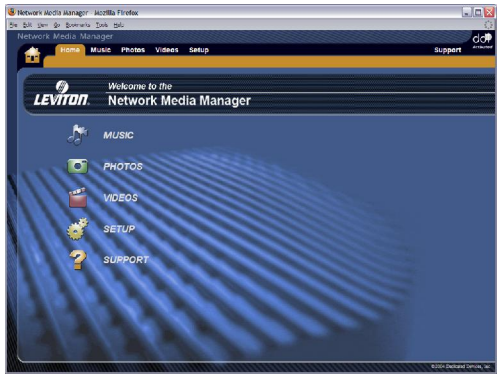
Network Media Manager is a browser-based utility to administer network settings. It is also a convenient browser for accessing the digital music, photos, and video stored on the Digital Distribution Center. The utility can be accessed through a web browser from any computer attached to your local network.

Your computer must be connected to your local network with the Digital Distribution Center. The computer can be physically connected through Ethernet, or may have a wireless connection through a wireless hub.

From your computer, open a web browser. In the address field of the browser, type:

```
http://ddc
```

Press the “Enter” key. This connects your computer to the Digital Distribution Center and the Network Media Manager application.

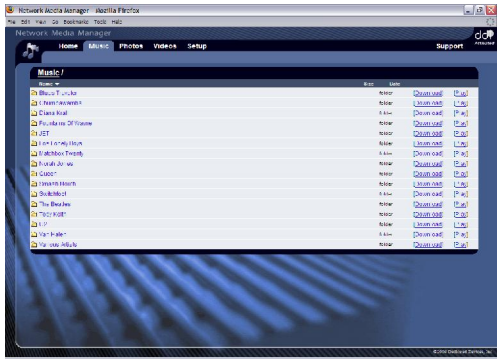


Home

The first Network Media Manager screen shows the main options on the Home screen. It allows you to browse your Music, Photos, and Videos. You can play your content, or download it to your computer. Using the Setup page, you can modify your network settings. You can find software downloads, documentation, and contact information on the Support page.

Music

The Music page allows you to view your music files from the media library on the Digital Distribution Center. You can browse your music collection. You can download a song, or play it on your computer. Clicking on the name of the song is the same as clicking “Play.” The song is streamed to your computer—it is not saved on your computer.



You can also click “Play” to play all the contents of a folder.

After you have navigated to a music folder, the Network Media Manager shows information about each song. It lists the song name and the size of each song.

You can sort on a column by clicking on the heading. The sorted column has a triangle next to the heading. Click on the heading name again to reverse the direction of the sort. The triangle also changes direction.

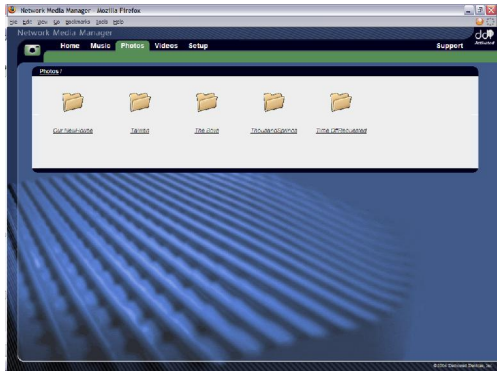
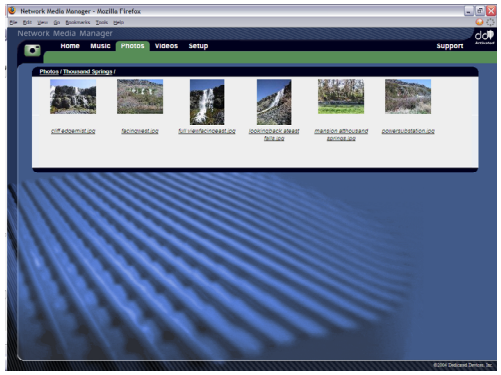
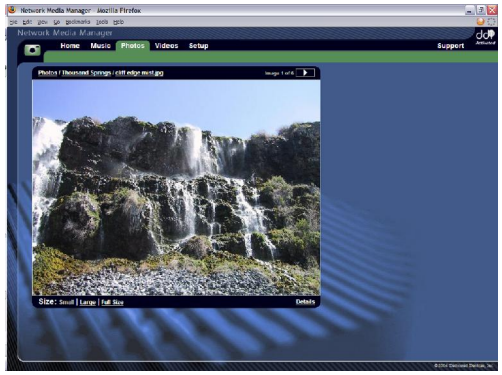
To go back to the previous folder, you can click on the name of the folder in the black “Music /” title bar above the list.

Photos

The Photos page allows you to view your photos from the media library on the Digital Distribution Center. You can browse your photo collection, or you can download a photo.

Click on the photo name to view the photo. To download a photo to your computer, right-click the photo name and save the photo.

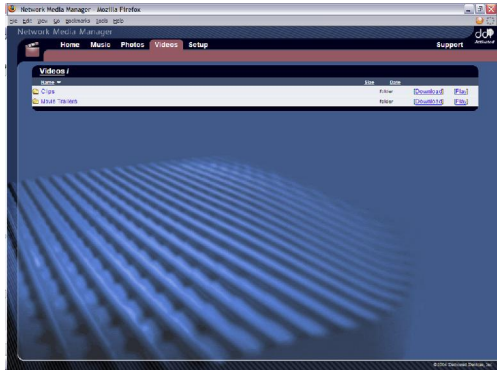
To go back to the previous folder, you can click on the name of the folder in the black “Photos /” title bar above the list.

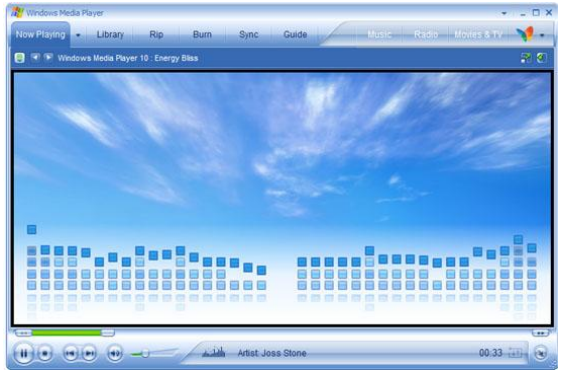




You can choose to view the photo at different sizes by selecting Small, Large or Full Size.

Videos

The Videos page allows you to view your video files from the media library on the Digital Distribution Center. You can browse your video collection. You can download a video, or play it on your computer. Clicking on the name of the video is the same as clicking “Play.” The video is streamed to your computer—it is not saved on your computer unless you choose to save the file to your computer.





After you have navigated to a video folder, the Network Media Manager shows information about each video. It shows the video name and the size of each video. You can sort on a column by clicking on the heading. The sorted column has a triangle next to the heading. Click on the heading name again to reverse the direction of the sort. The triangle also changes direction.

To go back to the previous folder, you can click on the name of the folder in the black “Videos /” title bar above the list.

Setup

The Setup page allows you to configure the settings for your network. You can set up DHCP, the firewall, DNS, and VPN. By default, DHCP is enabled.

When you click on the Setup tab, it asks for your Name and Password. If you have not changed the password, type

User Name:

```
admin
```

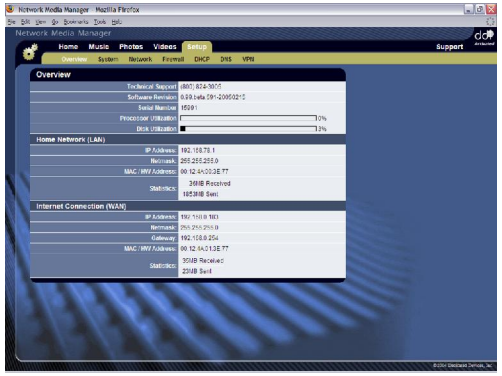
Password:

```
admin
```

You can change the password from the System page. Changing the password provides added security, but you must choose a password that you will remember.

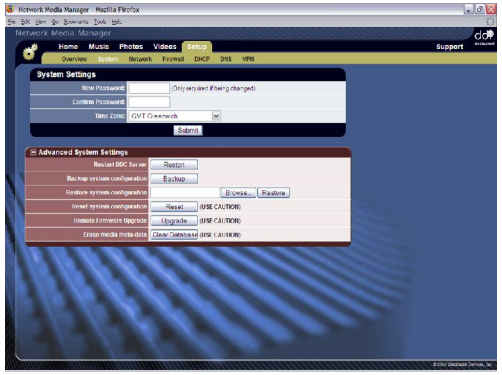
Overview

The overview page provides information about your system. You can find the software revision, serial number, and basic information about your network configuration and Internet connection.



System

The System page lets you restart your system, backup and restore, or upgrade your firmware. You can change your password from the Setup page.



Change Password - Changing the password provides added security, but you must choose a password that you will remember.

To change the password:

1) Enter a new password
2) Re-enter the new password to cofirm
3) Press ***Submit***.

Restart DDC Server – As a dedicated device that is always available, the Digital Distribution Center does not have a physical power button. If the system requires a reboot you may do so by clicking ***Restart***.

Backup System Configuration – After setting up the network it is recommended you backup the system configuration. You may go back and restore the system to a saved configuration at any time.

To backup the system configuration:

1) Click the ***Backup*** button.
2) Choose a location to save the file. Click ***OK***.

Restore System Configuration – If after changing settings you are experiencing issues with your system you can go back and restore the system to a saved configuration. This eliminates the need of re-entering configuration settings.

To restore the system configuration:

1) Click the ***Browse*** button.
2) Find your saved configuration file. If you did not give the file name a unique description the default name is "ddc_config.bin".
3) Click ***Open***. The file name will appear in the text box.
4) Click ***Restore***.
5) A message will appear stating ***"System Configuration Successfully Restored. The server will restart now"***

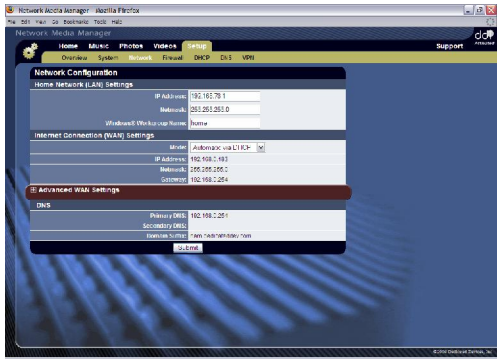
Reset System Configuration – This feature will reset the system configuration back to the factory default settings. Doing this will erase all your settings and will require you to re-enter your setting preferences.

Remote Firmware Upgrade – This will upgrade the firmware on the Digital Distribution Center (server). USE CAUTION! When upgrading firmware it is important that the system process is not interrupted. Power to the system must remain on throughout the upgrade process. Interruption to power will cause damage to the system.

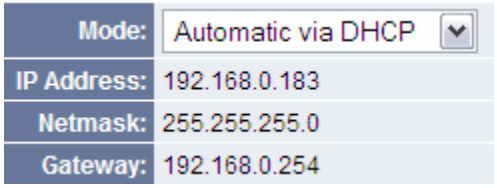
Erase Media Meta-data – This feature will clear all meta-data from the data base function and will re-populate upon completion. Meta-data embedded in your files are not affected.

Network

The Network page allows you to change your home network configuration and connection to your Internet Service Provider (ISP). Setup information is provided by your ISP. If you do not have the setup information you need for your specific type of Internet connection, you should request your ISP to send you the data.

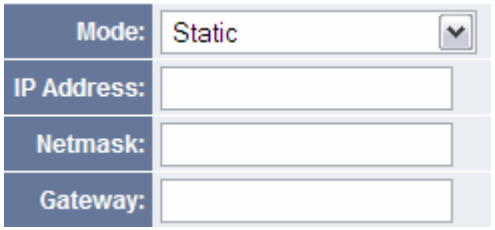


Connecting through DHCP or dynamic IP address:



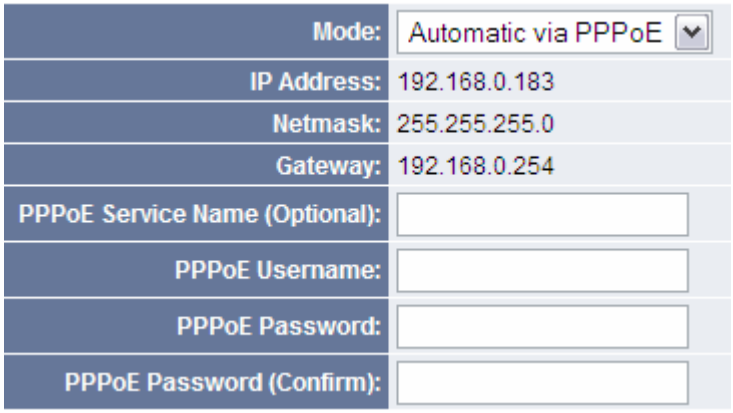
1) Default mode is ***Automatic via DHCP***
2) Confirm IP Address, Netmask & Gateway fields are populated
3) Finished

Connecting through Static or fixed IP address:



1) Select ***Static*** mode from the drop-down menu
2) Enter the following information as provided by your Internet Service Provider (ISP)
    a. IP Address
    b. Netmask
    c. Gateway
3) Click ***Submit*** to save settings
4) Finished

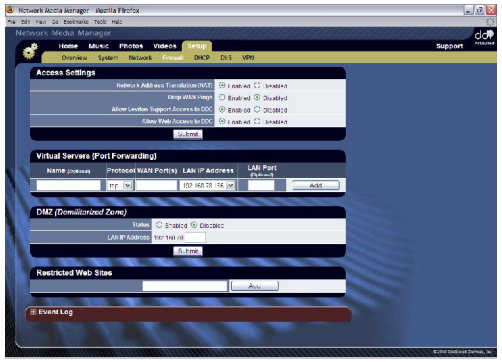
Connecting through PPPoE:



1) Select ***PPPoE*** mode from the drop-down menu
2) Enter the following information as provided by the ISP
    a. User Name
    b. Password
    c. Password (Confirm)
3) Finished

Firewall

A firewall filters the data that comes into your home network from the Internet. The filter won't allow certain packets of information onto your home network. A firewall provides security, and can be set up to protect your network from attacks or offensive web sites.



Network Address Translation (NAT) – An Internet standard that enables a local-area network (LAN) to use one set of IP addresses for internal traffic and a second set of addresses for external traffic. The main purpose of NAT is to provide a type of firewall by hiding internal IP addresses. This feature is enabled by default. Select DISABLE to disable. Click SUBMIT to apply your changes.

Drop WAN Pings - This feature will prevent a network from being "pinged," or detected, by other Internet users. The Drop WAN Pings feature also reinforces network security by hiding the network ports. Both functions make it more difficult for outside users to access the network. This feature is enabled by default. Select DISABLE to disable. Click SUBMIT to apply your changes.

Allow Leviton Support Access to DDC - When enabled, this feature allows Leviton technical support to have remote access and view of your system. This feature greatly assists troubling. This feature is disabled by default. Select ENABLE to enable. Click SUBMIT to apply your changes.

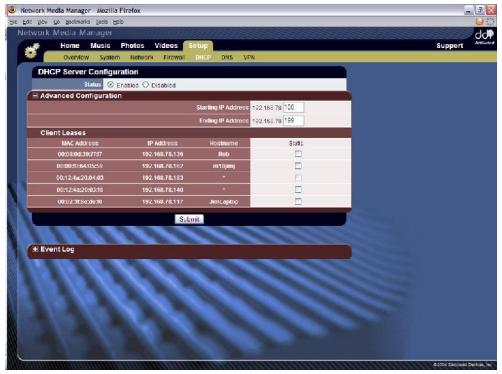
Allow Web Access to DDC - When enabled, this feature allows access to the system from a remote location via the Internet. This feature is disabled by default. Select ENABLE to enable. Click SUBMIT to apply your changes. This feature works in conjunction with a DNS service like dyndns.org where you can register a domain name like myhome.com.

DMZ (Demilitarized Zone) - Allows a local user to be exposed to the Internet for use of special-purpose services such as online gaming or videoconferencing.

Restricted Web Sites – This feature filters content on the web that you may find offensive. Any web pages from these URLs are not allowed into your network.

DHCP

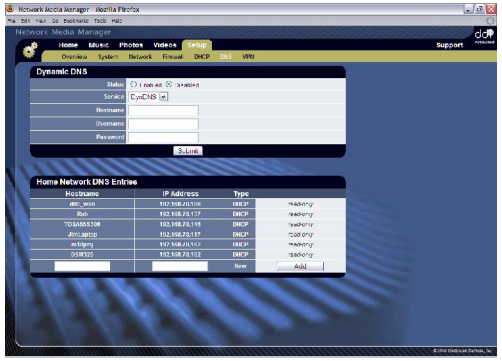
Dynamic Host Configuration is a protocol that dynamically assigns IP addresses when new devices are added. Without DHCP, the IP address must be entered manually at each computer and, if a computer is moved to another room, a new IP address must be entered. By default DHCP is enabled. To disable, click on Disable and click on submit.



For Web services/servers that need a permanent IP address for a computer DHCP supports static addresses. Simply enable static IP address by clicking the box next to the device for which a static IP address is needed.

DNS

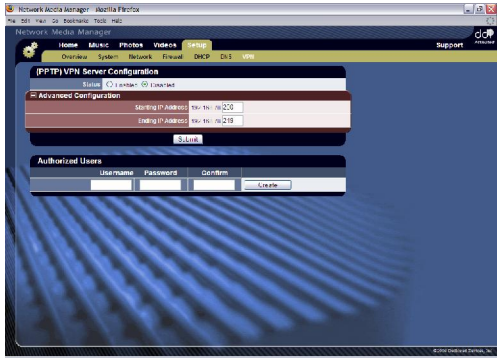
DNS (Domain Name System) system translates a name, such as “Office PC” into a corresponding IP Address, like 198.105.232.4. The benefit of DNS is it allows you to use an easy to remember name rather than an IP Address.



Three leading DNS service providers are included in the drop down menu. These are the three the system supports. To enable a DNS service you must register with a provider. Basic services are available for free with expanded services at a fee. When you register you will be given a Hostname, Username and Password. Enter the information provided by the DNS service. Click submit.

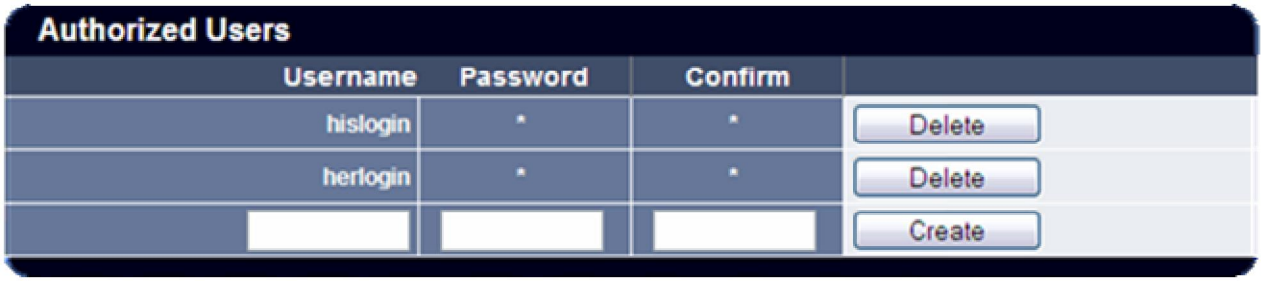
VPN

A VPN (Virtual Private Network) is a security measure that creates a secure connection "tunnel" between two remote locations. It allows data to be sent securely between two endpoints while using the Internet.



Establish a tunnel:

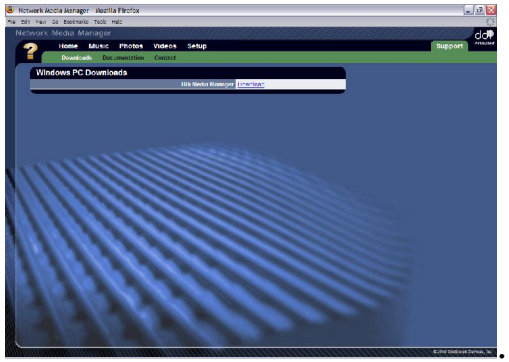
1) Choose ***Enabled*** and click ***Submit***
2) Create a user account by entering ***Username*** and ***Password***
3) Finished



Delete a tunnel by clicking ***Delete*** next to the user account you want to delete.

Support

The Support page includes software, documentation, and contact information.



Downloads

The Support page has Windows software that you can download to your computer, such as the Media Manager.

To download the most recent version of the software, you must have a connection to the Internet. Click on the “download” link to get the newest software.

Documentation

The Documentation page has available documents that you can download to your computer, such as User Guide.

To download the most recent version of a document, you must have a connection to the Internet. Click on the “download” link to get the newest document.

Contact

The Contact page is a reference page for Leviton’s address, phone number and website.

Troubleshooting

If you are experiencing difficulties with your Leviton Entertainment & Applications Platform, please check your system.

If you are unable to solve your problem, see “Learning More, Service, and Support” on page 70.

Power

Check the lights on the Digital Distribution Center and your Digital Players. The lights are on the front of the Digital Players. On the Digital Distribution Center, the lights are opposite the side with the power cable—the same side as the Ethernet cables. You should be able to see one or more lights. If there are no lights, the device is not receiving power.

Digital Distribution Center

Verify that you can use a web browser to access the Network Media Manager. This is a web page available from the Digital Distribution Center:

```
http://ddc
```

If this does not work, try using the direct IP address:

```
http://192.168.78.1
```

If the IP address works, you might have a problem with multiple DNS servers or other network settings. Your PC should have 192.168.78.1 as the first DNS server in the list. Windows computers should also have that IP address as the first WINS server in the list. See your computer documentation.

If you cannot see this web page, restart your system as shown in the section “Restart Digital Distribution Center” on page 68.

Internet

The Digital Distribution Center should be the first device that is attached to your Internet connection. An Ethernet cable should connect the WAN port of the Digital Distribution Center to your dial-up modem, cable modem, ISDN, Digital Subscriber Line (DSL), satellite connection, or other broadband Internet access.

If you believe your system is connected to the Internet, verify that you can access an external web page. If you suspect the internet connection is at fault, you may want to restart your system as shown in the section “Restart Digital Distribution Center” on page 68.

Local Network

Check that every active port on the Digital Distribution Center has a green light. These are the ports that have an Ethernet cable attached.

If you are having a problem with one device, try connecting it to a different Ethernet port on your network. Use a known good Ethernet cable for the connection. An Ethernet crossover cable looks similar to a regular Ethernet cable, but does not function here.

Playing Content

If the Digital Distribution Center appears to be functioning, check the other parts of your system.

All Digital Players should be connected to the Ethernet ports on your home network. They should also have standard audio/visual cabling to connect them to your consumer electronics.

Check that all Digital Players can be turned on and off with the Remote Control. If you cannot turn the Digital Player on or off using the remote control, try replacing the remote control batteries. The “ddi” remote included with the system takes two AAA batteries. The battery polarity is shown inside the battery compartment. If your system integrator substituted a universal remote, follow its instructions for battery replacement.

If the Digital Player is routed through another device, such as a DVD player that is connected to a television, be sure that the television is set to display content from the DVD player or other device.

Check the input port on your video components. With the Digital Player on, verify that you are looking at the correct input on your television or other component. The audio/video cable connection on your consumer electronics device may list the input, such as “Line 1” or “VCR A-V” or “AV2 In.”

Check the input port on your audio components. Use the Digital Player to play a music file. Verify that you are listening to the correct input port.

Restart System

If you are having problems with a component in your system, it may help to restart your Digital Player.

Restart Digital Player

If you can access the Network Media Manager web page but are still experiencing difficulties, the Digital Player might need to be restarted.

1) Use the remote control to turn off the Digital Player.
2) Unplug the Digital Player’s power cable. The Digital Players do not have a power switch.
3) Wait for a few seconds.
4) Plug the power cable back into the Digital Player. It may take a few minutes for the Digital Player to complete the power-up process.

Restart Digital Distribution Center

If the cable connections appear correct but you cannot access the Network Media Manager, you may want to restart the Digital Distribution Center.

1) Use the remote control to turn off all Digital Players.
2) Unplug all Digital Player power cables. The Digital Players do not have power switches.
3) Unplug the power cable for the Digital Distribution Center. The Digital Distribution Center does not have a power switch.
4) If you suspect problems with your Internet connection, you may also want to turn off your Internet access device—modem, ISDN, cable modem, digital subscriber line (DSL), satellite connection, or other broadband

Internet access. Wait for a few seconds, and then turn it on again. Wait a minute to be sure that it has completed the power-up process.

5) Plug the power cable back into the Digital Distribution Center.
6) Wait a few minutes. It takes a few minutes for the Digital Distribution Center to complete the power-up process.
7) Plug the power cables back into the Digital Players. It may take a few minutes for the Digital Players to complete the power-up process.

Learning More, Service, and Support

Online Information

http://www.dedicateddevices.com

http://www.leviton.com

Support

If you are having problems with your system, first see “Troubleshooting” on page 66. If you are unable to solve the problem, Technical Support is available. Before calling technical support, write down the software version number and serial number of your system. You may be asked to provide additional information about your system configuration.

The Software Revision and Serial Number can be found by accessing Network Media Manager and going to the Overview page.

Technical Support: (800) 824-3005

Service