

Section 4

System Configuration

Browser Interface

Kaleidescape Systems are configured through the browser interface with two main links: installer pages and user pages.

- ▶ **Installer pages** are primarily used for initial setup during installation and are used to set the following parameters:
 - Server status and system information
 - Network settings
 - Video and audio settings
 - Region codes
- ▶ **User pages** are used for user settings such as managing movie and music libraries, creating scripts, collections and mix albums, and setting parental control level.

Accessing the Browser Interface

There are three primary ways to access the installer pages: System URL, serial number URL, and server IP address.

- **System URL**

<http://my-kaleidescape/installer> (Windows) or
<http://my-kaleidescape.local/installer> (Mac)

- **Serial number URL**

[http://ks-\[server_serial_number\]/installer](http://ks-[server_serial_number]/installer) (Windows) or
[http://ks-\[server_serial_number\].local/installer](http://ks-[server_serial_number].local/installer) (Mac)

Replace [server_serial_number] with the 12-digit serial number of the server. For example, to access the browser interface of a server with the serial number **0000 0001 2345**, enter
<http://ks-000000012345/installer>.

- **IP address of the server**

[http://\[server_IP_address\]/installer](http://[server_IP_address]/installer)

User pages are accessed without the [/installer](#) in the URL.

Troubleshooting if the Browser Interface Does Not Load

If using a Windows operating system and the web browser cannot load the browser interface using one of the methods above. Refer to [Network Requirements on page 153](#).

Viewing System Information

After the Kaleidescape server is installed, powered on, and has an active network link, use the following procedure to check server status and change settings for the installation site.

1. Open the installer pages of the browser interface.
 - a. With a single Kaleidescape System on the network, open a web browser and enter <http://my-kaleidescape/installer> (Windows) or <http://my-kaleidescape.local/installer> (Mac).
- Note:** The System URL has the name **my-kaleidescape** but that name can be changed on the **PREFERENCES** tab. If the System URL has been changed, use the new address.
- b. If setting up separate (non-grouped) systems, each with a dedicated server on the same subnet, and System URLs have not been changed, use an address beginning with **ks-** followed by all twelve digits of the server serial number.

Example:

<http://ks-00001000040b/installer> (Windows) or
<http://ks-00001000040b.local/installer> (Mac)

2. If a login page appears, enter the installer password if necessary and click **LOGIN**.

Note: This step is not necessary if no password was set.

The installer **HOME** page appears, displaying basic system status information. See [Figure 4-1](#). (If a different installer page appears, select the **HOME** tab.)

The left side of the page lists all Kaleidescape components in the system.

3. Verify that the connection is to the correct server by checking the serial number listed.

The **HOME** page also shows software version, number of movies and albums on the server, as well as storage capacity and usage.

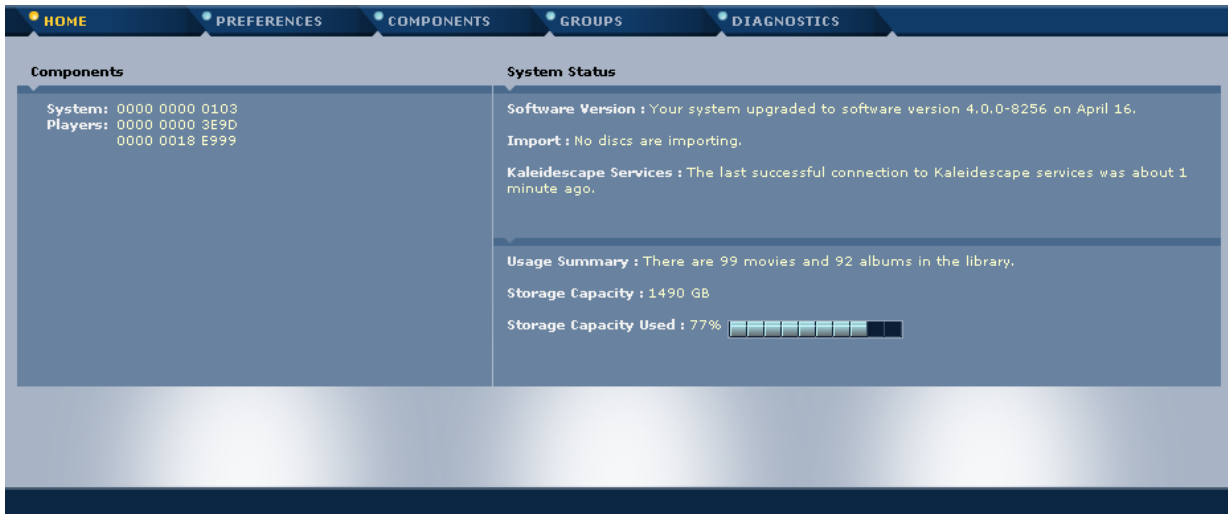


Figure 4-1 Installer HOME Page

If a component has a problem, an alert appears on every page of the browser interface. [Figure 4-2](#) shows an example alert.

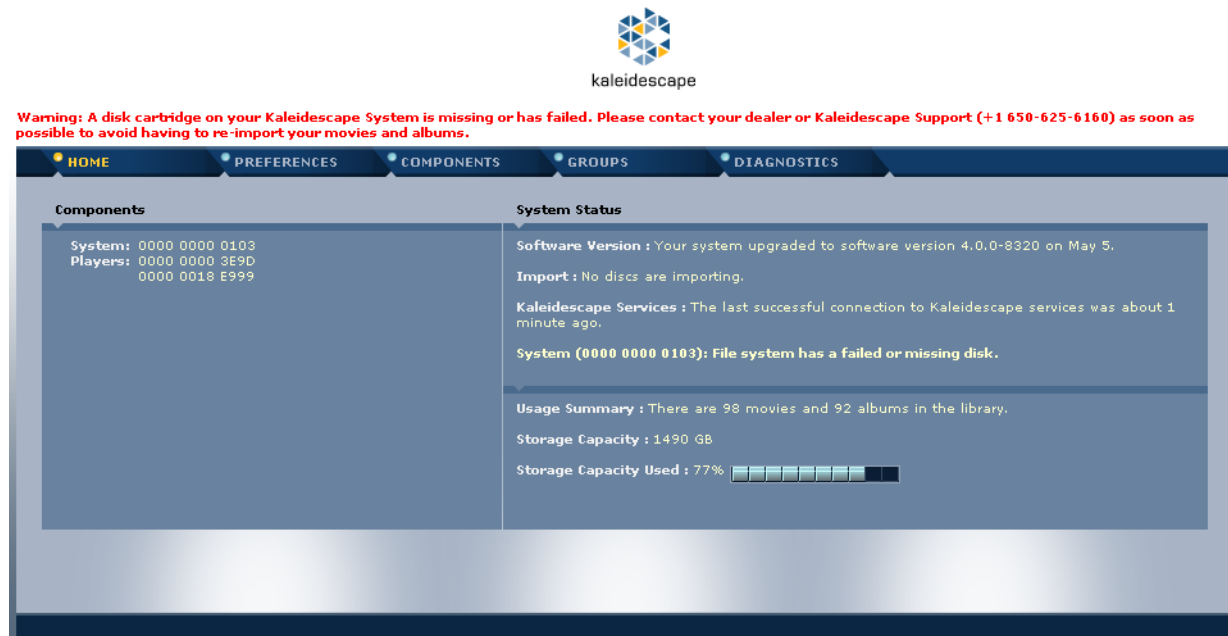


Figure 4-2 Example of a Browser Interface Alert

Setting System Preferences

Use the following procedure to set system preferences.

1. Open the installer pages of the browser interface.
2. Select the **PREFERENCES** tab. See [Figure 4-3](#).

The screenshot shows the 'General Preferences' section of the Kaleidescape interface. It includes fields for 'System URL' (set to 'my-kaleidescape'), 'Time Zone' (set to '(UTC-8:00) Pacific Time'), and 'Music Zone Control' (with two radio buttons: 'Only control the local music zone from the onscreen display' and 'Control all music zones from the onscreen display'). There is also an 'HTTP Proxy Server (optional)' field. Below this is the 'Password Preferences' section, which has an 'Installer Password' subsection with fields for 'Old Installer Password', 'New Installer Password', and 'Confirm New Installer Password', and a 'User Password' subsection with a 'Reset User Password' button.

Figure 4-3 Installer PREFERENCES Page

3. Change the **System URL** if setting up multiple (non-grouped) systems at the same site. This descriptive name provides direct access to a server. Enter a descriptive name in the **SYSTEM URL** field. Characters must be lower case with no spaces. Click **SAVE CHANGES**.
4. Set the **Time Zone**. Select from the drop-down menu and click **SAVE CHANGES**.
5. Set the **Music Zone Control**. This option allows control of only the local music zone from onscreen display, or control of all music zones in the system from any player. Select the appropriate radio button and click **SAVE CHANGES**.
6. Set the **HTTP Proxy Server** if necessary. Use this option if the network has to communicate to the Internet through a proxy server. Configure the proxy server by entering the appropriate proxy server information and click **SAVE CHANGES**.
7. Set or change the **Installer Password**. Enter the current password, if any, then enter and confirm the new password. Click **SAVE PASSWORD**.

Note: Setting an installer password is a precautionary procedure to prevent unauthorized modification of the system configuration, and can prevent children from overriding parental control settings.

Note: If an installer password is forgotten, contact Kaleidescape Support.

8. Click **RESET USER PASSWORD** to clear the user password if a customer forgets the password.

Configuring System Components

The **COMPONENTS** tab lists properties for system components. Use the following procedures to view and set video and audio format preferences, and network settings.

System Components

1. Open the installer pages of the browser interface and select the **COMPONENTS** tab.

A list of the components in this system appears including detailed information about each component (serial number, IP address, MAC address, storage capacity, storage available, front panel lighting, and temperature). See [Figure 4-4](#).

The screenshot displays the 'COMPONENTS' tab in the installer interface, showing three system components. Each component's configuration is presented in a structured panel with various settings and status indicators.

System Component 1: Mini System

- Device Type: Mini System
- Device Name: Elizabeth's Mini System
- Serial Number: 0000 0000 0103
- IP Address: 192.168.16.26
- MAC Address: 00:E0:F4:1B:F9:4C
- Capacity: 1490 GB
- Space Available: 346 GB (23%)
- Front Panel Lights: 8 (default)
- Import: Allow imports
- Preferred Movie Format: 16:9 widescreen
- Screen Saver Timeout: 5 minutes (default)
- Zone 1 Name (for music): Living Room
- Zone 2 Name (for music): Patio
- Zone 3 Name (for music): Den
- Temperature (°C): 31

System Component 2: Movie Player 2

- Device Type: Movie Player 2
- Device Name: Movie Player - 3E9D
- Serial Number: 0000 0000 3E9D
- IP Address: 192.168.16.102
- MAC Address: 00:0B:63:00:1E:9B
- Front Panel Lights: 2 (default)
- Import: Allow imports
- When Import Finishes: Do not eject disc
- Preferred Movie Format: 16:9 widescreen
- Screen Saver Timeout: 5 minutes (default)
- Zone 1 Name (for music): Garage
- Temperature (°C): 48

System Component 3: M500 Player

- Device Type: M500 Player
- Device Name: M500 Player
- Serial Number: 0000 0018 E999
- IP Address: 192.168.16.100
- MAC Address: 00:0B:63:00:75:D3
- Front Panel Lights: 8 (default)
- Import: Allow imports
- When Import Finishes: Do not eject disc
- Screen Saver Timeout: 5 minutes (default)
- Zone 1 Name (for music): Music Zone
- Temperature (°C): 65

Figure 4-4 Installer COMPONENTS Page

2. Input meaningful **Device Names** for each player or Mini System, for example **Living Room** or **Guest Room**. Then click **OK**.

The **Device Name** identifies the component throughout the user interface. For example, the **Device Name** appears as the name of the onscreen display control panel for the component movie zone and on the **PARENTAL CONTROL** tab in the user pages of the browser interface.

3. Click on the **Control the onscreen display** link to bring up the control panel for the player. This is the same onscreen display control panel used on the user pages and can be used for testing and troubleshooting system configurations.
4. Set the brightness of the **Front Panel Lights**. Use the drop-down menu to select brightness, then click **OK**.
5. Set **Import** privilege. Use the drop-down menu to allow or not allow imports from the tray on this device, then click **OK**.

Any player (or Mini System) with a disc tray has the option to allow or disallow imports. This option prevents guests or children from accidentally importing content. With import disabled, movies and albums can still be played from the tray.

6. Select whether or not to open a disc tray automatically **When an Import Finishes**. Use the drop-down menu, then click **OK**.

Note: This option is useful if the component in question is behind a door that can prevent the tray from ejecting properly.

Note: Mini Systems do not eject the tray automatically when an import finishes because the disc tray is behind the front panel.

7. The **Preferred Movie Format** selects the format used when the user presses **PLAY**. If widescreen is selected, the fullscreen version can still be played by selecting **PLAY FULLSCREEN VERSION** in the onscreen display.

Note: M-Class players always use the 16:9 version.

8. Use the drop-down menu to select the a format, **4:3** for full screen viewing or **16:9** for widescreen display, then click **OK**.

This option is applied when multiple versions of a DVD with different aspect ratios are stored on a Kaleidescape server. For example, the DVD *A Bug's Life* contains both widescreen and full screen versions on the same disc. The **Preferred Movie Format** indicates which is given preference when the user presses play.

If widescreen is selected as the preference here, the fullscreen version can still be played by selecting **Play Fullscreen Version** in the onscreen display. This option gives preference to one version or the other when just pressing **Play**.

Note: M-Class players always give preference to the **16:9** version.

9. Select the **Screen Saver Timeout** period. This option selects how long the onscreen display stays on before showing the screen saver. Use the drop-down menu to select the timeout duration, then click **OK**.

If selecting a screen saver timeout of more than 5 minutes (default), a warning message appears about display burn-in. See [Figure 4-5](#). Be sure to consult the manufacturer's documentation.

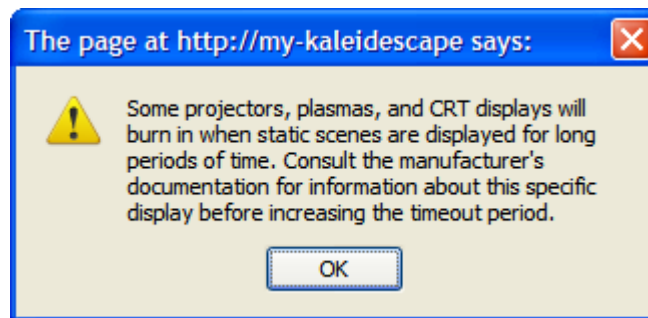


Figure 4-5 Display Burn-in Warning Message

10. Name the **Music Zones**. Enter the names for the music zones in the text boxes and click **OK**. It is often useful to choose practical names such as living room, patio, or bedroom. The music zone name appears on the **HOME** tab of the user pages of the browser interface for the corresponding music zone control panel and throughout all user interfaces.

The onscreen display lists the names of the music zones if the **control zone** feature is enabled, and control panels list the zones by name.

11. Click the **Control Music on Zone #** link to bring up the control panel for that music zone. This is the same music control panel used on the user pages to control music in areas without a display device and is useful for testing and troubleshooting system configurations.
12. Click **OK** after changing the information for a component.

Temperature Bar

A temperature bar shows the current operating temperature of each component. If a component is in, or approaching, the red section of the high temperature range, click the **Help** link. A window appears with instructions for corrective action. See [Figure 4-6](#).

If a component is in, or approaching, the red low temperature range, the room temperature is likely too cold. Refer to the environmental specifications in [Appendix A on page 124](#).

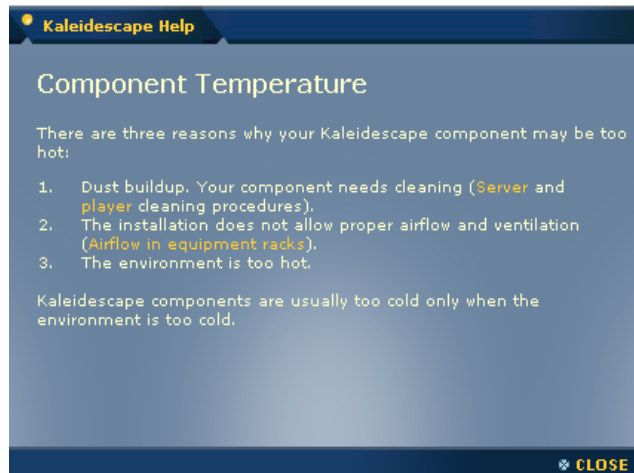


Figure 4-6 Component Temperature Help Window

Restart

The **RESTART** button is used to restart components remotely. It takes about two minutes to restart a server or Mini System. Any imports in progress are aborted.

Restarting the server prompts the server to check for software updates, and Movie Guide and Music Guide updates. A restart also clears alerts; however, if the condition still exists, the alerts reappear.

Components must be restarted for network changes to take effect.

Settings

The **SETTINGS** button is used to access specific configuration tabs.

- Servers have two settings tabs: **NETWORK** and **CONTROL**.
- Movie players and the Mini System have seven settings tabs: **VIDEO**, **AUDIO**, **LANGUAGE**, **NETWORK**, **CONTROL**, **REGION**, and **SCREEN MASKING**.
- Music Players have three tabs: **NETWORK**, **CONTROL**, and **REGION**.

Note: Older players without disc trays do not have **REGION** settings tabs.

There are variations for video, audio, and language settings depending on the component.

- ▶ M-Class players (M500 and M300 Players)
- ▶ Mini System and 1080p players (KSYSTEM-120, KPLAYER-6000, KPLAYER-300)
- ▶ Movie Player 2 and Movie Players (KPLAYER-2000, KPLAYER-2500, KPLAYER-5000)

Each component must be configured individually. Players have several video outputs which are all active simultaneously.

Use the **VIDEO** tab to optimize video for **each player** in the system.

If a player is connected to more than one display device (either using several video outputs from the player or a matrix switcher) video cannot be optimized for each display device. One set of settings must be chosen for the movie player that presents the fewest problems for all connected displays.

Video and Audio Settings

Video Settings for M-Class Players

Figure 4-7 shows video configuration settings for M-Class players. Each player can support 37 downstream HDCP devices.

VIDEO AUDIO LANGUAGE NETWORK CONTROL REGION SCREEN MASKING

Select Primary Video Output

Primary Video Output : **HDMI**

Video performance will be optimized for the **primary** video output selected above. Non-primary outputs will also be active, but will not typically benefit from any internal video processing.

Note: The copy control restrictions in the DVD CCA's CSS License forbid manufacturers from providing upscaled DVD video content over analog outputs. DVDs may be played over component video at 480p and 576p, but not at higher resolutions.

Select Video Mode For Each Media Format

These video modes are used for the **primary** video output only:

| Media Format | Video Mode |
|------------------|----------------------------------|
| Onscreen display | Use Highest Available Resolution |
| NTSC DVD | Use Highest Available Resolution |
| PAL DVD | Use Highest Available Resolution |
| Blu-ray Disc | Use Highest Available Resolution |

Video Modes for Remaining Video Outputs:

Component The onscreen display and all video will be output in 480i/576i.

S-Video/Composite The onscreen display and all video will be output in 480i/576i.

Select How Full Screen 4:3 Movies Will Appear On A 16:9 Display

Play as 16:9 video without horizontal stretching (default)
This will not distort the image but will leave parts of the screen blank.

Play as 16:9 video with horizontal stretching
This will distort the image but the entire screen will be filled.

Show Advanced Video Settings

Figure 4-7 Video Settings for the M500 and M300 Players

1. Select the **Primary Video Output** format from the drop-down menu. The primary output is typically the output that connects to the primary display device (the display most watched). Default setting is **HDMI**.
2. The player synchronizes audio and video for the primary video output, although all video outputs remain active. The video outputs cannot be controlled independently.
 - When HDMI is the primary video output, component video output is 480i/576i.
 - 1080p is available only over HDMI.
 - When component is the primary video output, HDMI has the same video mode as component.
 - 1080p24 output from DVD content is not supported. Only Blu-ray content is explicitly authored for playback at 24 frames per second.



Selecting the wrong primary video output or the wrong video modes can result in bad color, flickering, mismatched aspect ratio, or no picture at all

Consult display documentation if necessary.

3. Select **Video Mode** from the drop-down menus. Video mode choices for other video outputs are automatically set depending on the primary video output selected and its video modes. Copy control restrictions forbid outputting DVD content at resolutions higher than 480p or 576p over component video outputs.

Do not choose any video mode that the display does NOT support. For example, if the display does not support PAL video modes, select **DO NOT PLAY** for PAL media formats. If a user tries to play a PAL formatted movie, a message appears stating that the display does not support PAL format.

The video modes for other video outputs are displayed below the drop-down menus.

4. Configure **how full screen 4:3 movies will appear on a 16:9 display**. Select the radio button to determine how a movie appears on the screen.
 - **PLAY WITHOUT STRETCHING** (default) causes black bars to appear on the sides of a 4:3 image.
 - **PLAY WITH HORIZONTAL STRETCHING** causes the image to fill the display screen but will distort 4:3 images.

5. Click **OK** to save settings.
6. Select **Show Advanced Video Settings** for options related to performance and calibration. See [Figure 4-8](#).



Figure 4-8 Advanced Video Settings for M500 and M300 Players

- a. Select the appropriate radio button for **Adjust onscreen display picture size** to control how messages are placed at the edges of the display.
 - ▶ **LARGE** is the default when HDMI is selected as the primary output.
 - ▶ **SMALL** is the default when HDMI is NOT the primary output. Use this setting if messages near the edge of the screen are cut off on the display with the large setting, for example, **Pause**, or **Play**.

Note: This adjustment can also be performed through the onscreen display **System Status** option.

- b. Enable video brightness blacker-than-black and whiter-than-white to calibrate the display. Disable after calibration for viewing.

M-Class players can output the full luma range, but it causes video mode changes between the onscreen user interface and movies, and causes some disc menus and subtitles to appear incorrectly.
- c. Configure **Detail enhancement for HDMI Video** to influence how sharp the edges of scaled video appear. (Option is only available if HDMI is the primary video output.)
- d. Enable **Deep Color for HDMI Video** only if all devices on the HDMI video path support deep color. (Option is only available if HDMI is the primary video output.)
- e. Click **OK** to save settings.

Audio Settings for M-Class Players

M-Class players support Linear PCM (up to 7.1), Dolby Digital, Dolby TrueHD, DTS Digital Surround®, DTS-HD Master Audio™ and MPEG audio. However some codecs can only be output as bitstreams.

M-Class players can be used to watch DVD and Blu-ray movies with nearly any audio receiver or processor. To hear lossless audio tracks (for example, Dolby TrueHD or DTS-HD Master Audio) from Blu-ray Discs without alteration, the A/V receiver or audio processor must be able to decode these formats. When lossless audio is being played using **BITSTREAM PASS-THROUGH**, the coaxial, optical and analog audio outputs are silent.

Figure 4-9 shows audio settings for M-Class players.

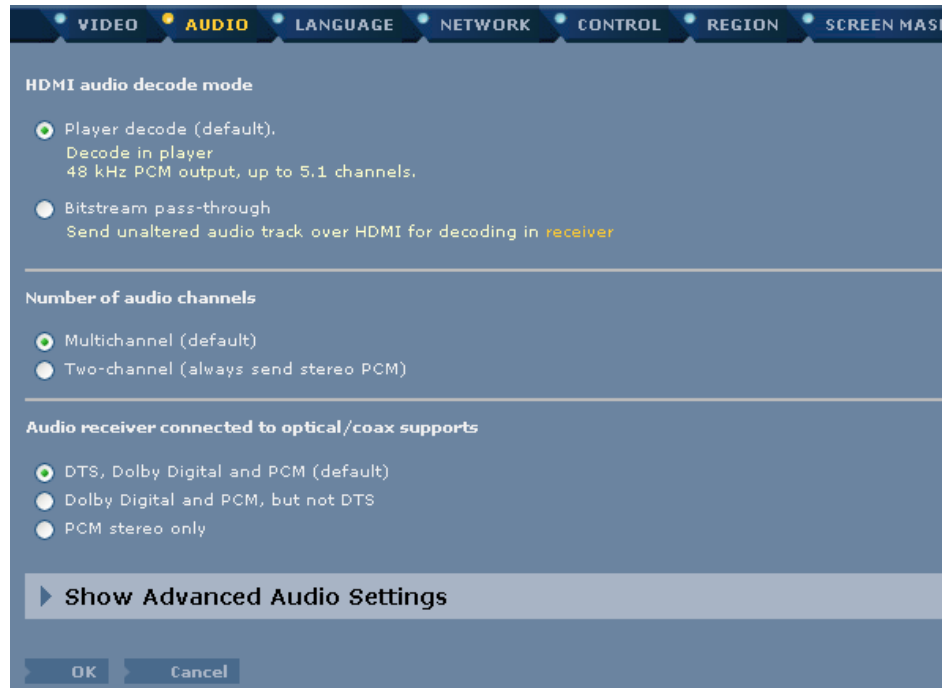


Figure 4-9 Audio Settings for M500 and M300 Players

Table 1 shows the output with default settings. These settings provide maximum compatibility.

Table 1 Outputs with the Player Decode (Default) Audio Setting

| Audio Output Format | HDMI | Coax/Optical | Analog |
|---------------------|------------------------|--------------------------------------|--------|
| CD | PCM stereo | PCM stereo | Stereo |
| DVD | PCM up to 5.1 channels | Source bitstream | Stereo |
| Blu-ray Disc | PCM up to 5.1 channels | DTS up to 5.1 channels or PCM Stereo | Stereo |

1. Configure the **HDMI audio decode mode**.

- **Player Decode Mode**
- **Bitstream Pass-Through Mode**

The audio decode mode affects all other audio settings. The decode mode determines if the player or the receiver decodes the audio.

Audio can be sent as multichannel PCM over HDMI by default, with all outputs enabled, or it can be passed through to HDMI with other outputs disabled.

Player Decode Mode

Select **PLAYER DECODE** (default) to hear Blu-ray secondary audio or when coaxial, optical, or analog audio outputs are used. **PLAYER DECODE** sends 48 kHz PCM output over HDMI, up to 5.1 channels depending on content and cabling.

In **PLAYER DECODE** mode, optical/coaxial outputs carry DTS Digital Surround when the soundtrack has more than two channels. Audio can be output over optical/coaxial from any Blu-ray movie in this manner.

- **Secondary audio with picture-in-picture**

Blu-ray Discs support a secondary audio track typically used for interactive audio and commentary. This track is mixed with the main audio so both tracks can be heard at the same time. M-Class players play secondary audio with picture-in-picture when in the **PLAYER DECODE** mode.

(To hear unaltered primary audio, the players must be set to the **BITSTREAM PASS-THROUGH** setting.)

- **Downmixing**

In **PLAYER DECODE** mode, M-Class players downmix DTS Digital Surround and Dolby Digital soundtracks to stereo audio output when playing Blu-ray Discs or DVDs.

Bitstream Pass-Through Mode

Select **BITSTREAM PASS-THROUGH** to send 7.1-channel Blu-ray soundtracks over HDMI at the highest bandwidth possible (up to 192 kHz or 7.1 channels) at the expense of other features.

The lossless audio formats available on Blu-ray Discs, such as Dolby TrueHD, DTS-HD Master Audio and 7.1-channel PCM, exceed the capabilities of analog and optical/coaxial audio outputs. These formats are only available over HDMI, and only when using the **BITSTREAM PASS-THROUGH** mode. This setting turns off the analog and optical/coaxial outputs, and picture-in-picture audio cannot be heard.

[Table 2](#) shows behavior with the **BITSTREAM PASS-THROUGH** setting.

Table 2 Outputs with the Bitstream Pass-through Audio Setting

| Audio Output Format | HDMI | Coax/Optical | Analog |
|---------------------|------------------|--------------|--------|
| CD | PCM stereo | PCM stereo | Stereo |
| DVD | Source bitstream | off | off |
| Blu-ray Disc | Source bitstream | off | off |

In **BITSTREAM PASS-THROUGH** mode, optical/coaxial audio outputs are silent.

2. Configure the **Number of audio channels**. Select the audio capabilities of the receiver. (Option is available only if **PLAYER DECODE** is selected.)

If the audio level for movies is lower for M-Class players than the audio level for music and there are only two speakers, set the number of audio channels to two.

3. If using a coaxial or optical connection, select the audio formats that the receiver supports. If the receiver connected to coaxial or optical does not support DTS Digital Surround or Dolby Digital, these soundtracks can be decoded by the player and stereo PCM output instead.

The **Audio receiver connected to optical/coax supports** option is used when a receiver, processor or display using the coaxial or optical S/PDIF connection has limited audio format decoding capabilities. Most modern receivers and processors offer comprehensive audio format decoding, and so the default option can be used. But for more limited devices, audio can be sent as PCM stereo only, or as any format except DTS Digital Surround.

4. Select **Show advanced audio settings** to override automatic information provided via the HDMI EDID or adjust other settings. See [Figure 4-10](#).

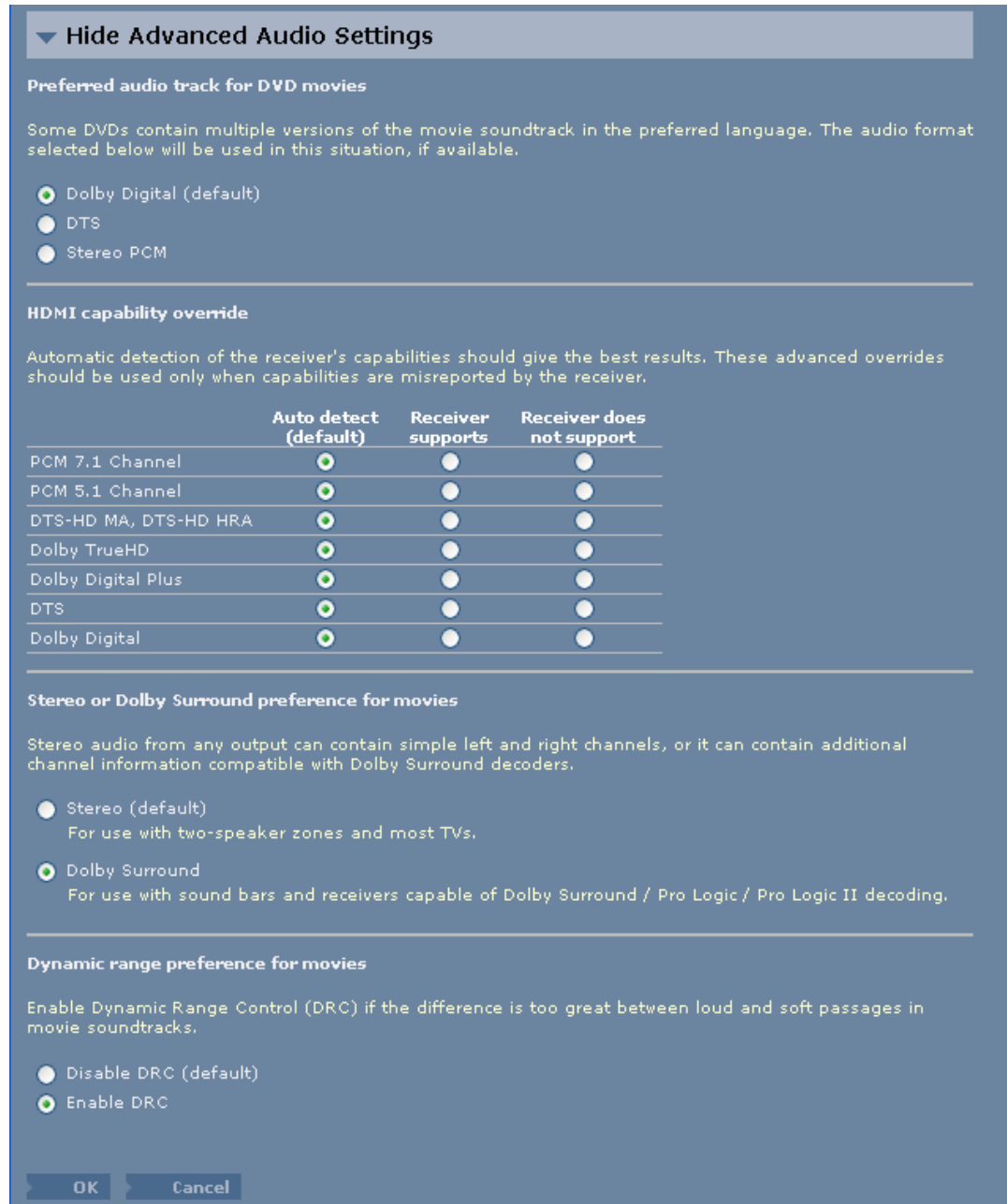


Figure 4-10 Advanced Audio Settings for M500 and M300 Players

a. Audio track for DVD movies

Some DVDs have more than one version of the movie soundtrack in the preferred language. Select which audio format to use when these movies are played.

b. HDMI capability override

Audio receivers connected via HDMI automatically provide information via EDID used to determine the audio formats sent by

the player to the receiver. In rare cases, these capabilities must be overridden because of an EDID that is inaccurate or has been corrupted by an HDMI extender or switcher.

c. Stereo mode for movies

Select whether PCM stereo audio from any output contains simple left and right channels, or contains additional channel information compatible with Dolby Surround decoders.

If the output is connected to a sound bar or receiver capable of Dolby Surround / Pro Logic / Pro Logic II decoding, select **DOLBY SURROUND**.

d. Select the audio dynamic range for movies. If the range between soft and loud sounds is too great, select **ENABLE DRC**.

e. Click **OK** to save settings.

Configuring M-Class Player Audio Behavior to Match 1080p Player Audio Behavior

A 1080p Player sends stereo audio over analog, sends DVD source bitstream audio over optical/coaxial, and sends either of these two formats over HDMI, depending on the configuration setting.

The default behavior of an M-Class player is similar to the 1080p Player audio for optical/coaxial and analog outputs; however, the DVD source bitstream is converted to up to 5.1-channel PCM over HDMI. If an attached HDMI device does not support 5.1-channel PCM, stereo audio is used. There is no new configuration setting to match exact 1080p Player audio behavior.

Some audio configuration settings can be modified to resemble the volume levels and configuration settings of the 1080p Player more closely.

- **Number of audio channels** can be set to **Two-channel (always send stereo PCM)**.
- **Dynamic range preference for movies** can be set to **Enable DRC**.

Troubleshooting Audio Problems with M-Class Players

| Problem | Action |
|--|---|
| No audio over analog, optical, coaxial, or HDMI connection | <ol style="list-style-type: none"> 1. Play a CD, which always produces the stereo audio output. If there is no output, check for a problem with cabling, audio receiver or processor, or television. 2. If the CD plays, but movie audio does not, verify that the PLAYER DECODE setting is selected in the audio settings. With this setting all audio outputs are active. DVD and Blu-ray Disc audio share the same setting. |
| No audio over HDMI | <p>The BITSTREAM PASS-THROUGH setting</p> <p>(a) sends lossless audio formats, which may not be accepted by the attached equipment, and</p> <p>(b) does not play picture-in-picture audio.</p> <p>When PLAYER DECODE is selected, there is 5.1-channel PCM audio over HDMI for both DVD and Blu-ray movies. If the attached device does not support 5.1-channel PCM, at least stereo PCM can be heard.</p> |

Video Settings for the Mini System and 1080p Player

Figure 4-11 shows video configuration settings for the Mini System and 1080p Player.



Figure 4-11 Video Settings for the Mini System or 1080p Player (top)

1. Select the **Primary Video Output** format from the drop-down menu. The primary video output is typically the output that connects the player to the primary display device (the display most watched). Default setting is **HDMI**.

The player synchronizes audio and video for the primary video output, although all video outputs remain active. The video outputs cannot be controlled independently.

2. Select **Video Mode** from the drop-down menus. Video mode choices for other video outputs are automatically set depending on the primary video output selected and its video modes. Copy control restrictions forbid outputting DVD content at resolutions higher than 480p or 576p over component video outputs.



CAUTION

Selecting the wrong primary video output or the wrong video modes can result in bad color, flickering, mismatched aspect ratio, or no picture at all

Consult display documentation if necessary.

Do not choose any video mode that the display does NOT support. For example, if the display does not support PAL video modes, select **DO NOT PLAY** for PAL media formats. If a user tries to play a PAL formatted movie, a message appears stating that the display does not support PAL format.

The video modes for other video outputs are displayed below the drop-down menus.

3. **Select How full-screen 4:3 movies will appear on a 16:9 display.**
Select the radio button to determine how movie appears on the screen.
 - **DON'T STRETCH MOVIE - ADD VERTICAL BLACK BARS ON EITHER SIDE** causes black bars to appear on the sides of a 4:3 image.
 - **STRETCH MOVIE HORIZONTALLY TO FILL THE 16:9 SCREEN** causes the image to fill the display screen but distorts 4:3 images.
4. **Select How Letterboxed 4:3 Movies appear on 16:9 displays.**

Some 4:3 DVDs are letterboxed, containing black bars above and below the image to maintain the theatrical aspect ratio. When viewed on a widescreen display, black bars are sometimes added to the left and right of 4:3 DVDs, which can lead to black bars on all four sides of the image. The small image in the center of a black field is sometimes referred to as a “postage stamp” image.

Click the radio button next to **ZOOM** to fit the display or **ADD SIDEBARS**. The **ZOOM** option fills the screen, but can lead to distortion. See [Figure 4-12](#).

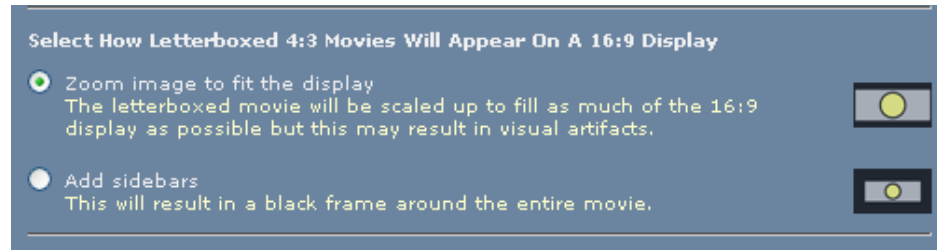


Figure 4-12 Letterbox Effect

Note: The movie player can only zoom letterboxed 4:3 movies recognized by the Kaleidescape Movie Guide.

- Select Black Level for component video.** Click the radio button next to **0 IRE BLACK LEVEL SETUP** (recommended) or **7.5 IRE BLACK LEVEL SETUP**. See [Figure 4-13](#).

Note: This setting only affects video displays that use component video as the primary video output.



Figure 4-13 Video Settings for the Mini System or 1080p Player (bottom)

7.5 IRE black level refers to the EIA-770.1 video standard, which uses 7.5 IRE for black. This is sometimes referred to as standard black level.

0 IRE black level refers to the EIA-770.2 video standard, which uses 0 IRE for black and is referred to as darker or enhanced black level.

The **0 IRE** selection works well with most displays and processors. If this setting produces loss of detail in dark areas of the image, try 7.5 IRE instead.

Note: If the display has been calibrated and the black level is changed, the display must be recalibrated for correct black and white levels.

6. Select **Detail enhancement for HDMI video**. Click the radio button next to **NONE**, **LOW** (default setting), **MEDIUM** or **FULL**.

Either the movie player or video processor/scaler can add detail enhancement (influencing how sharp the edges of scaled video appear) to upscaled HDMI video output. If the video processor/scaler performs detail enhancement, select **NONE**. Otherwise, select a level that matches the type of the display.

7. Click **OK** to save settings.

Audio Settings for the Mini System and 1080p Player

Figure 4-14 shows the audio configuration settings for the Mini System.



Figure 4-14 Audio Settings for the Mini System

1. Select type of preferred **Audio for DVD Movies**. Click the radio button next to **DOLBY DIGITAL** (default), **DTS** or **PCM**.

Non-M-Class player optical and coaxial digital outputs are always active, regardless of any other settings. HDMI audio is only active if the HDCP handshake is successful. Analog stereo outputs are active for any audio except DTS Digital Surround.

Audio from movies with any audio format is output over HDMI, optical and coaxial cables, and the audio system must do the decoding.

Note: The movie player always outputs PCM audio when playing a CD.

2. Select the HDMI audio output preference. Select **AUTO DETECT** (default), **MULTICHANNEL**, or **STEREO**. This option is used to override the information automatically provided by the receiver via the HDMI EDID.
3. Click **OK** to save settings.

Video Settings for the Movie Player and Movie Player 2 (KPLAYER-2000, KPLAYER-2500, KPLAYER-5000)

Figure 4-15 shows video configuration settings for older Kaleidescape players.

Note: Each category of options has an amber text help link.

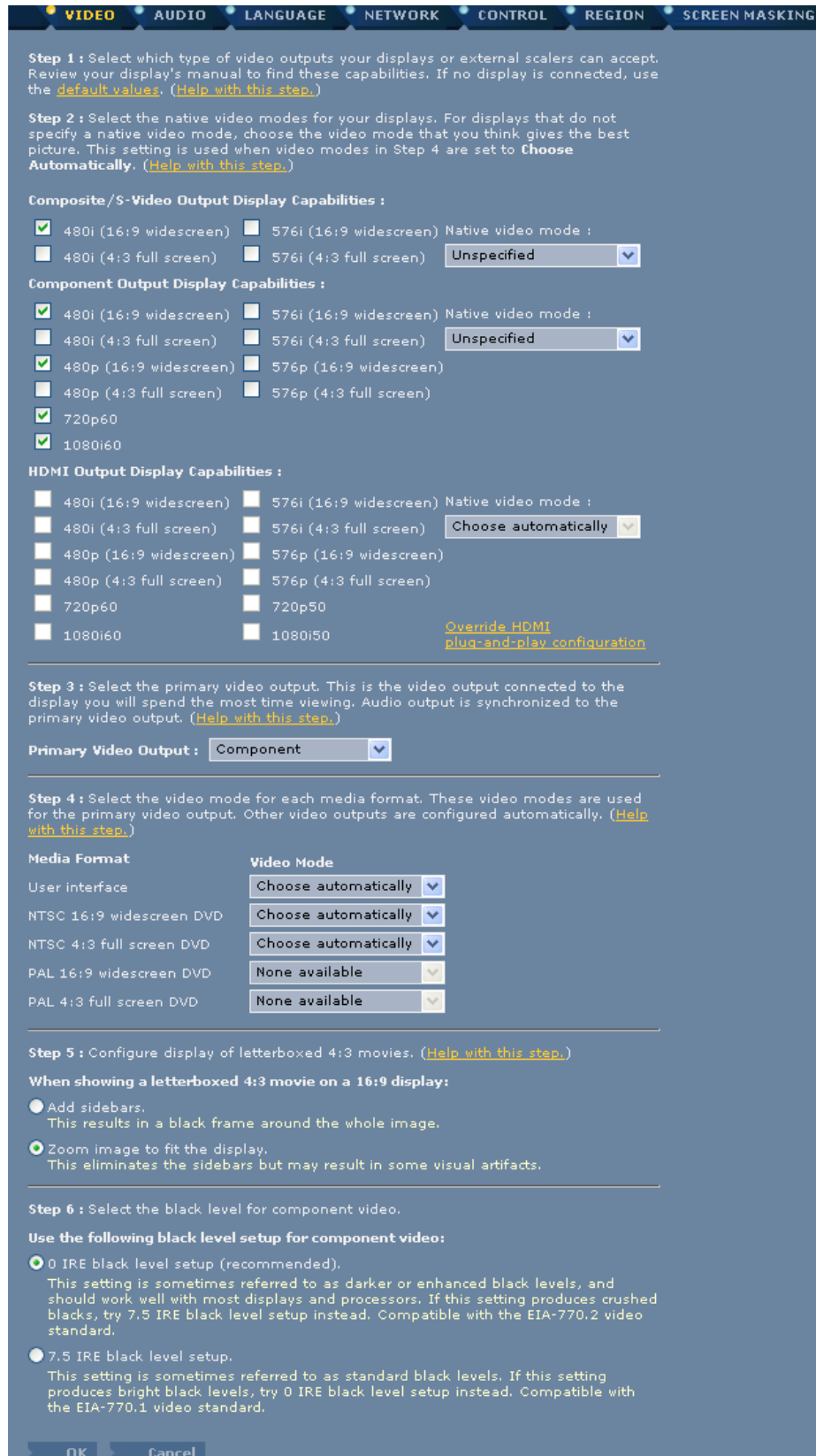


Figure 4-15 Video Settings for Older Kaleidescape Players

1. Select all the types of outputs that the display supports by checking the checkboxes.
2. Select native video modes for the displays from the drop-down menus. The native mode refers to the number of pixels in the display resolution.
3. Select **Primary video output** from the drop-down menu.
4. Select the video mode for each format from the drop-down menus. The video mode can be selected automatically or can be specified. When automatic is selected, the system selects based on the capabilities selected above. Specifying a mode is usually recommended.
5. Configure the letterbox display. Click the applicable radio button.
6. Select black level for component video. Click the applicable radio button.
7. Click **OK** to save settings.

Audio Settings for the Movie Player and Movie Player 2 (KPLAYER-2000, KPLAYER-2500, KPLAYER-5000)

See [Audio Settings for the Mini System and 1080p Player on page 84](#).

Language Settings

A preferred language for movie playback can be configured for each player.

1. Select the **LANGUAGE** tab, then select the **Preferred Language** from the drop-down menu. See [Figure 4-16](#).

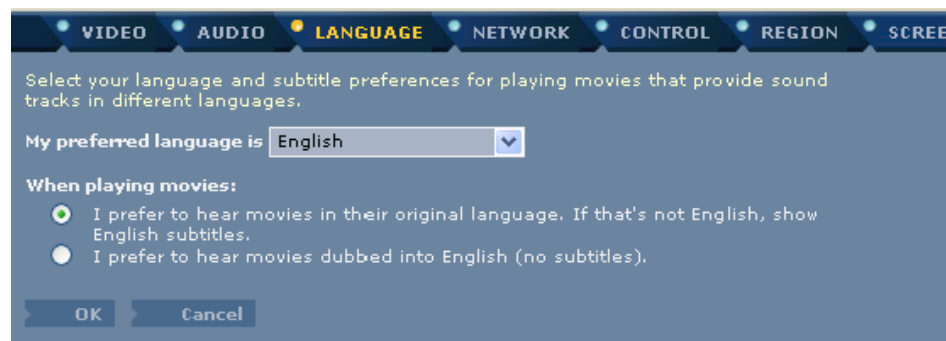


Figure 4-16 LANGUAGE Tab Settings

If **NONE** is selected, movies play in the original language.

If a language is selected, movies from a country that speaks the preferred language are played with the original soundtrack without subtitles.

2. For movies from countries that do not speak the preferred language, select whether or not to see **subtitles** or **hear a soundtrack dubbed in**

the preferred language. (The disc must contain subtitles or an overdub soundtrack in the selected language for these options to be active.)

3. Click **OK** to save settings.

Network Settings

Kaleidescape components, by default, obtain IP addresses from a DHCP server. Use the following procedure if a static IP address must be set (used with control systems) or to change other network parameters.

1. Select the **NETWORK** tab. Information about the current network configuration for the component is displayed. See [Figure 4-17](#).

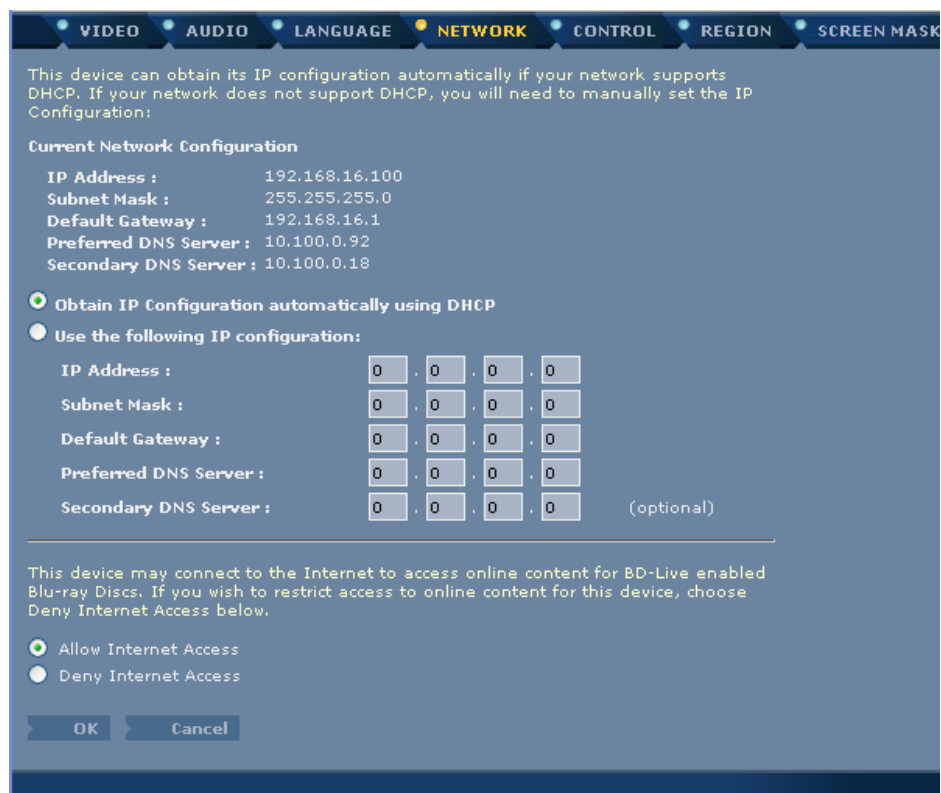


Figure 4-17 NETWORK Tab Settings

2. Most control systems that communicate via TCP/IP require a fixed address for each component connected to the control system. The safest and easiest way to do this is to create a DHCP reservation in the router and use the default **Obtain IP configuration automatically** setting.

DHCP reservations help prevent duplicate addresses from being assigned, provide simple centralized management, and provide automatic updates when network settings change.

With DHCP reservations, network parameters such as IP address, subnet mask, router IP, and DNS servers are configured in one place (at the DHCP server). If any of these parameters change, only the DHCP server has to be modified. For most installations, the DHCP server built into the router is perfectly adequate.

DHCP reservations are usually made using MAC addresses. The procedure to create DHCP reservations is device-specific. Refer to the documentation for the router or DHCP server.

If DHCP reservations are not an option, select **Use the following IP configuration** and manually enter the IP Address, Subnet Mask, Default Gateway, and DNS Servers. This information is required for interactive BD-Live features of Blu-ray Discs to operate correctly

3. For M-Class players, select the radio button to allow or deny Internet access through BD-Live. If not interested in chat, downloaded trailers, or other Internet features, or have privacy concerns, select **DENY INTERNET ACCESS**.
4. Click **OK**.

Control Settings

Use the following procedure to configure control settings.

1. Select the **CONTROL** tab. [Figure 4-18](#) shows the control settings for a server. [Figure 4-19](#) shows the control settings for a player.

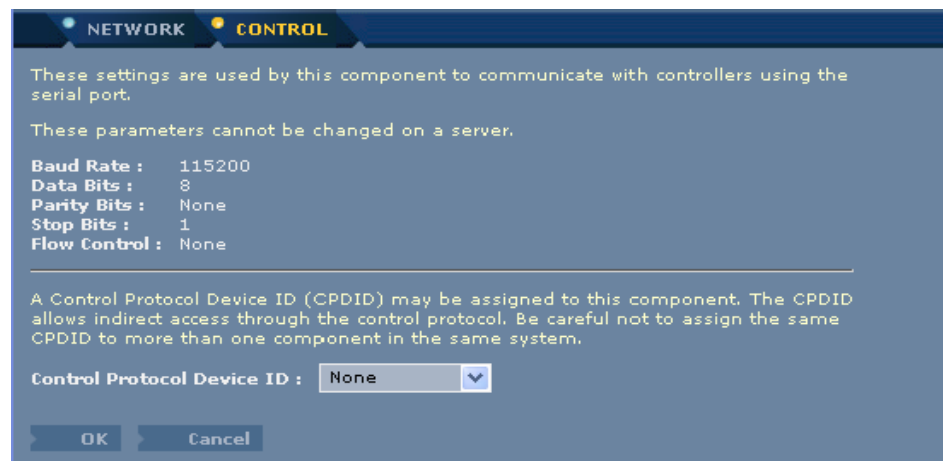


Figure 4-18 CONTROL Tab Settings for Servers



Figure 4-19 CONTROL Tab Settings for Players

2. Select the appropriate serial port settings for the player from the drop-down menus. [Table 3](#) shows server settings and default serial port settings for players. Server control settings cannot be changed but control software settings must match the server control settings.

Table 3 Server Settings and Default Player Control Settings

| | Server | Player |
|---------------------|---------|--------|
| Baud Rate | 115 200 | 19 200 |
| Data Bits | 8 | 8 |
| Parity Bits | none | none |
| Stop Bits | 1 | 1 |
| Flow Control | none | none |

3. Select the **Control Protocol Device ID** from the drop-down menu. The Control Protocol Device ID (CPDID) allows indirect access to the

Kaleidescape component through another component. This is called **command routing**. Assigning a unique device identifier allows a controller to communicate with multiple Kaleidescape devices with one connection.

The only module provided by Kaleidescape that requires CPDIDs to be set is the AMX module. Other modules communicate directly with the player.

Note: It is NOT usually necessary to connect a server to a control system. The server is generally used as a gateway to perform command routing to other devices with CPDIDs.

When connecting a serial controller directly to a player or Mini System via an RS-232 control port, communication parameters must be set to match the serial controller.

The M300 Player has no serial port but can be controlled directly via TCP/IP or IR, or a CPDID can be set for routing control protocol commands from another Kaleidescape component with a serial port.

For detailed information about control protocol configuration, refer to the Kaleidescape System Control Protocol Reference Manual at www.kaleidescape.com/go/control-protocol.

- Set the **Control Protocol Device ID** to **NONE** if control is linked directly to the player.
 - If command routing is used, select a number from the drop-down menu.
4. Select the infrared (IR) code set by selecting one or more of the checkboxes. Both the Kenwood and Toshiba options are selected by default to provide maximum flexibility when programming an IR remote. Click **OK**.

To turn off a code set, uncheck the box and click **OK**.

5. Select IR remote behavior for the paging button by clicking one of the two radio buttons.

Note: If the paging button behavior seems reversed, select the other option.

Region Settings

Blu-ray Discs

Select the **REGION** tab to view the Blu-ray Disc region code of an M-Class player. See [Figure 4-20](#).



Figure 4-20 REGION Tab Settings

M-Class players are shipped with Blu-ray Disc region A or region B. The Blu-ray Disc region code of an M-Class player cannot be changed by the end user or installer. Only Blu-ray Discs compatible with the region code can be played. Many Blu-ray Discs are region-free and can be played on any M-Class player.

Kaleidescape does not recommend mixing players and discs with different Blu-ray regions in the same system because not all players would be able to play all Blu-ray movies.

DVDs

Most DVDs are authored for a specific region. Players must be set to the region required to import and play DVDs from the tray. Any player can play a movie from the server once it has been imported, regardless of the DVD region code. The DVD region is identified in the **Region** drop-down menu. See [Figure 4-20](#).

Players in the same system can be set to different DVD region codes.

Use the following procedure to change the region setting to import a DVD from another region.

1. Insert a DVD from the region in the disc tray on Mini System or player.

Note: When inserting a DVD from a different region, disable automatic tray ejection temporarily to keep the DVD in the player during the region change. Open the **COMPONENTS** tab of the browser interface and select **DO NOT EJECT DISC** from the **When Import Finishes** drop-down menu. Click **OK** to save changes.

2. Select the **REGION** tab.
3. Select the new required DVD region from the **Region** drop-down menu. Default is **1 - UNITED STATES, CANADA**.
4. Click **OK**.

Note: The region setting can only be changed four times. Therefore import all content from the same region at one time. The region setting does not have to be changed for playback from the server.

Note: Direct playback DVDs (not imported into the system) only play if DVDs match the current region setting of the player.

Screen Masking

Movie players send control messages with aspect ratio and screen masking information to the control system every time a movie plays.

Control systems use this information to position screen masks, engage special projection lenses, and adjust the aspect ratio mode of the display device. The player can be configured to ensure that masks do not cover any part of the onscreen display or subtitles (for DVDs).

Note: If screen masking does not adjust for a movie, the movie might not be recognized by the Kaleidescape Movie Guide. Use the Kaleidescape loan process to send the disc for processing. For more information go to www.kaleidescape.com/loan.

The Kaleidescape Movie Guide includes aspect ratio information for most movies. This information can be used by a control system to automate screen masking and anamorphic lens movement, to optimize the presentation of each movie. A small percentage of movies, including the Blu-ray release of *The Dark Knight*, has more than one aspect ratio within the feature. For these movies, the Movie Guide indicates a single aspect ratio so that none of the active image is cropped or projected into the masks. This method results in unmasked black bars during some of the movie, but avoids distracting lens or mask movement during the movie.

- M-Class players feature only a 16:9 user interface.
- Most home theaters with masking have constant image height masking.

Use the following procedure to set screen masking options and subtitle repositioning

1. Select the **SCREEN MASKING** tab. See [Figure 4-21](#).

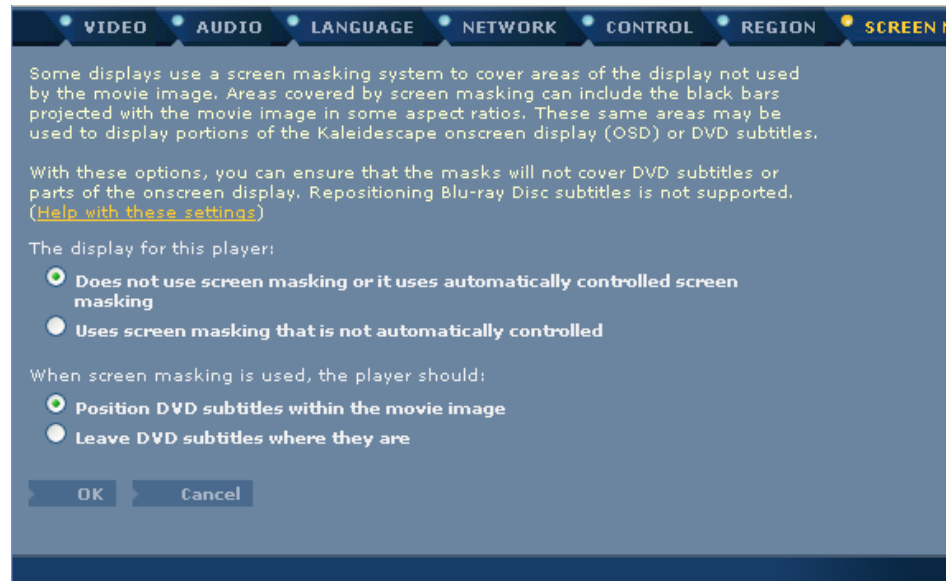


Figure 4-21 SCREEN MASKING Tab Settings

2. Select the **type of screen masking** on the display. Click on the appropriate radio button.
 - a. Select **DOES NOT USE SCREEN MASKING OR IT USES AUTOMATICALLY CONTROLLED SCREEN MASKING** if the display uses an automatically controlled screen masking system.

This option causes the player to reposition onscreen display elements only when the player receives control messages indicating that screen masking is being used.
 - b. Select **USES SCREEN MASKING THAT IS NOT AUTOMATICALLY CONTROLLED** if screen masking is not automatically controlled.

With this option, the player operates as if screen masking is present even without receiving a control message indicating masking is in use.

 - ▶ Select this option if the control system does not send messages to the player, even though the control system might be using messages from the player to control the screen masking.
 - ▶ This option is also appropriate for screen masking systems that are controlled manually or fixed to a certain aspect ratio. When the player is set to use screen masking not automatically controlled, the player always shows display elements within the movie image so that elements are not covered by screen masking.

Note: For more information on programming a control system for automatic screen masking, refer to the control system documentation on www.kaleidescape.com/support/control-systems.

3. Select **how to display subtitles** when screen masking is used. Click on the appropriate radio button.

DVDs often place subtitles below the movie image to avoid interfering with the movie image. Screen masking systems sometimes cover subtitles positioned below the movie image.

(Unless configured for use with a screen masking system, the player does not change the position of subtitles. Subtitles appear in the original position.)

- a. Select **POSITION DVD SUBTITLES WITHIN THE MOVIE IMAGE** to cause the player to position subtitles within the movie image. With this option, subtitles can always be read even when part of the screen is covered by masking or cropped by a lens.
- b. Select **LEAVE DVD SUBTITLES WHERE THEY ARE** if the screen masking system is designed to leave room for subtitles at the bottom of the screen. Subtitles appear in the original position, which can place them below the movie image. Display elements continue to be placed within the movie image.

Note: Subtitles can be repositioned only for DVD movies (not Blu-ray Discs).

Note: Click the **Help file** link for screen masking to see pictorial examples.

4. Click **OK**.

Viewing and Changing Groups

When multiple Kaleidescape servers are on the same local subnet, servers first appear as individual systems. Each new server defines a group on a subnet.

Servers on the same local subnet can be placed in groups to combine storage to form one movie and music library for players in the same group.

Note: If there is only one group of servers, players automatically connect to that group even if not explicitly placed in a group.

With multiple groups of servers, each component must be associated with a group after being added to the network and powered on. The front panel of a player glows amber until placed in a group with a server.

Use the following procedure to configure groups.

1. Select the **GROUPS** tab. The Groups page displays all groups on the subnet. See [Figure 4-22](#).



Figure 4-22 Installer GROUPS Page

2. To add a component to a group, find the component, then select the group from the **ADD TO GROUP** drop-down menu.

The page reloads and the component now has an amber **REMOVE FROM GROUP** link to remove the component from the group.

3. To remove a component from a group, click the **REMOVE FROM GROUP** link. The page reloads and the component now has a drop-down menu.

When setting up multiple systems, be careful to select and add components to the correct groups.

Assigning Bulk Loaders and Speed Readers to Groups

If importing content with a Bulk Loader or Speed Reader, assign these components to the correct group. If these components are not in a group, the components cannot import content into a server.

Viewing Diagnostic Information

A Kaleidescape server periodically communicates with several Kaleidescape services. The Diagnostics page provides information to help verify that the server is correctly configured.

Use the following procedure to view services information.

1. Select the **DIAGNOSTICS** tab. See [Figure 4-23](#).

Kaleidescape Services DNS Name Resolution

| Service | IP Address | Last Success | Last Attempt | Status |
|----------------------|---------------|----------------------|----------------------|--------|
| Log Upload | 10.121.0.161 | April 29 at 10:22 am | April 29 at 10:22 am | OK |
| Movie Guide | 10.100.0.23 | April 29 at 10:22 am | April 29 at 10:22 am | OK |
| Music Guide | 10.100.0.5 | April 29 at 10:22 am | April 29 at 10:22 am | OK |
| Software Download | 10.100.0.177 | April 29 at 10:22 am | April 29 at 10:22 am | OK |
| Time Synchronization | 10.100.0.6 | April 29 at 10:22 am | April 29 at 10:22 am | OK |
| Version Query | 74.201.122.65 | April 29 at 10:22 am | April 29 at 10:22 am | OK |

Kaleidescape Services Summary

| Service | Last Success | Last Attempt |
|----------------------|---|---|
| Log Upload | April 29 at 10:22 am | April 29 at 10:22 am |
| Movie Guide | April 29 at 10:07 am | April 29 at 10:07 am |
| Music Guide | April 29 at 9:49 am | April 29 at 9:49 am |
| Software Download | Not since restart on April 28 at 10:53 am | Not since restart on April 28 at 10:53 am |
| Time Synchronization | April 29 at 9:53 am | April 29 at 9:53 am |
| Version Query | April 29 at 9:57 am | April 29 at 9:57 am |

Duplicate IP Address Detection Summary

No duplicate IP addresses detected.

Figure 4-23 Installer DIAGNOSTICS Page

2. Check **Kaleidescape Services DNS Name Resolution** to verify that the server can resolve the IP address for each Kaleidescape service listed. If not, change the network settings for the DNS server address.

Note: If a time appears in the **Last Success** column, this is the time the server successfully identified the IP address of the service.

3. Check the **Kaleidescape Services Summary** for information about when the server last attempted and succeeded to use each service.

| | |
|-----------------------------|---|
| Log Upload | Sends information from the server to Kaleidescape for alerts, system dashboards, and improving Movie Guide information. |
| Movie Guide | Provides updated movie information, such as synopses, bookmarks, and cover art. |
| Music Guide | Provides updated music information such as album title, artist, genre, year of release, and cover art. |
| Software Download | Provides software updates. |
| Time Synchronization | Provides the current time. |
| Version Query | Indicates when a software update is needed. |

4. Check the **Duplicate IP Address Detection Summary** to discover if any duplicate IP addresses are associated with Kaleidescape components. This condition must be corrected to prevent serious networking problems.
5. To resolve duplicate IP addresses, see [Troubleshooting Problems with the Network on page 110](#).