Section 1
Overview

The Kaleidescape Premiere Line Installation Guide describes how to prepare the site network, set up and configure system components, and add new components to an existing installation. This document also describes basic operation and user configuration.

Current components in the Premiere line can be added to any existing Premiere system. Software updates are issued automatically via the Internet.

Additional Kaleidescape products that are not compatible with a Premiere system include Alto and Cinema One (2nd generation). For help installing one of these systems, refer to the Kaleidescape Alto Installation Guide, or the Kaleidescape Cinema One Installation Guide.

The Kaleidescape Premiere System

The Kaleidescape Premiere system is comprised of one or more **servers** connected via Ethernet to one or more **players**.

Servers in the Premiere line store movies and music and deliver this content to players in the Premiere line connected to audio and video equipment. The Premiere system supports easy integration into audio, video and whole-house control systems, such as Crestron, AMX, Control4, Elan, and Savant.

A Premiere system can be as simple as a single server and player controlled with a handheld remote or can scale to multiple servers and players with integrated controls for lighting and screen masking.

System Components

Components in the Premiere line are designed to be easy to install and set up. Simply connect network and audio/video cables, and configure the system from the browser interface. Table 1-1 lists current components in the Premiere line.

Table 1-1   Currently Available Components in the Premiere Line

Kaleidescape Component	Model Number	Description
1U+ Movie Server	KSERVER-1550	One rack-unit server with up to four 10 TB disk cartridges. Capacity for up to 800 Blu-ray quality movies.
3U Server	KSERVER-5000	Three rack-unit server with up to fourteen 6 TB disk cartridges. Capacity for up to 1,950 Blu-ray quality movies. Includes a hot spare disk cartridge as additional measure of protection.
M500 Player	KPLAYER-M500	Movie player that plays Blu-ray quality movies, DVD quality movies, and CDs streamed from the server. Plays Blu-ray discs, DVDs and CDs direct from the tray. Catalogs Blu-ray discs and DVDs. Imports Blu-ray discs and CDs.
M300 Player	KPLAYER-M300	Smaller version of the M500 Player without a disc tray, S-video, optical audio or RS-232. Plays Blu-ray quality movies, DVD quality movies, and CDs, all streamed from the server.
DV700 Disc Vault	KVAULT-DV700	Disc carousel that automatically adds up to 320 movies or albums to the system at one time. Imports Blu-ray discs and CDs. Catalogs DVDs and plays them direct from the internal optical drive. Stores up to 320 discs required for playback.
M700 Disc Vault	KVAULT-M700	Same as the DV700 Disc Vault, but adds an integrated player that plays Blu-ray quality movies, DVD quality movies, and CDs, all streamed from the server.

Data Protection

Every server in the Premiere line includes **RAID-K technology**, a proprietary technology developed by Kaleidescape to provide data protection for movies and music. With RAID-K technology, a failed hard drive should not cause any loss of data.

Unlike other variations of RAID technology, RAID-K allows new drives with different storage capacities to be added to the array. However, RAID-K technology does NOT allow swapping used disk cartridges between servers.

The 3U Server has an additional protection feature, a hot spare disk cartridge. If a drive fails, information on the failed disk is automatically rebuilt on the hot spare disk cartridge, and the Premiere system continues to operate without loss of data protection.

The hot spare disk cartridge reduces urgent service calls, and provides peace of mind for marine or other remote installations.

System Control

There are several Kaleidescape options available for controlling a Premiere system.

- ▶ Kaleidescape Remote
- ▶ Kaleidescape App for iPad
- ▶ Kaleidescape Child Remote
- ▶ Browser interface control panels

In addition, a Premiere system can be controlled by several types of third party control devices.

- ▶ Infrared (IR) remotes
- ▶ Touch panels
- ▶ Keypads

Kaleidescape provides control modules and templates as well as sample programs for several products from leading manufacturers. Kaleidescape also provides database files and IR codes for popular IR remotes. For more information on control systems, see Control Systems on page 104.

Installation Requirements

The equipment required to install a Premiere system depends on the installation site and system configuration. Basic requirements fall into four categories. Figure 1-1 shows a typical Premiere system installation.

- ▶ General equipment
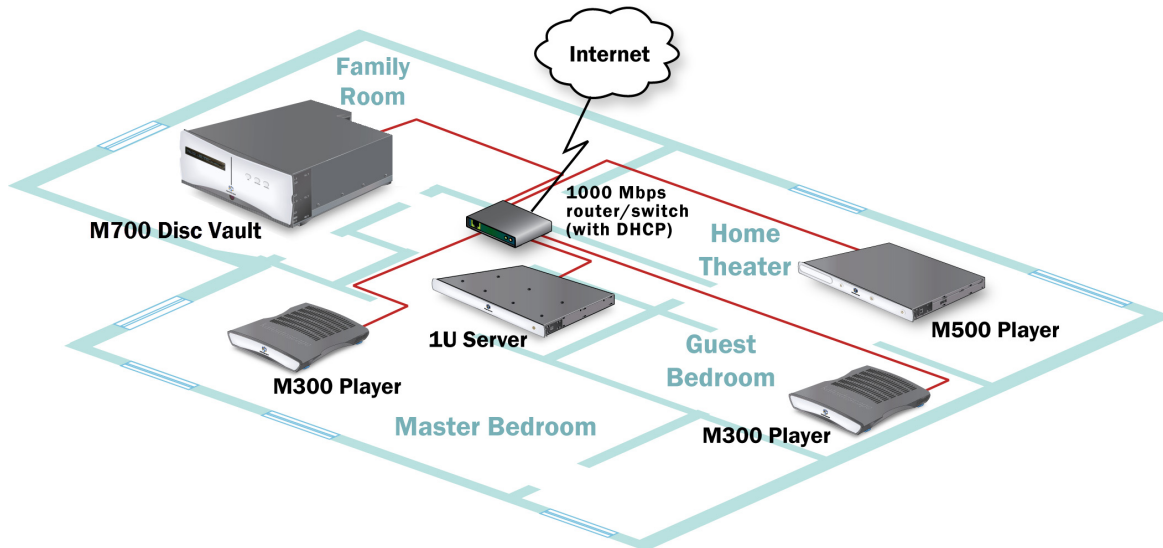- ▶ Network requirements
- ▶ Audio cables
- ▶ Video cables

Figure 1-1   Typical Premiere System Installation

General Equipment

The following basic items are required:

- #2 Phillips screwdriver to rack mount system components
- High-quality surge protector and sufficient outlets
- Computer with an Ethernet port and a web browser running an up-to date version of the Java software.

Network Requirements

The site network must meet the following minimum requirements:

- High-speed Internet connection
- Gigabit Ethernet switch with sufficient ports
- Cat5e or better twisted-pair Ethernet cables with RJ45 connectors

For detailed network requirements, see Network Requirements on page 165.

Audio Cables

Players in the Premiere line have multiple audio connectors, including a combined audio/video High-Definition Multimedia Interface (HDMI) connector.

For more information on audio installation, see Video and Audio Settings on page 80.

Video Cables

Players in the Premiere line have multiple video outputs including a combined audio/video HDMI output.

For more information about video installation, see Video and Audio Settings on page 80.

Installation Locations

When installing a Premiere system, the following considerations must be addressed:

▶ Customer requirements

▶ Ventilation and clearance

▶ Proper grounding

For detailed information on the best places to install components, see Physical Installation on page 25.

Space Planning

All components in the Premiere line fit in standard 19 inch racks, and other than the M300 Player, ship with removable mounting brackets, or rack ears.

Note: M300 players fit in a 19 inch rack when mounted on an optional Mini Player Rack-Mount Shelf (KSHELF-300) that can hold up to two mini players.

When planning the site, the following criteria must be met:

• Components must have adequate ventilation
• All components require at minimum a 1 inch clearance in front and a 2 inch clearance at the rear
• Front grilles must be unobstructed

Some components need more space if the rack has a front door.

• The 3U Server front panel opens outward from the top
• The 1U+ Movie Server has a removable front panel for disk cartridge access
• M500 Players have disc trays that must be able to eject unobstructed
• DV700 and M700 Disc Vaults must be able to accept discs and eject discs from the front slot unobstructed

Power Supplies

Power supplies in components in the Premiere line are universal input and operate on any nominal line voltage between 100–240 V, 50–60 Hz.

Power outlets must be grounded and preferably shielded from power surges and brownouts. Kaleidescape recommends a high-quality surge protector for the server power source; a UPS is optional. See Table 3-1 on page 27 for a detailed list of component power consumption.

A/V Connections to Players in the Premiere Line

There are two options for installing components in the Premiere line.

- A/V closet with cables that run from player to the video display
- Same area as the display for (1) IR control, (2) disc tray access, and (3) short HDMI cable lengths

Note: Check manufacturer specifications of cables to the A/V equipment. Table 3-2 on page 29 lists cable length limits for optical and coaxial cables.

Unpacking and Inspection

A Premiere system ships with components individually boxed. Check the packing list to verify that all components are included in the order.

Note: Be sure to save original packaging in case anything has to be shipped. Failure to use the original packaging for return shipments may void the warranty.

3U Server

The 3U Server ships with disk cartridges in the shipping box that must be installed in the server. The server ships with an IEC-type AC power cord and screws for rack mounting.

1U+ Movie Server

The 1U+ Movie Server ships with disk cartridges in the shipping box that must be installed in the server. The server ships with an IEC-type AC power cord and screws for rack mounting.

M500 Player

The M500 Player ships in a single box with an IEC-type AC power cord, screws for rack mounting, a remote control and two AA batteries, and side panels.

M300 Player

The M300 Player ships in a single box with the following items:

- Bracket for wall mounting the mini player
- Bracket for wall mounting the mini player power supply
- Power supply and IEC-type AC power cord
- Screws and drywall anchors for wall mounting brackets
- Remote control and two AA batteries

A Mini Player Rack-Mount Shelf contains a rack-mounting kit for mounting one or two mini players in a 19 in. rack. The shelf (KSHELF-300) is available separately.

DV700 Disc Vault

The disc vault ships in a single box with an IEC-type AC power cord and rack ears and screws for rack mounting.

M700 Disc Vault

The disc vault ships in a single box with an IEC-type AC power cord, rack ears and screws for rack mounting, and a remote control and two AA batteries.

Kaleidescape Disc Collections

Blu-ray or DVD Collections ship in boxes containing the physical Blu-ray discs or DVDs inside unopened cases.

Activating the System

After a Premiere system is installed, it must be activated by the customer.

Until the system is activated, the following reminder message appears when playing a movie that is stored on the system.

> Please register your system at **http://www.xxx.yyy.zzz**
>
> You can use your system 50 more times before you are required to register it.
>
> Press **OK** or **Select** to clear this message for 60 minutes.

Note: http://www.xxx.yyy.zzz is the IP address of the server.

The message can be dismissed a limited number of times to perform video calibration or other testing. When the number of dismissals reaches zero, the text remains and cannot be dismissed. At that time, the customer must activate the system to remove the activation message.

Note: Movies or albums can be played from the tray without the message appearing. In addition, content can added to the server prior to activation.

This message disappears once activation is complete. The server must be connected to the Internet to activate the system.

Use the following procedure to activate the system.

Note: Activation must be completed by the system owner, not the dealer.
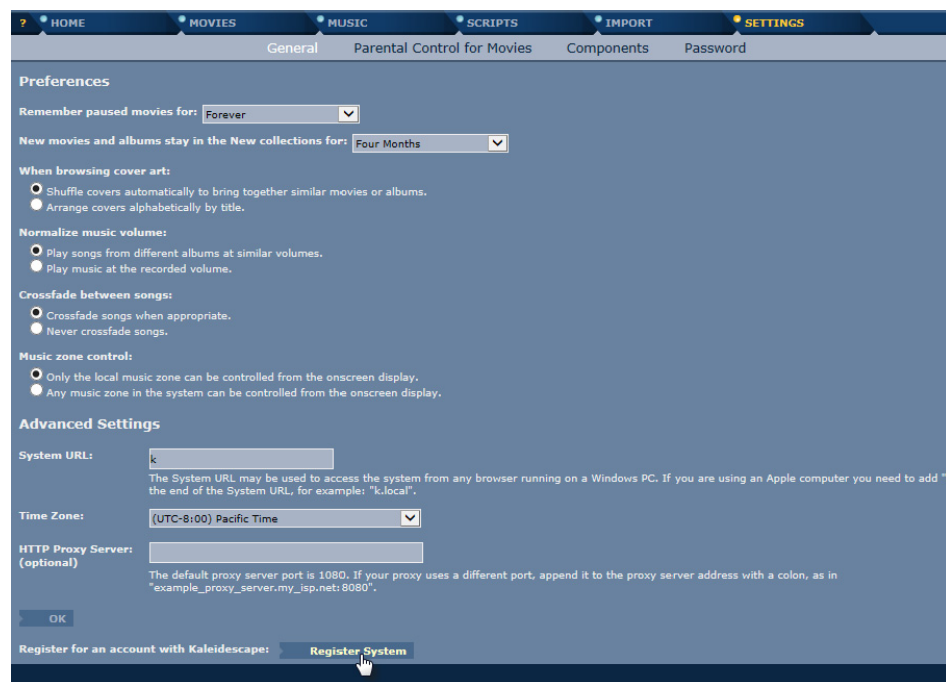
1. Open a web browser and enter:

   http://my-kaleidescape (Windows) or
   http://my-kaleidescape.local (Mac) or
   http://www.xxx.yyy.zzz (Windows or Mac) where www.xxx.yyy.zzz is the IP address of the server.

   If a login page appears, enter the password and select **Login**. The *HOME* page appears.

2. Open the **SETTINGS** tab and select **Register System** from the bottom of the page.

3. Enter the email address of the system owner and select **OK**.

Note: Before registering, be sure that all components are turned on and that all servers are listed.

4. An email will arrive from support@kaleidescape.com with activation instructions.

> **Note:**   If the message does not appear, check the spam or junk folder.

5. Follow the link in the email message.
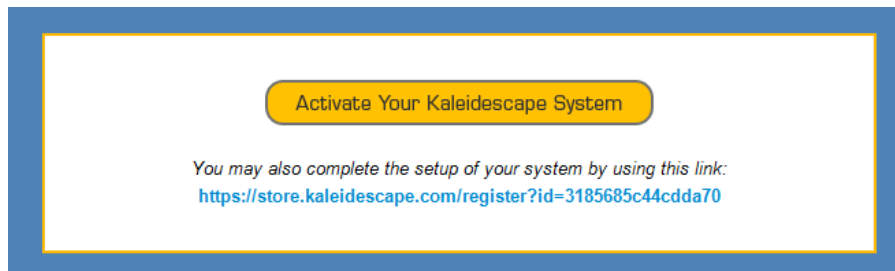
> **Note:**   The link is valid for 7 days. If it expires, restart the activation process.

6. The **Activate your Kaleidescape System Page** appears.

    a. Enter user information.

    b. Enter system information. Provide a unique name to distinguish the system from other Kaleidescape systems for the same owner.

    c. Select the button to agree to the terms of the Kaleidescape Service & License Agreement (SLA), and then select who will be entering into the agreement.

7. When all information has been entered, select the **Activate my Kaleidescape System** button at the bottom of the page. See Figure 1-2.

Figure 1-2   Activate My Kaleidescape System

8. When the Premiere system is installed in a territory where the Kaleidescape Movie Store is supported, the **Onscreen Offers Setup** page appears.

   a. Select the **Add a Payment Method** button and enter credit card information to allow purchasing of movies from the Kaleidescape Movie Store for direct download to the server.

   b. Select the **Enable** button to configure a passcode and enable purchases when browsing movies from the onscreen user interface.

      Note: When no passcode is configured, onscreen purchasing is disabled.

   c. Select **Link UltraViolet Library** and create a new UltraViolet account or link an existing UltraViolet account.

      Linking an UltraViolet account allows for disc to digital upgrades, and also allows many of the movies downloaded from the Kaleidescape Movie Store to be streamed to mobile devices running a third party UltraViolet player such as Flixster.

   The settings for the Kaleidescape Movie Store can be entered at any time on the **Account** page.

9. When all information has been entered, select the **Browse the Kaleidescape Store** button at the bottom of the page.