

# Hi-Def Digital Signage Media Player

EXT-HD-DSMP User Manual

## www.gefen.com

Gefen DS

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Congratulations on your purchase of the Hi-Def Digital Signage Media Player. Your complete satisfaction is very important to us.

### Gefen

Gefen delivers innovative, progressive computer and electronics add-on solutions that harness integration, extension, distribution and conversion technologies. Gefen's reliable, plug-and-play products supplement cross-platform computer systems, professional audio/video environments and HDTV systems of all sizes with hard-working solutions that are easy to implement and simple to operate.

### The Gefen Hi-Def Digital Signage Media Player

The Hi-Def Digital Signage Media Player provides an effective means to playback and schedule digital signage content on both digital and analog connections. By connecting the Hi-Def Digital Signage Media Player to a network, content can be pushed to the box using a computer and FTP client program. When a more elaborate setup is required, a number of units can be installed to pull content from a local or external FTP server based on a schedule. The Hi-Def Digital Signage Media Player acts as both an FTP client and server with live logging of various important statistics, such as playback, system status, and uploaded content. For precise time synchronization, the Hi-Def Digital Signage Media Player can be set up to access an external NTP server. Many audio and video file formats are supported with NTSC and PAL output resolutions up to 1080p Full HD. HDMI, Composite, and Component outputs with separate analog and digital audio outputs provide flexibility when connecting to various displays. Two USB 2.0 ports provide connection to the included USB flash drive or to an external hard drive. The Hi-Def Digital Signage Media Player enclosure features integrated mounting brackets for a secure installation on any flat surface or directly to the back of the display. For complete management of multiple devices in multiple locations, Gefen provides a CMS (Content Management Software) solution which can be run in a virtual environment. The Gefen CMS will allow you to easily manage all of your units in the field from any compatible browser with access to logs, schedules, content, and playlists.

### How It Works

The Hi-Def Digital Signage Media Player can connect to a display using either analog or digital video connectors. Connect an HDMI, Component, or Composite cable between the Hi-Def Digital Signage Media Player and the display. If using the networking capabilities of the Hi-Def Digital Signage Media Player, connect your network cable to the Ethernet port. Optionally, the digital or analog audio output connector can be used to connect the Hi-Def Digital Signage Media Player to an external audio processor or amplifier. Connect the included USB flash drive to the rear panel of the unit. Connect the 12 V DC power supply to the unit and connect the AC power cord to an available electrical outlet.

### READ THESE NOTES BEFORE INSTALLING OR OPERATING THE HI-DEF DIGITAL SIGNAGE MEDIA PLAYER

• This unit **DOES NOT** contain any internal memory. Memory must be supplied by the user in the form of a USB 2.0 flash drive. The following file systems are compatible with this player:

### NTFS

The main settings, schedules, playlists, and subdirectories will be located on the attached USB device. The default directories and settings file (settings. xml) can be downloaded and placed into the root directory of the USB device. These files can be downloaded from the Gefen Web site at this location:

www.gefen.com/downloads

- Power must be disconnected from the Hi-Def Digital Signage Media Player before the USB drive is attached.
- The Gefen Hi-Def Digital Signage Media Player has both analog (Component and composite) and Digital (HDMI) connectors. The following output resolutions are available:

Analog Connectors: Composite: 480i and 576i (NTSC/PAL) Component: 720p, 1080i, and 1080p (NTSC / PAL)

Digital Connectors: HDMI: 720p, 1080i, and 1080p (NTSC/PAL)

The Gefen Hi-Def Digital Signage Media Player can operate in two modes:

- **Stand-Alone Mode** This is the default mode. In this mode the unit supports all scheduling and playlist features but cannot be updated remotely via the FTP server or client. For more information on operating the Media Player in Stand-Alone mode, see page 20.
- Network Mode In this mode all scheduling and playlist features available. Remote management is possible by utilizing the FTP server and client that are built into the Hi-Def Digital Signage Media Player. For more information on operating the Media Player in one of the two Network Modes, refer to page 30.

### Features

- Supports resolutions up to 1080p Full HD
- HDMI, Component, and Composite A/V outputs active simultaneously
- Text-based scheduling and playlist using a text editor
- CMS for multiple units\*
- Supports MPEG 1/2/4, DivX 3/4/5/6, XVid, and H.264/AVC video codecs
- Supports MP3, MPEG, WMA, PCM, LPCM, ADPCM, FLAC, WAV, AAC, OGG, and MKA audio formats
- Wall-mountable enclosure for excellent heat dissipation and durability
- Integrated OSD Menu for device configuration
- Built-in FTP server and client to push and pull content
- Full media scheduling and accounting logs
- NTP client for time synchronization
- USB 2.0 ports used for storage
- Programmable PIN code prevents unauthorized access to OSD
- Compatible file systems: NTFS
- IR remote control unit

### Package Includes

- (1) Hi-Def Digital Signage Media Player
- (1) 6 ft. Locking HDMI cable (M-M)
- (1) USB 2.0 flash drive
- (1) IR Remote Control Unit
- (1) 12V / 3A DC Power Supply
- (1) Quick-Start Guide

\*Content Management Software (CMS) allows you to manage content, playlists, and schedules for multiple units on a network. See the *Content Management Software User Manual* for more information.

### Front Panel



### Front Panel

### 1 IR

This IR window receives signals from the IR Remote Control Unit.

### 2 STATUS

This LED indicator will flash bright blue to indicate network traffic when the Media Player is connected to a network.

### 3 PWR

Power LED indicator. When power is applied to the unit, this LED will glow bright blue. When no USB device is connected, the LED will alternate blue and red. When the Media Player is booting, this LED will flash red when accessing the USB drive.

### **Back Panel**



### 1 Component

Connect three (3) RCA cables from the Green, Blue, and Red outputs to the component video input of a display or other video output device.

### 2 Optical

TOSLINK audio ouput connector. Connect an optical cable from this connector to an audio output device.

### 3 HDMI

Connect an HDTV display to this port using the included locking HDMI cable.

### 4 Ethernet

Connects the Hi-Def Digital Signage Media Player to a network using 10/100 Mbps Ethernet cable.

### 5 USB

USB 2.0 output ports. Connect up to two (2) USB devices to these ports.

### 6 12V DC

Connect the included 12 V DC power supply to this power receptacle.

### 7 Analog Audio Output

Connect a L/R RCA stereo pair from these outputs to an L/R RCA stereo input pair on an audio output device.

### 8 Component Output

Connect a single RCA cable from this output to the component video input of a display or other video output device.



### EXT-HD-DSMP-IR Remote Control Unit

### 1 Power

This button will toggle between the ON and STANDBY power states. A RED LED will be active when the unit is in Standby power state. The Power LED will glow bright blue when the Media Player is powered ON.

### 2 Numeric Keypad (0 - 9)

Used to enter values when using the Menu System.

### 3 -

Press this button to increase the volume level of the audio output.

### 4 Back

Press this button to move up one level in the Menu System or return from a submenu.

### 5

Press this button to decrease the volume level of the audio output.

### 6 Aspect

Changes the aspect ratio between 16:9, 16:10, Pan Scan 4:3, and Letter Box 4:3

### 7 < (Cursor Left)

Press this button to move (to the left) between fields in the Main Menu.

### 8 ▼ (Cursor Down)

Press this button to move the selection cursor down or to decrease values within the Main Menu.

### 9 OK

Confirms the current setting.

### 10 ► (Cursor Right)

Press this button to move (to the right) between fields in the Main Menu.

### 11 Output

Selects the output resolution.

### 12 ▲ (Cursor Up)

Press this button to move the selection cursor up or to increase values within the Main Menu.

### 13 Eject button

Press this button to eject the USB drive, before removing the USB drive.

### 14 Home

Press this button to display the Input PIN Code screen.

### 15 Mute

Press this button to mute the output signal.

### Installing the Batteries

- 1. Remove the battery cover on the back of the IR Remote Control Unit.
- 2. Insert the included AA batteries into the open battery slot.
- 3. Replace the battery cover.





**WARNING:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

### How to Connect the Hi-Def Digital Signage Media Player

1. Connect Hi-Def Digital Signage Media Player to the display using the included HDMI cable.



**NOTE:** If using the Hi-Def Digital Signage Media Player with an analog display, then connect the Hi-Def Digital Signage Media Player to the display using user-supplied composite or component video cables.

- OPTIONAL: Connect the analog or digital audio outputs of the Hi-Def Digital Signage Media Player to an audio receiver/processor using RCA (analog) or Optical (digital) cables.
- Connect the included USB 2.0 flash drive (or external USB 2.0 hard drive) to the USB port located on the rear panel of the Hi-Def Digital Signage Media Player unit.



**IMPORTANT:** The USB drive must always be connected to the Media Player *before* power is applied.

4. Connect the included 12V DC power adapter between the power input of the Hi-Def Digital Signage Media Player and an available electrical outlet.

### Wiring Diagram for the Hi-Def Digital Signage Media Player



### Powering the Hi-Def Digital Signage Media Player

 Once power has been connected to the Hi-Def Digital Signage Media Player, the following screen will be displayed while the unit completes the booting process.



2. After the boot process has been completed, any schedules, playlists, and content will be automatically begin playing:



If no content has been scheduled, then the PIN code screen will be displayed. See next page for details on using the PIN code screen.

### Accessing the Main Menu

If no media is scheduled to play after the Media Player has finished booting, then the PIN code screen will be displayed. The PIN code screen provides a secure gateway to the Main Menu. The PIN code screen can be displayed at any time by pressing the Home button on the IR Remote Control.

- 1. Press the Home button on the IR Remote Control.
- 2. The Input PIN code screen will be displayed.



3. Use the numeric keypad on the included IR Remote Control to enter the PIN code. The default PIN code is: 0000.



#### - Numeric Keypad Use the numeric keypad on the IR Remote Control to enter the PIN code.

The Main Menu will automatically be displayed if the correct PIN code is entered.

### OPERATING THE HI-DEF DIGITAL SIGNAGE MEDIA PLAYER

As the PIN code is entered, each of the numbers will be masked for security purposes. Although not required, a PIN code is recommended to prevent unauthorized access to the Main Menu. The PIN code can be disabled (see page 48).

Gefen	Input PIN c	ode to unlock the device	
	S/W Version: Ver.0.9.3	Current Time: 01/01/2010, 00:38	
	Inpu Box's	t PIN Code * * * - P: 192.168.2.116	
			,
	PIN code is during entr	s always masked v.	

ADVANCED: If the PIN code has been disabled within the settings.xml file, then pressing the HOME button on the IR Remote Control will access the Input PIN Code screen (see page 48 for more information on enabling / disabling and setting the PIN code). From the Input PIN Code screen, press the OK button to access the Main Menu.

Gefen	Press	OK key to unlock the device
ſ	S/W Version: Ver.0.9.3	Current Time: 01/01/2010, 00:21
	Ir	nput PIN Code
	05	SD Lock is disabled
		x's IP: 192.168.2.116
L		OK Unlock the device 🔄 Back

4. After entering the correct PIN code, the Main Menu will be displayed.

Gefen 👤	5	
S/W	Version: Ver.0.9.1 Current Ti	me: 01/01/2010, 00:28
	EXIT OSD	
	Set Time/Time Zone/Daylight Saving Tim	e/Time Mode
	Network	
	Change Device Name	Gefen Player
	Set PIN code for locking local menu	
	Reset to default settings	
	Set FTP username/password for client	
	Eject USB Device	

### Safely Removing the USB Storage Device

In Stand-Alone Mode, it will be necessary to remove the USB storage device from the Media Player in order to update schedule files, playlist files, and content. To safely remove the USB storage device, use the EJECT button on the IR Remote Control Unit.

- 1. Access the Main Menu in order to stop the playback of all content.
- Press the EJECT button on the IR Remote Control Unit. Note that the bottom portion of the Main Menu also identifies the EJECT button on the IR Remote Control Unit.



 The Media Player will prompt you to select which device to stop. In the example below, only one USB device is connected to the Media Player. Additional storage would be identified as D, E, F, etc.

Stop Storage	
Cancel C:	

 Highlight the USB device you wish to stop and eject, using the ▲ and ▼ buttons on the IR Remote Control, then press the OK button. The Media Player will prompt you to confirm the operation:

Stop Storage	
Eject USB Device	
It will eject USB device. Do you continue?	
Yes No	

Select Yes to confirm the operation. Select No to cancel and return to the Main Menu.

5. If you select Yes, then the following screen will be displayed, indicating that you may now remove the USB device from the back of the Media Player:

It is now safe to remov	ve hardware
ок	

### **Directory and File Nomenclature**

The Hi-Def Digital Signage Media Player uses directories to organize schedules, playlists, and media content. A major part of how the Media Player behaves is governed by a set of three files:

- schedule.gsh
- playlist.gpl
- settings.xml

The local USB drive also contains three (3) directories:

- /media
- /playlists
- /schedules

The illustration below provides a summary of each of the three files, the location of the file on the USB drive, and how the relate to one another.



The /media directory is used to store your Digital Signage content.

An additional directory, /Logs, is automatically created by the Media Player. These log files provide a record of all events which have transpired and can be used to provide information during troubleshooting.

### **Renaming Files and Directories**

As mentioned earlier, three (3) directories must reside in the root directory of the USB drive at all times: /media, /playlists, and /schedules. The settings.xml file must always reside in the root directory.

The names given to each of the files and directories are provided as a guide and are by no means static. However, each of the files will reference a specific directory name. Therefore, if a directory name is changed, then the file which references that directory must also be changed to reflect the new information.

### Example 1:

The settings.xml file references the active schedule file, like so:

<activeSchedule value="/schedules/schedule.gsh" />

If the /schedules directory is renamed to /foo, then the activeSchedule value within the settings.xml file, must be changed to:

<activeSchedule value="/foo/schedule.gsh" />

### Example 2:

The schedule.gsh file may reference a *playlist* (or playlists), as follows:

<FileName>/playlists/playlist2.gpl</FileName>

If the /playlists directory is renamed to /foo2, then the schedule.gsh file must be edited to reference the correct *playlist* directory name:

<FileName>/foo2/playlist2.gpl</FileName>

The flexibility of renaming directories and files allows you to provide more meaningful names to the directory structure. The only exception is the settings.xml file.



**IMPORTANT:** The settings.xml file must *never* be renamed, moved, or deleted.

### **Operating Modes**

The Hi-Def Digital Signage Media Player can operate in one of two modes: Stand-alone Mode and Network Mode.

### Stand-Alone Mode

Use this mode if you want content played locally from the USB flash drive on the Media Player.

### **Network Modes**

- **Push Mode** Content is manually *pushed* to the Media Player from an FTP client.
- Pull Mode Pulls content from an FTP server (based on a schedule) to the Media Player.

When the Media Player is in Stand-Alone Mode, all content and operational information is taken from the USB drive. When the Media Player is in Network Mode, all files are located on an FTP server on the network.

We will cover both Stand-Alone and Network Mode for the Hi-Def Digital Signage Media Player. In the next section, we will begin with Stand-Alone Mode.

### Using Stand-Alone Mode

1. Connect the Hi-Def Digital Signage Media Player according to the instructions on page 11.



**STOP:** Make sure the USB storage device is connected to the Media Player *before* power is connected.

The Media Player comes pre-loaded with a demo playlist, schedule, and content. After the Hi-Def Digital Signage Media Player has finished booting, the pre-loaded content will begin playing.

2. Press the HOME button on the IR Remote Control to stop the playback of the content and access the Input PIN Code screen.



**NOTE:** You can also simply enter the PIN code from the IR Remote Control while content is playing, to display the Input PIN Code screen. Press the OK button to display the Main Menu.

3. Type in the PIN code:

Gefen	Input PIN co	ode to unlock the device	
	S/W Version: Ver.0.9.3	Current Time: 01/01/2010, 00:38	
	Input	PIN Code	
	*	* * -	
	Box's I	P: 192.168.2.116	

4. From the Main Menu, press the Eject button on the IR Remote Control. This button will safely eject the USB device before removal.



**WARNING:** Removing the USB device without ejecting may cause the storage device to become unreadable, resulting in the loss or corruption of content and related files.

Gefen 📭	6			
S/W	Version: Ver.0.9.1	Current Time: 0	1/01/2010, 00:28	
	EXIT OSD			
	Set Time/Time Zone/Dayl	ght Saving Time/Tin	ne Mode	
	Network			
	Change Device Name		Gefen Player	
	Set PIN code for locking lo	cal menu		
	Reset to default settings			
	Set FTP username/passw	ord for client		
				J
	Eject USB Device			
Eject USB Device		BACK		CUTRUS
Indicates that the g on the IR Remote ( used for safe remo USB device.	reen button Control is val of the		A OK	

Refer to page 15 for details on ejecting the USB drive from the Media Player.

- 5. Remove the USB device from the back of the Media Player and connect it to your computer.
- 6. On the USB drive, locate the schedule.gsh file under the /schedules directory.

Next, we will edit the Schedule file in order to change what is displayed on the screen.

### Viewing the Schedule File

1. Open the schedule.gsh file, located in the /schedules directory. Any plain text editor can be used (such as Windows® Notepad, etc).



**IMPORTANT:** Do not use a word processing program to edit the Schedule file, as this may introduce unwanted invisible control characters into the file.

2. Locate the <DefaultEvent> tag at the top of the file. The <DefaultEvent> and </DefaultEvent> tags must be present in the schedule.gsh file. At minimum, the four tags between the <DefaultEvent> tags must also be present:

<DefaultEvent> <DayOfWeek>....</DayOfWeek> <EventStart>....</EventStart> <EventEnd>....</EventEnd> <FileName>....</FileName> </DefaultEvent>

 The first thing we want to do is make sure that the *playlist* is executed on every day of the week. So, the <DayOfWeek> tag should contain the following information:

<DayOfWeek>1,1,1,1,1,1,1</DayOfWeek>

The number one ("1") means that the *playlist* will be executed on each day. Each day of the week is represented between the <DayOfWeek> opening and </DayOfWeek> closing tags (e.g. Monday, Tuesday, Wednesday, etc.). Use the number zero ("0") to skip certain days. For example, if you wanted the playlist to be executed every day *except* on the weekends (Saturday and Sunday), you would type:

<DayOfWeek>1,1,1,1,1,0,0</DayOfWeek>

4. Next, we want the *playlist* to be executed between the hours of 00:00:00 (12:00:00 midnight) and 23:59:59 (11:59:59 pm). This will ensure that the video content is played constantly without interruption. Therefore, <EventStart> and <EventEnd> tags should appear like this:

```
<EventStart>00:00:00</EventStart></EventEnd>11:59:59</EventEnd>
```

5. Next, the *playlist file* will be specified. Make sure to use the leading forwardslash in the path when specifying the full path to the *schedule file*.

```
<FileName>/playlists/playlist.gpl</FileName>
```



<FileName>/playlists/playlist.gpl</FileName>



<FileName>playlists/playlist.gpl</FileName>

As mentioned earlier, the playlist.gpl file can be renamed to something more meaningful, if you like. For now, the important thing to note is that both the filename and directory path are spelled correctly.

Let's look at what we have in our existing schedule.gsh file:



This is our *default event*. The schedule.gsh file *must* contain a default event, using the <DefaultEvent> and </DefaultEvent> tags. See page 29 for more information on the *default event*.

6. We did not make any changes to this file, so just close the file.

Next, we will edit the playlist.gpl file, and substitute the existing media with your own.



**NOTE:** Refer to the supported file formats and make sure that the media file(s) you are using is supported by the Media Player.

### **Editing the Playlist File**

- 1. Open the playlist.gpl file, located in the /playlists directory.
- 2. Locate the <media> tag at the top of the file. The <media> and </media> tags must surround each instance of video content.

```
<media>
<FileName>....</FileName>
</media>
```

 Type the full path (make sure to include a forward slash at the beginning of the path) to the video content, between the <FileName> opening tag and the </FileName> closing tag:

```
<FileName>/media/my_movie.mp4</FileName>
```

In this example, we only want to loop a single video file. However, if you need to play multiple video files, then each video file must be contained within its own <media> and </media> tags.

Example of multiple media files in a playlist:

```
<media>
<FileName>/media/my_moviel.mov</FileName>
</media>
<media>
</media>
<media>
<fileName>/media/movies/blockbuster.avi</FileName>
</media>
</media>
</media>
</media>
</media>
</media>
```

### Viewing the Settings.xml File

Finally, we're going to take a quick look at the settings.xml file. The
settings.xml file contains all the information on how the Hi-Def Digital
Signage Media Player operates. Within the settings.xml file, the active
schedule must be specified:

- 1. Open the settings.xml file, located in the root directory of the USB drive.
- 2. Locate the <schedule> and </schedule> tags, near the bottom portion of the file:

```
<schedule>
  <activeSchedule value="....." />
</schedule>
```

3. Make sure that the <activeSchedule> tag contains the following information:

<activeSchedule value="/schedules/schedule.gsh" />

Double-quotes must surround the full path to the schedule file.

4. Close the settings.xml file.

### **Checking our Work**

Before inserting the USB drive into the USB port of the Hi-Def Digital Signage Media Player, let's check to make sure everything is in order:

- 1. The settings.xml file should be in the root directory of the USB drive and should reference the *active schedule* file (schedule.gsh).
- 2. The schedule.gsh file should be in the /schedules directory. The schedule file should reference the playlist.gpl file.
- The playlist.gpl file should be located in the /playlist directory. The playlist file should reference the media file you are going to play. In our example, we used my\_moviel.mp4.
- The media file (my\_moviel.mp4) specified in the playlist.gpl file should be placed in the /media directory.

5. The root directory of the USB drive should look something like this:

Fi	lename	Filesize	Filetype
1			
1	 media		File folder
1	playlists		File folder
1	schedules		File folder
2	settings.xml	2,472	XML Doc

 After you have verified everything, eject the USB drive from your computer before removing it. If the USB drive is removed without ejecting it, data loss and/or data corruption may occur.

Format
Eject
Cut
Сору
Paste
Rename
New 🕨
Properties

7. Disconnect power from the Media Player. Never connect the USB drive while the Media Player is powered.

After the Media Player has finished booting, the media content will begin to play.

Congratulations! You have just created your first Digital Signage application using the Hi-Def Digital Signage Media Player. However, this is just the beginning and is only a very simple example. The Hi-Def Digital Signage Media Player has several more features which we will cover in the following sections.

To stop the playback of the video, press the HOME button and enter the PIN code. Pressing the HOME button and entering the correct PIN code will always take you to the Main Menu.

### Adding More Video Content to the Playlist

Running only one selection of video content may not always be what you want to do. The Hi-Def Digital Signage Media Player is capable of playing several pieces of video content. Here's how to add more than one file to the playlist:

- 1. Safely eject and remove the USB drive from the Media Player, then plus the USB drive into an available USB port on your computer.
- 2. Open the playlist.gpl file, located in the /playlist directory.
- 3. Create an additional <media> tag below the first set of <media> tags, and specify the next piece of video content:

```
<media>
<FileName>/media/my_movie.mp4</FileName>
</media>
<media>
<FileName>/media/movie2.mp4</FileName>
</media>
```



**NOTE:** Always create a separate <media> tag for each media file to be played. Only one media file can be specified within the <media> and </media> tags.

4. Save the playlist.gpl file to the /playlists directory.

### Changing the Playlist Order

When the playlist.gpl file is read by the Hi-Def Digital Signage Media Player, the file is read from top to bottom. So, in the example above, movie2.mp4 will be played after my\_movie.mp4. If you want to play movie2.mp4 before my\_movie.mp4, edit the playlist.gpl file so it appears like this:

```
<media>
<FileName>/media/movie2.mp4</FileName>
</media>
<media>
<FileName>/media/my_movie.mp4</FileName>
</media>
```

### **Scheduling Content**

We've already seen how we can play one or more media files and loop them. However, we can also specify a when the playback will begin and end.

- 1. Open the schedule.gsh file, located in the /schedules directory.
- 2. Insert the following two lines between the <DefaultEvent> and </DefaultEvent> tags. Make sure that the current date is entered in m/d/yyyy format:

```
<StartDate>6/23/2011</StartDate>
<EndDate>6/23/2011</EndDate>
```

For this example, the range of dates will only be one day.

 Next, add the time frame in which you want the video content to play. We've already seen the <EventStart> and </EventStart> tags in our first example. Specify the time in HH:MM:SS format:

```
<EventStart>13:00:00</EventStart><EventEnd>13:30:00</EventEnd>
```

In the example above, we've set the video content to play from 1:00 pm - 1:30 pm in the afternoon. Note that you can specify the time range within an accuracy of 1 second, if so desired.

Our schedule.gsh file should now look something like this:

```
<DefaultEvent>
  <DayOfWeek>1,1,1,1,1,1,1</DayOfWeek>
  <StartDate>6/23/2011</StartDate>
  <EventStart>13:00:00</EventStart>
  <EventEnd>13:30:00</EventEnd>
  <FileName>/playlists/playlist.gpl</FileName>
</DefaultEvent>
```

The only difference between this example and our first example (page 23) is that we've introduced the <StartDate> and <EndDate> tags to specify the period of days in which to run the video content. The content specified in the playlist.gpl file will still loop but will only be presented for 30 minutes.



**NOTE:** If two video events overlap one another, the Media Player will stop playback of the current media file and begin playback of the next media file according to the schedule.

### Understanding the Default Event

As mentioned earlier, the schedule.gsh file must always contain a *default event*. The important thing to remember when using Digital Signage is that something (some media) should be displayed at all times. A Digital Signage application with nothing displayed defeats the whole purpose of the application. Therefore, the *default event* should display media content when other content is not scheduled to be played.

### Example:

Let's say we have a Digital Signage application in a retail store. Our store hours are from 9 - 6 everyday. We want Digital Signage playing during store hours and after store hours. However, we want different signage played after hours. Here's one way of setting this up:

When our store is closed, our main Digital Signage will no longer be displayed, so the *default event* will be used to "fill in the gap" when our store is closed. Since we want this played every day of the week, we would set the information between the <DayOfWeek> opening and closing tags to: 1,1,1,1,1,1,1. The *default event* will begin at 6:00 pm each night, and will end at 8:59:59 each morning.

```
<DefaultEvent>
    <DayOfWeek>1,1,1,1,1,1,1/DayOfWeek>
    <EventStart>18:00:00</EventStart>
    <EventEnd>08:59:59</EventEnd>
    <FileName>/playlists/closed.gpl</FileName>
</DefaultEvent>
```

After that time, our normal content would be played. Our normal content would then begin at 9:00 am and continue until 5:59:59 pm. Note that the *default event* does not contain the <StartDate> and <EndDate> opening and closing tags. Since we want this event to play this event all the time, no matter what day it is, it is unnecessary to specify the dates.

```
<Event>

<StartDate>10/1/2011</StartDate>

<EndDate>10/31/2011</EndDate>

<DayOfWeek>1,1,1,1,1,1</DayOfWeek>

<EventStart>09:00:00</EventStart>

<EventEnd>17:59:59</EventEnd>

<FileName>/playlists/open.gpl</FileName>

</Event>
```

This is only one example of using the *default event*. One example of extending the flexibility of this Digital Signage application might be to add events that would only be played on Saturdays and Sundays.

### **Using Network Mode**

Use Network Mode when the Digital Signage requirement are:

- Playback and looping of media files
- Scheduling and playlist capability
- Remote content management using the built-in FTP client / server (push / pull mode)



**NOTE:** You should already be familiar with the schedule.gsh, schedule.gpl, and settings.xml files and how they work. If not, refer to the *How the Hi-Def Digital Signage Media Player works* section on pages 17 and 18.

### The FTP Client and FTP Server

The Hi-Def Digital Signage Media Player contains a built-in FTP server and an FTP client. To use the FTP functionality of the Hi-Def Digital Signage Media Player, you will first need to install and configure an FTP server and client on the computer that will connect to the unit. There are many programs that can be downloaded from the Internet that will serve this purpose.

### Push Mode

In this first section, we will discuss *Push Mode*. When we refer to *Push Mode*, we are describing a process whereby content is (manually) "pushed to" the Hi-Def Digital Signage Media Player using an FTP client. In this configuration, the Hi-Def Digital Signage Media Player becomes the FTP server.

Configuring *Push Mode* on the Hi-Def Digital Signage Media Player can be changed through the OSD or can be changed, directly, from within the settings.xml file. Both methods will be presented.



**STOP:** Before making any changes to the Hi-Def Digital Signage Media Player, through the OSD, the USB drive must be connected to the unit.

Method 1: Configuration using the OSD

1. Open the OSD and select the **Network** option.

Gefen 💵		
S/W	Version: Ver.0.9.1 Current Tir	me: 01/01/2010, 00:28
	EXIT OSD	
	Set Time/Time Zone/Daylight Saving Tim	e/Time Mode
	Network	
	Change Device Name	Gefen Player
	Set PIN code for locking local menu	
	Reset to default settings	
	Set FTP username/password for client	
Eject USB Device		

 Select either DHCP IP (AUTO) which automatically assigns the IP address from the pool. The FIX IP (MANUAL) option will require you to provide the correct IP address, Subnet mask, Default Gateway, and DNS server address.

Gefen DS	Network -> Wired Lan Setup	
	DHCP IP (AUTO)	
	FIX IP (MANUAL)	
	OK Select	➡ Back

3. Press the **OK** button on the IR Remote to accept the changes.

4. Select the Set FTP username / password for client option.

Gefen DS			
S/W	/ersion: Ver.0.9.1 Current	Time: 01/01/2010, 00:28	
	Change Device Name	Gefen Player	
	Set PIN code for locking local menu		
	Reset to default settings		
	Set FTP username/password for clien	t	
	Set FTP username/password for serv	er	
	Enable/Disable FTP server/client		
	Network pull for testing		
<b>E</b>	ject USB Device		

5. Enter the desired user name and password in the respective fields:

Gefen	Set FTP username/password for client
	Enter Username
	Enter Password
	ок
	Input FTP username and password for client.
	Back OK OK

6. Press the **OK** button on the IR Remote to accept the changes. Select the **Back** button to return to the main menu of the OSD.

7. Select the Enable / Disable FTP server / client option.

Gefen DS		
S/W V	ersion: Ver.0.9.1 Current Time: 01/01/2010, 00:28	
	Set PIN code for locking local menu	
	Reset to default settings	
	Set FTP username/password for client	
	Set FTP username/password for server	
	Enable/Disable FTP server/client	
	Network pull for testing	
	Manual firmware update via USB	
Ej	ject USB Device	

 Select the Enable / Disable FTP Server option. Press the OK button on the IR Remote Control until it is set to Enable, then press the Back button on the IR Remote Control.

Gefen DS	Enable/Disable FTP server/client	
	Enable/Disable FTP Client	Enable
	OK Selec	t ⊃ Back

Since we're not using the FTP client (on the Hi-Def Digital Signage Media Player), the **Enable / Disable FTP Client** option can be set to either state. This will not affect the functionality of *Push Mode*.

9. Press the OK button on the IR Remote to accept the changes.

Method 2: Configuration using the settings.xml file



**ADVANCED:** Before editing the *settings.xml* file, it is recommended that you are familiar with XML (eXtended Markup Language). If you are unfamiliar with XML, you should review pages 45 and 46 before continuing.

1. Open the settings.xml file and locate the <ipConfig> section:

```
<name value="Gefen Player" />
<ipConfig>
<ipMode value="manual" />
<automatic />
<manual>
<ip value="192.168.2.238" />
<subnet value="255.255.255.0" />
<gateway value="0.0.0.0" />
<dns1 value="4.2.2.2" />
<dns2 value="8.8.8.8" />
</manual>
</ipConfig>
```

- 2. DHCP or a static IP address can be used:
  - a) If DHCP is being used, then set the <ipMode value> tag to automatic. Any information under the <manual> tag will be ignored.
  - b) If a static IP is being used, then the <ipMode value> tag should be set to the IP address that will be assigned to the Hi-Def Digital Signage Media Player. In addition, Subnet, Gateway, and DNS server values will need to be specified.
- 3. Next, locate the <pushConfig> tags:

```
</timeConfig>
<pushConfig>
<pushMode value="enable" />
<disable />
<enable>
<userName value="User" />
<userPass value="Pass" />
<port value="21" />
</pushConfig>
<pullMode value="enable" />
```

- 4. Set the pushMode attribute to enable. Then, set the userName and userPass attributes to the desired values. For most scenarios, the port value should be set to 21.
- 5. Save the file to the USB drive.



**STOP:** Before inserting the USB drive back in the Hi-Def Digital Signage Media Player, make sure you disconnect the power to the unit. The USB drive must be connected to the Hi-Def Digital Signage Media Player before power-up, in order for the new settings to take effect.

### **Configuring the FTP Client**

 In the FTP client on your computer (or on the dedicated FTP server), enter the IP address of the Hi-Def Digital Signage Media Player in the host name field.

IP address of Hi-Def Digital Signage Media Player		
General Ad	vanced Transfer Settings Charset	
Host:	192.168.2.238 • Port: 21	
Protocol:	FTP - File Transfer Protocol 🔹	
Encryption:	Use plain FTP 🔹	
Logon Type:	Normal	
User:	User	
Password:	••••	
Account:		
Comments:		
	*	
	*	

2. Enter the user name and password that were created on page 32.

General Adv	vanced Transfer Settings Charset	
Host:	192.168.2.238 Port: 21	
Protocol:	FTP - File Transfer Protocol 🔹	
Encryption:	Use plain FTP 🔹	
Logon Type:	Normal	
User:	User	User name
Password:	••••	Password
Account:		
Comments:		
	*	
	-	

3. Connect to the Hi-Def Digital Signage Media Player using your FTP client. Once connected, you should see a directory listing similar to the following:

Filename	Filesize	Filet	ype
J			
📕 sdal		File	folder

4. To see the contents of the Hi-Def Digital Signage Media Player storage device, change to the /sda1 directory:

Filename		Filesize	Filetype	
1				
1	Logs		File folder	
1	media		File folder	
1	playlists		File folder	
1	schedules		File folder	
	settings.xml	2,472	XML Doc	

5. To make changes to the current schedule or playlist, make changes locally on your computer, then upload the new files to their respective directories. Media files can also be added. Any changes will automatically take place once the Hi-Def Digital Signage Media Player finishes executing the current schedule and/or playlist.



**NOTE:** If the settings.xml file has been changed, then the Hi-Def Digital Signage Media Player must be power-cycled for the new changes to take effect.

Once the FTP client (or dedicated FTP server) has been configured and can "see" the Hi-Def Digital Signage Media Player on the network, files can be uploaded to the directory.

Make sure that the following directory structure is observed. If you change the directory names, make sure that the schedule files and playlist files point to the correct directory path.



The (default) directory structure as viewed from the FTP server

### Pull Mode

In this next section, we will discuss *Pull Mode*. When we refer to *Pull Mode*, we are describing a process whereby content is (automatically) "pulled from" an FTP server to the Hi-Def Digital Signage Media Player. In this configuration, the Hi-Def Digital Signage Media Player becomes the FTP client. *Pull Mode* is highly desirable when managing multiple units on a network: Instead of uploading new content manually to each box, Pull Mode can be used to schedule the transfer of new / updated content on a daily or hourly basis.

Configuring *Pull Mode* on the Hi-Def Digital Signage Media Player can be changed through the OSD or from within the settings.xml file. Both methods will be presented here.



**STOP:** Before making any changes to the Hi-Def Digital Signage Media Player, through the OSD, make sure that the USB drive is connected to the Media Player.

### Method 1: Configuration using the OSD

1. Open the OSD and select the **Network** option.

Gefen DS
S/W Version: Ver.0.9.1 Current Time: 01/01/2010, 00:28
EXIT OSD
Set Time/Time Zone/Daylight Saving Time/Time Mode
Network
Change Device Name Gefen Player
Set PIN code for locking local menu
Reset to default settings
Set FTP username/password for client
Eject USB Device

 Select either DHCP IP (automatically assigns the IP address from the pool) or FIX IP. The FIX IP option will require you to provide the correct IP address, Subnet mask, Default Gateway, and DNS server address.

- 3. Press the OK button to accept the changes.
- 4. Select the Set FTP username / password for server option.

Gefen DS		
S/W	Version: Ver.0.9.1 Current Time: 01/01/2010, 00:28	
	Set PIN code for locking local menu	
	Reset to default settings	
	Set FTP username/password for client	
	Set FTP username/password for server	
	Enable/Disable FTP server/client	
	Network pull for testing	
	Manual firmware update via USB	
	Eject USB Device	

5. Enter the desired user name and password in the respective fields. If no user name of password currently exists, the *Current Username* and *Current Password* fields may be left blank.

**IMPORTANT:** Do not use *special characters* (@,#,&, etc) when creating a password. The Media Player will be unable to connect to the server while in Pull Mode if *special characters* are used.

Gefen 具	Set FTP username/password for server
	Current Username
	Current Password
	New Username
	New Password
	ок
In	put FTP Server username and password to change new one.
	OK Select 🗂 Back

6. Press the **OK** button on the IR Remote to accept the changes. Select the **Back** button to return to the main menu of the OSD.

7. Select the Enable / Disable FTP server / client option.

Gefen DE	
S/W V	ersion: Ver.0.9.1 Current Time: 01/01/2010, 00:28
	Set PIN code for locking local menu
	Reset to default settings
	Set FTP username/password for client
	Set FTP username/password for server
	Enable/Disable FTP server/client
	Network pull for testing
	Manual firmware update via USB
Ej	ect USB Device

 Select the Enable / Disable FTP Server option. Press the OK button on the IR Remote Control until it is set to Enable, then press the Back button on the IR Remote Control.

Gefen	Enable/Disable FTP server/client	t
	Enable/Disable FTP Server	Enable
	Enable/Disable FTP Client	Enable
	OK Sele	ect 🗅 Back

9. Press the OK button on the IR Remote to accept the changes.

Method 2: Configuration using the settings.xml file



**ADVANCED:** Before editing the *settings.xml* file, it is recommended that you are familiar with XML (eXtended Markup Language). If you are unfamiliar with XML, you should review pages 45 and 46 before continuing.

1. Open the settings.xml file and locate the <ipConfig> section:

```
<name value="Gefen Player" />
<ipConfig>
   <ipMode value="manual" />
   <automatic />
   <manual>
        <ip value="192.168.2.238" />
        <subnet value="255.255.255.0" />
        <gateway value="0.0.0.0" />
        <dns1 value="4.2.2.2" />
        <dns2 value="8.8.8.8" />
        </manual>
<//ipConfig>
<osdConfig>
```

- 2. DHCP or a static IP address can be used:
  - a) If DHCP is being used, then set the <ipMode value> tag to automatic. Any information under the <manual> tag will be ignored.
  - b) If a static IP is being used, then the <ipMode value> tag should be set to the IP address that will be assigned to the Hi-Def Digital Signage Media Player. In addition, Subnet, Gateway, and DNS server values must be specified.
- 3. Next, locate the <pullConfig> tags:

```
<pullConfig>
<pullMode value="enable" />
<disable />
<enable>
<pullURL value="192.168.2.70" />
<settingPull value="192.168.2.70" />
<schedulePull value="192.168.2.70/schedules" />
<playlistPull value="192.168.2.70/playlists" />
<contentPull value="192.168.2.70/media" />
<pullLogUpload value="192.168.2.70" />
```

```
. . .
```

4. Set the pullMode attribute to enable.

5. Next, set the IP address of the server used to hold the content for the following attributes:

```
<pullConfig>
  <pullMode value="enable" />
  <disable />
  <enable>
   <pullURL value="192.168.2.70" />
    <settingPull value="192.168.2.70" />
    <schedulePull value="192.168.2.70/schedules" />
    <playlistPull value="192.168.2.70/playlists" />
    <contentPull value="192.168.2.70/media" />
    <pullLogUpload value="192.168.2.70" />
    ...
    ...
    ...
```

Note that the attribute values for schedulePull, playlistPull, and contentPull contain a path to a directory. These directories will be set up on the FTP server which we will cover in this section.

6. Enter the userName and userPass attributes to the desired values. These values will also be used by the FTP server. For most scenarios, the value of the port attribute should be set to 21.



7. Under the pullSchedule tag, the pullRepeat attribute value can be set to hourly or daily, or none. See page 52 for more information.

If the pullRepeat attribute is set to daily, set the time value under the <daily> tag to the time which the Hi-Def Digital Signage Media Player will connect to the FTP server and retrieve updated content.

If the pullRepeat attribute is set to hourly, set the time interval, under the <hourly> tag, in which the Hi-Def Digital Signage Media Player will connect to the FTP server and retrieve updated content. The minimum time interval is one minute (00:01) when the pullRepeat attribute is set to "hourly".

```
...
<pullSchedule>
<pullRepeat value="hourly" />
<none />
<daily>
<time value="20:00" />
</daily>
<hourly>
<time value="00:01" />
</hourly>
</pullSchedule>
</pullConfig>
...
```



**NOTE:** If the time interval is set to 00:00 when the pullRepeat attribute is set to hourly, then the update process will not occur. When set to "daily", the time value can be set to "00:00" which corresponds to 12 am midnight.

### **Configuring the FTP Server**

The following covers the configuration process for the FTP server. This process applies whether you are running FTP server software on a PC on a network or have a dedicated FTP server.

 The first step is to create the path and permissions to the directory which the Hi-Def Digital Signage Media Player will be accessing. In our example from the settings.xml file, we specified the following:

In the example above, the IP address of the FTP server is 192.168.2.70.

 Create a local directory structure on the FTP server. The directory structure must be <u>identical</u> to the directory structure on the USB drive. The settings.xml file must exist in the root directory, as shown below:

Filename		Filesize	Filetype	
1				
	Logs		File folder	
	media		File folder	
	playlists		File folder	
	schedules		File folder	
1	settings.xml	2,472	XML Doc	

3. Configure the FTP server to point to the above directory structure. Only the parent directory should be specified.

For example, if you create a parent directory called /foo, the /media, /playlists, and /schedules directory should reside under the /foo directory.

### Understanding the SETTINGS.XML file

The settings.xml contains all the settings used by Hi-Def Digital Signage Media Player. This file can be edited directly, allowing you to set the output resolution, the active schedule, in addition to several other options such as NTP server assignment, *push mode* and *pull mode*. Many of these settings can also be modified using the built-in menu system.

The settings.xml file is located in the root directory of the USB drive and can be edited using any standard text editor.

Fi	lename Filesize Filetyp		Filetype
1			
111	 Logs media playlists		File folder File folder File folder
1	schedules		File folder
5	settings.xml	2,472	XML Doc

A portion of the settings.xml file is shown below:

```
<settings>
    <devConfiq>
        <name value="Gefen Player" />
    </devConfig>
    <ipConfig>
        <ipMode value="manual" />
        <automatic />
        <manual>
            <ip value="192.168.2.238" />
            <subnet value="255.255.255.0" />
            <gateway value="0.0.0.0" />
            <dns1 value="4.2.2.2" />
            <dns2 value="8.8.8.8" />
        </manual>
    </ipConfig>
    <osdConfig>
        <osdLock value="enable" />
        <disable />
        <enable>
            <pinConfig>
                 <pin value="0000" />
            </pinConfig>
        </enable>
    </osdConfig>
    <timeConfig>
```

The settings.xml is constructed as a typical XML file:

The beginning of the settings.xml file begins with an XML declaration:

```
<?xml version="1.0" encoding="UTF-8" ?>
```

The XML declaration is followed by a <settings> *start-tag.* The end of the file contains a </settings> *end-tag.* All other tags and attributes are contained within these two tags, creating the following structure:

```
<?xml version="1.0" encoding="UTF-8" ?>
<settings>
...
...
</settings>
```

An XML attribute is a markup containing both a name and a value, which can be edited to change the behavior of the Hi-Def Digital Signage Media Player. When modifying the settings.xml file, only the Attribute Value should be changed-never change the Attribute Name. An example of a XML attribute would be:





**WARNING:** *Do not* modify the Attribute Name. Changing the Attribute Name will result in errors or undesirable results.

The Attribute Value must always be surrounded by double quotes. The beginning of an XML Attribute must be prefixed with a less-than symbol (<) and must end with a forward slash (/) followed by a greater-than symbol (>).

The next section provides a summary of each section of the settings.xml file and the attributes.

### **Device Name**

Tag Name:	<devconfig></devconfig>	
Description:	Allows you to change the name of the device.	
Attributes:	name	
Example:	<devconfig> <name value="Gefen Player"></name> </devconfig>	

### **IP Configuration**

Tag Name: <ipConfig>

**Description**: Allows you to specify automatic (DHCP) or manual (FIXED IP) configuration of the Hi-Def Digital Signage Media Player.

- Attributes: ipMode ip subnet
  - gateway dns1 dns2

Notes: In the example above, manual configuration has been selected. If DHCP is used, the ipMode value attribute should be set to "automatic". Any information under the <manual> tag will be ignored.

### **OSD PIN Code**

Tag Name: <osdConfig>

**Description**: Allows you to change or disable the PIN code for the OSD.

- Attributes: osdLock pin
- Notes: Once the PIN code has been changed in the settings.xml file, the Hi-Def Digital Signage Media Player must be power-cycled after inserting the USB drive.

### **Time Configuration**

Tag Name: <timeConfig>

**Description**: Allows you to set the time zone and mode.

- Attributes: timeZone daySavings timeMode ntpServ1 ntpServ2

Notes: Once the time zone or time mode has been changed using the settings.xml file, the Hi-Def Digital Signage Media Player must be power-cycled after inserting the USB drive.



**WARNING:** When using schedules, it is highly recommended that an NTP server be used to maintain all time settings. If the Hi-Def Digital Signage Media Player experiences a power loss after setting the time manually, the clock will reset, causing any schedules and playlists to be executed at the incorrect time.

### **Push Mode Configuration**

Tag Name: <pushConfig>

**Description**: Allows configuration of push mode and setting of user name and password.

Attributes: pushMode userName userPass port

### **Pull Mode Configuration**

Tag Name: <pullConfig>

**Description**: Allows you to modify *Pull Mode* settings in network mode.

Attributes: pullMode pullURL schedule plavlist

pullURL
schedulePull
playlistPull
contentPull
pullLogUpload
userName
userPass
port
syncMedia
syncPlaylist
syncSchedule

### Example:

```
<pullConfig>
   <pullMode value="enable" />
   <disable />
   <enable>
      <pullURL value="192.168.2.70" />
      <settingPull value="192.168.2.70" />
      <schedulePull value="192.168.2.70/schedules" />
      <playlistPull value="192.168.2.70/playlists" />
      <contentPull value="192.168.2.70/media" />
      <pullLogUpload value="192.168.2.70" />
      <userName value="User" />
      <userPass value="Pass" />
      <port value="21" />
      <syncMedia value="disable" />
      <syncPlaylist value="disable" />
      <syncSchedule value="disable" />
   </enable>
   . . .
   . . .
</pullConfig>
```

**Notes**: The syncMedia attribute enables / disables the syncing of media from the server to the Media Player. The two examples below illustrate the difference between disabling and enabling the syncMedia attribute. Note that when the syncMedia attribute is enabled, the Media player will receive the new content and erase the current content from the Media Player.



#### <syncMedia value="enable">



The syncSchedule and syncPlaylist attributes function in the same manner as the syncMedia attribute. If either of these attributes are enabled, then the new Schedule file and/or Playlist(s) will be updated from the server to the Media Player. The current schedule file and playlist(s) will be replaced with the new files.



WARNING: It is *not* recommended that you change the schedule filename. The schedule file is referenced within the settings.xml file. If the schedule filename is changed, then the settings.xml file must be modified, manually, to reflect the new schedule filename. The syncSchedule does not automatically update the settings.xml file with a new schedule filename.

### **Pull Schedule Configuration**

 Tag Name:
 <pullSchedule>

 Description:
 Located within the <pullSchedule</td>

**Description:** Located within the <pullSchedule> opening and closing tags. This section allows you to specify when content is pulled on a daily or hourly basis.

Attributes: pullRepeat time (daily) time (hourly)

Example: <

```
</pullConfig>
```

If you want to only pull content on a daily basis, then set the pullRepeat attribute to "daily" then set the time value under the <daily> tag. Conversely, if you want to pull content on an hourly basis, then set the pullRepeat attribute to "hourly" and set the time value under the <hourly> tag.

In the example above, the pullRepeat value is set to "hourly" and will pull from the server every 20 minutes. This value can be changed by 1-minute increments.

If the <code>pullRepeat value</code> was set to "daily", then the Media Player would pull content each day at 10:00 am. Note that "daily" time values are based on a 24-hour clock.

To disable Pull mode, set the pullRepeat value to "none".

### Setting the Active Schedule

Tag Name:	<schedule></schedule>
Description:	Sets the active schedule.
Attributes:	activeSchedule
Example:	<schedule> <activeschedule value="/schedules/&lt;br&gt;schedule.gsh"></activeschedule> </schedule>

### **Display Configuration**

Tag Name: <display>

**Description**: Sets the output resolution and enables / disables underscan.

Attributes: output videoReduceSize

Example: <display>
 <output value="NTSC10801" />
 <NTSC720P />
 <NTSC1080I />
 <NTSC1080P />
 <PAL720P />
 <PAL720P />
 <PAL1080I />
 <PAL1080P />
 <videoReduceSize value="enable" />
 <disable />
 <enable />
 </display>

**Notes**: In the example above, 1080i is the output resolution. All available output resolutions are listed below the output attribute. Both NTSC and PAL formats are supported.

The videoReduceSize attribute enables / disables underscan mode. In this example, underscan is enabled. Set the videoReduceSize attribute to "disable" to bypass underscan mode.

### **Reboot Configuration**

- Tag Name: <rebootConfig>
- **Description**: This option can be used in rare cases when the Media Player has exhibited abnormal behavior and performing a reboot return the Media Player to normal operation. The reboot time should be set when content is not scheduled to play. After the reboot procedure is executed, the Media Player will continue with the current schedule.
- Attributes: reboot rebootTime

### Updating the Firmware

- 1. Copy the install.img file to the root directory of the USB drive.
- 2. Insert the USB drive into the USB port on the Hi-Def Digital Signage Media Player.
- 3. Enter the OSD and select Manual firmware update via USB.

Gefen DS			
SA	V Version: Ver.0.9.1 Current Time: 01/01/2010, 00:28		
	Set PIN code for locking local menu		
	Reset to default settings		
	Set FTP username/password for client		
	Set FTP username/password for server		
	Enable/Disable FTP server/client		
	Network pull for testing		
	Manual firmware update via USB		
Eject USB Device			

4. Press the OK button on the IR Remote.

After the OK button has been pressed, the following screen will be displayed. Click the OK button to proceed with the firmware update process.

Gefen 📑	USB upgrade
S/M	This unit will reboot after the updating procedure. This process can take up to 5 minutes. Do not remove the USB device or unplug the unit during this process. Do you want to update?
	Current:Ver.0.9.3 New:Ver.0.9.4
	Scroll up 🧾 Scroll down
	Cancel

If both the firmware version on the USB drive and the Media Player are the same, then the Media Player will not perform the update process.

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**WARNING:** Do *not* disconnect power or remove the USB drive during the firmware update process. Doing so may cause the unit to function improperly or lock up in an unrecoverable state.

5. The following set of screens will be displayed as the update process is taking place:

Start Installation(rev:303707)

6. After the update process has completed successfully, the following screen will be displayed. The Hi-Def Digital Signage Media Player will then return to the Input PIN Code screen.



Maximum Pixel Clock	225 MHz
Video Output Connectors (1) HDMI Type A 19-pin, female, (1 RCA-type, (1) Composite, RCA-type, (1) L/R, RCA-type	) Component,
Audio Output Connector	(1) TOSLINK
Ethernet Connector	RJ-45, Shielded
USB Output Connectors	USB 2.0, type A
Power Supply	12V DC, 3A
Power Consumption	10 W (max.)
Operating Temperature	0 ~ 40 °C
Dimensions	( 5.1" D x 1.6" H
Shipping Weight	4 lbs.

Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

- 1. Proof of sale may be required in order to claim warranty.
- 2. Customers outside the US are responsible for shipping charges to and from Gefen.
- 3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at www.gefen.com.

### PRODUCT REGISTRATION

### Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.

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This product uses UL listed power supplies.

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