Kaleidescape Disc Vaults
Installation and Operation Guide

The M700 and DV700 Disc Vaults are designed to quickly add movies and music to your Kaleidescape System. Simply insert as many discs as you like, and walk away. Your disc vault does the rest.

On Premiere and Cinema One systems, Blu-ray discs, non-protected DVDs and CDs are automatically copied bit-for-bit to the server. Protected DVDs are automatically cataloged, allowing them to appear in your library the same as content downloaded from the Kaleidescape Movie Store or imported from disc. On Kaleidescape Alto, all Blu-ray discs and DVDs are automatically cataloged.

The disc vault holds up to 320 discs. When an imported Blu-ray disc remains in the vault, playback of the copy on the server is enabled from any compatible player in the system, including the integrated player in the M700 Disc Vault (when part of a Premiere system). When a cataloged Blu-ray disc or DVD remains in the vault, playback from the built-in optical disc drive is fully-automated to any player in the system.

This document provides steps for installing and setting up a disc vault, adding discs, using the integrated player in an M700 Disc Vault, and troubleshooting.

Installation

Unpack the disc vault, using a two-person lift technique to remove it from the box. The disc vault ships with feet and rack ears attached.

Tabletop / Shelf Installation

Use a 2.5 mm hex screwdriver to loosen and remove the seven screws that secure the rack ears to each side of the chassis. See Figure 1.

Figure 1   Removing Rack Ears

Rack Installation

Determine a location in the rack to install the disc vault. The disc vault requires five rack units, and ships with feet and rack ears attached.

CAUTION: **A disc vault is large and weighs 38 lbs (17.2 kg) when empty and 49 lbs (22.2 kg) when fully loaded with discs. Use two people to lift and rack mount a disc vault.**

1. Remove the front panel by gripping each side and pulling it straight from the disc vault. See Figure 2.

    Note: The front panel is heavier than it appears; remove with caution.

Figure 2   Removing the Front Panel

2. Remove the feet using a Phillips screwdriver so the disc vault does not obstruct the rack space below.

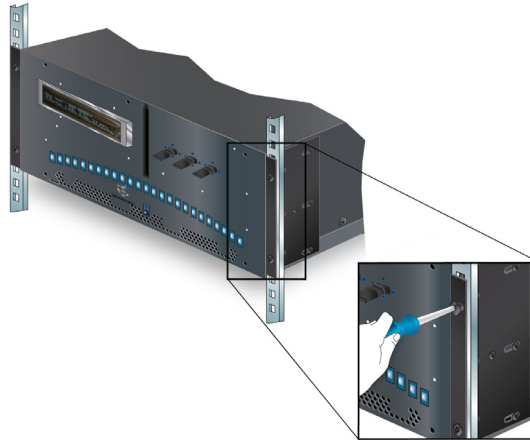3. Mount the vault in the rack with the provided Phillips screws. See Figure 3.

Figure 3   Mounting Disc Vault to the Rack

Note: If additional space at the back of the vault is required, adjust the rack ears using the following steps:

    a. Remove the center screw on each rack ear.

    b. Loosen the remaining screws and slide the rack ears back.

    c. Tighten the screws securely, disregarding the center screw.

4. Replace the front panel by aligning the metal tab at the bottom inside of the panel with the slot in the front of the chassis. Press firmly and evenly to snap the panel into place.

Connections

The disc vault must be connected to the same network where the Kaleidescape system is installed.

An M700 Disc Vault will operate as an M-Class player when part of a Premiere system. Audio and video connections are required to operate as an M-Class player. A controller connection is optional.

Note: When connected to Kaleidescape Alto or Cinema One (2nd generation), the M700 Disc Vault operates only as a disc vault. The M-Class player is disabled.

Network Connection

1. Make sure Kaleidescape Alto, Cinema One or the Premiere line server is connected to a wired network and powered on.

Note: Kaleidescape Alto cannot link to a disc vault when connected to the network using the wireless USB adapter.

Note: Cinema One can link to a disc vault when connected to the network using the wireless USB adapter, but only for importing content; playback of cataloged Blu-ray discs and DVDs is not supported.

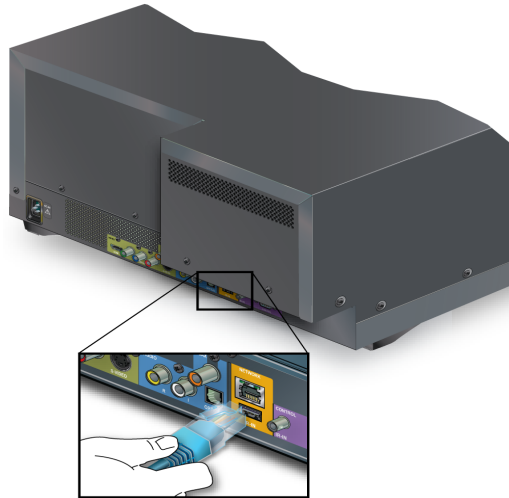2. Insert a Ethernet cable (Cat5e or better) into the network port on the back of the vault. See Figure 4.

Figure 4   Connecting the Network Cable

3. Insert the other end of the Ethernet cable into a **1000Base-T Ethernet switch** for optimal network communication.

   Note: After power is connected and a 1000Base-T link is established, the light on the left of the network port will glow amber to indicate the connection speed. When a 100Base-TX link is established, this light glows green. The right light blinks green when there is network activity.

Audio / Video Connections

Skip this section if the M700 Disc Vault will only be used for importing and housing, or if it is connected to Kaleidescape Alto or Cinema One (2nd generation). The DV700 Disc Vault does not have an integrated player.

The M700 Disc Vault provides several options for connecting audio and video for use as an M-Class player.

1. Connect audio and video cables to an HDTV, receiver, projector or monitor. High Speed HDMI® offers the best picture quality. Component, S-Video and composite connections are also available for DVD output only.

2. Connect audio outputs to the sound system (if applicable). Digital optical, digital coaxial and analog stereo connections are available. HDMI will also carry the audio signal.

Controller Connections

The integrated player can be controlled three ways: Ethernet (TCP/IP), serial (RS-232) and infrared (IR). IR commands can also be received via an 1/8"

jack on the rear panel. See www.kaleidescape.com/support/control-systems for information and modules for specific control systems.

Connect Power to Initialize

Connecting the power cord to begin automatic initialization. See Figure 5.

Note: Kaleidescape recommends using a grounded outlet and a high-quality surge protector to avoid electrical damage.
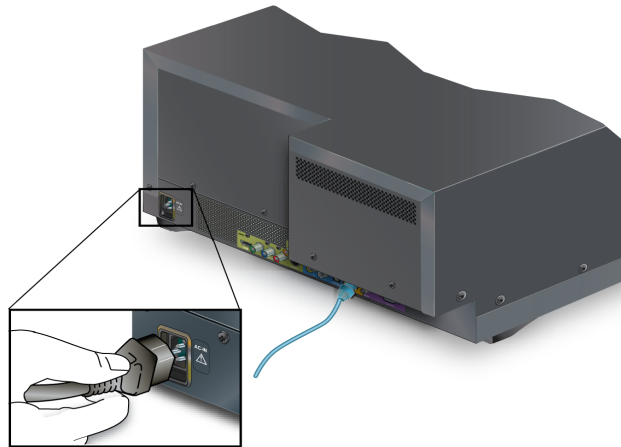

Figure 5   Connect the Power Cord

Initialization may take several minutes. A message appears on the front panel display until the vault is ready to accept discs and commands.

```
Disc vault is initializing
Please wait a moment
```

Linking the Vault

Up to two disc vaults can be linked to a Kaleidescape Alto system, while one disc vault can be linked to a Cinema One system. Kaleidescape recommends no more than 10 disc vaults are linked to a single Premiere system. For more details, visit the Large Systems Design Guide for Premiere Line.
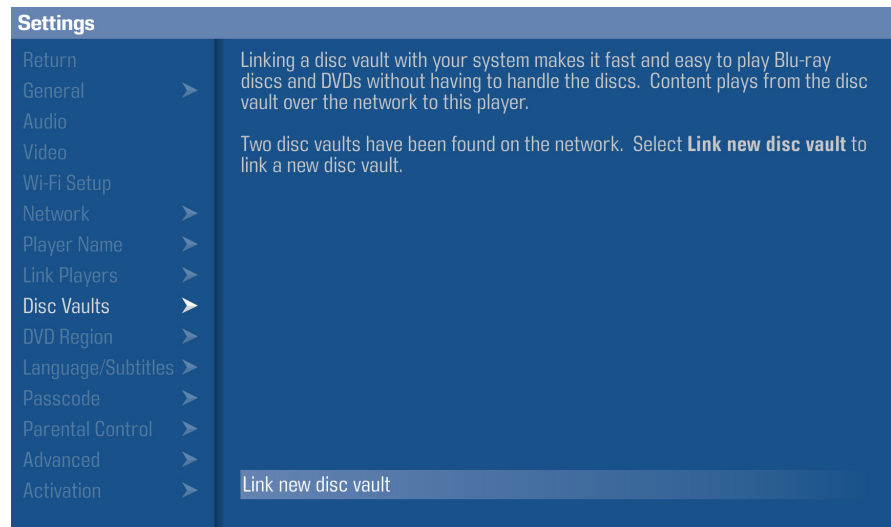
The M700 or DV700 Disc Vault can be linked to Kaleidescape Alto or Cinema One (2nd generation) from the onscreen user interface or the browser interface, while a disc vault can only be linked to a Premiere system from the browser interface.

Note: When connected to Kaleidescape Alto or Cinema One (2nd generation), the M700 Disc Vault operates only as a disc vault. The M-Class player is disabled.
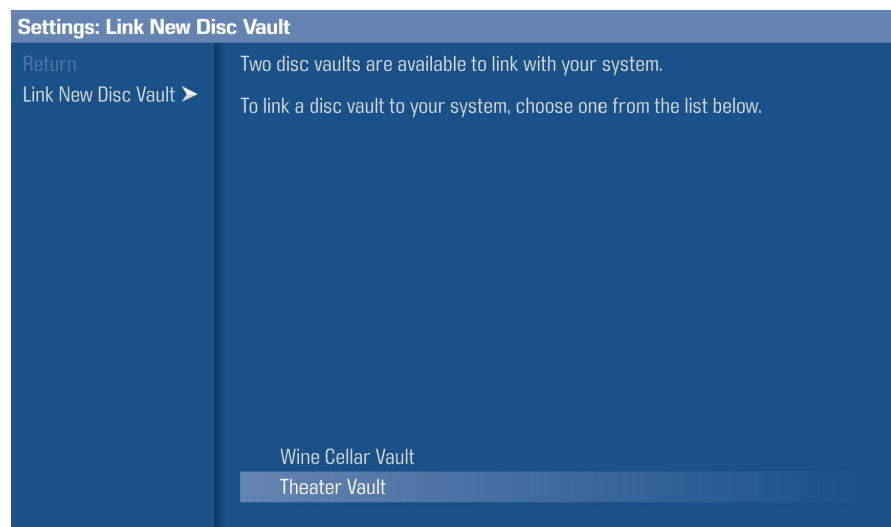
Onscreen User Interface

The following steps outline how to link a DV700 or M700 Disc Vault from the onscreen user interface of Alto or Cinema One (2nd generation).

1. Press the **Menu** button on the Kaleidescape remote, or press **Menu** on the *Remote Control* page of the Kaleidescape iPad app.

2. Use the arrow buttons to highlight **System**, then select **Settings**. The *Settings* page appears.

3. Select **Disc Vaults** (Alto) or **Disc Vault** (Cinema One).

4. Select **Link new disc vault**.

Note: If **Link new disc vault** does not appear, the vault is not detected. Check that the vault is powered on and connected to the network.

5. Choose the disc vault to link from the list.

Note: It may take several minutes for the vault to join the system, especially when a software update must be performed.
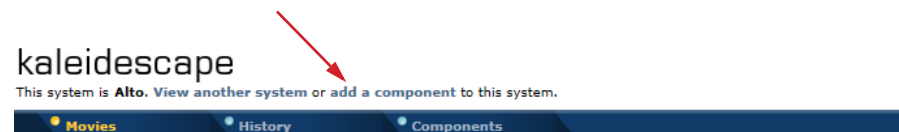
Browser Interface

The following steps outline how to link a DV700 or M700 Disc Vault from the browser interface. The browser interface must be accessed from a computer on the same local network as the Kaleidescape System.

1. Load the browser interface by visiting:

   - http://my-kaleidescape (Windows),
   - http://my-kaleidescape.local (Mac) or
   - http://[server_IP_address] (Windows or Mac).

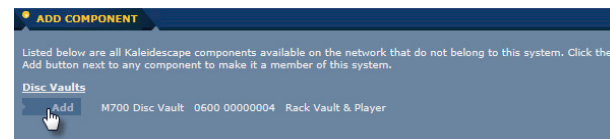   For help loading the browser interface, visit
   http://www.kaleidescape.com/go/browser-interface/

2. Select **add a component** from the message at the top of the browser interface.

   Note: If **add a component** is not present in the message, check that the vault is powered on and connected to the network.

3. The *ADD COMPONENT* page appears listing all components on the local network. Locate the vault from the list and click **Add**.

   Note: It may take several minutes for the vault to join the system, especially when a software update must be performed.

4. When adding more than one vault, repeat step 3.

5. When done adding vaults, close the *ADD COMPONENT* page.

Using the Vault

Inserting Discs

Titles are added to the system in the order they are inserted into the disc vault.

1. Insert discs into the insertion slot one at a time with the label facing to the **right**, releasing the disc just as it is engaged by the internal mechanism. See Figure 6.

CAUTION: **Do not insert discs when the lights glow amber at the top and bottom of the insertion slot.**

Display

Insertion slot

IR sensor

OK button
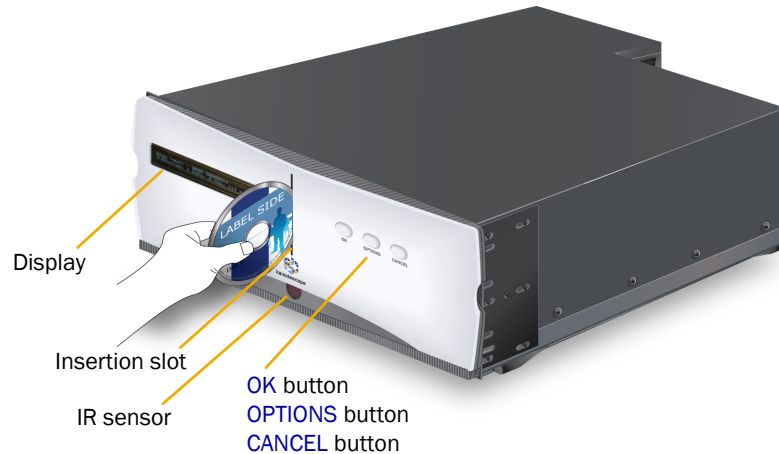OPTIONS button
CANCEL button

Figure 6   The Front Panel

2.   Load all the discs.

As discs are inserted, the front panel display shows how many discs are waiting to be identified. If no discs are loaded for two minutes, identification begins automatically. Press the **OK** button to start this process immediately.

```
[xx] discs to be identified
```

Note: The disc vault installation can be staged. Discs can be loaded before connecting the disc vault to the Kaleidescape system. The vault can be transported in an equipment rack or in the original packaging without removing the discs. At all times during transportation, the disc vault must remain upright in its normal operating orientation.

If cataloging or importing of a disc is interrupted by a loss of power or network communication, the process will restart automatically once power and network communication is restored. Only the current title is affected.

Cataloging and Importing Discs

When the M700 or DV700 Disc Vault is connected to Kaleidescape Alto, all Blu-ray discs and DVD will be cataloged.

When the M700 or DV700 Disc Vault is connected to a Premiere system or a Cinema One system sold by Kaleidescape on or after November 30th 2014, CSS-protected DVDs are automatically cataloged. For more information, visit www.kaleidescape.com/protected-dvds.

Premiere systems and Cinema One systems that opt in to allow the download of Disney content from the Kaleidescape Movie Store, can no longer import discs from Disney. On such systems, Blu-ray discs and DVDs

from Disney will automatically be cataloged when inserted into a disc vault, regardless of when the system was sold by Kaleidescape. For more information, visit http://www.kaleidescape.com/go/disney.

A disc vault automatically catalogs or imports discs after identification. No user action is required. On average, it takes 60 minutes to import a Blu-ray disc, 20 minutes to import a DVD, and 15 minutes to import a CD. Cataloging a disc takes less than a minute.

Monitoring Progress

The front panel display shows how long the current disc has left.

```
Importing: [Title of disc]
[xx]% done, [xx] minutes left
```

Progress can also be monitored from the onscreen user interface or from the browser interface.

Onscreen User Interface

Press the **Menu** button on the Kaleidescape remote.

▶ Monitoring progress for the current disc.

1. From the Kaleidescape menu, use the arrow keys to highlight **System**, then select **Status**.

2. Select **Disc Imports**.

▶ Checking vault summary.

1. From the Kaleidescape menu, use the arrow keys to highlight **Discs**, then select **Vault Summary**.

Browser Interface

1. Open a web browser on a computer connected to the network and access the browser interface.

   • http://my-kaleidescape (Windows),
   • http://my-kaleidescape.local (Mac) or
   • http://[server_IP_address] (Windows or Mac).

   For help loading the browser interface, visit http://www.kaleidescape.com/go/browser-interface/

2. To monitor progress and view the status for all discs in the vault, select the **Disc Vaults** (Alto and Cinema One) or **DISC VAULTS** (Premiere systems) tab.
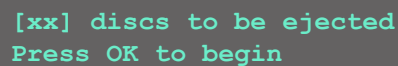
3. To monitor progress and view a chronological list of all content added to the system, select the **History** tab (Alto), the **Movies and Music** tab (Cinema One), or the **IMPORT** tab (Premiere system).

Ejecting Discs

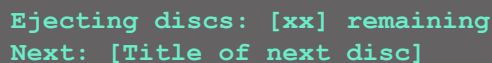There are several methods for ejecting discs from the disc vault.

▶ Using the front panel buttons

▶ Using the browser interface

▶ Using the onscreen user interface

Discs requested for ejection using any method will not begin ejecting until the **OK** button on the front panel is pressed.

```
[xx] discs to be ejected
Press OK to begin
```

The front panel display indicates how many discs remain to be ejected. You may press **CANCEL** at any time to terminate pending ejections.

```
Ejecting discs: [xx] remaining
Next: [Title of next disc]
```

Using the Front Panel Buttons

1. Press **OPTIONS** to cycle through the eject choices:

   - **Eject all DVDs?**

   - **Eject all CDs?** *(does not appear for systems that do not support music, such as Kaleidescape Alto)*

   - **Eject all discs?**

   - **Eject all Blu-ray discs?**

   - **Eject discs not required for playback?** *(does not appear for systems that do not import, such as Kaleidescape Alto)*

2. Press the **OK** button to select the eject option on the front panel display. Or press **CANCEL** to exit the options menu.

3. Remove each disc from the slot as it is ejected.

Using the Browser Interface

1. Open a web browser on a computer connected to the network and access the browser interface.

    - http://my-kaleidescape (Windows),
    - http://my-kaleidescape.local (Mac), or
    - http://[server_IP_address] (Windows or Mac).

    For help loading the browser interface, visit
    http://www.kaleidescape.com/go/browser-interface/

2. Select the **Disc Vaults** (Alto and Cinema One) or **DISC VAULTS** (Premiere systems) tab. Here you see a list of the discs in all vaults. You can sort by title, type, disc vault name, or status.
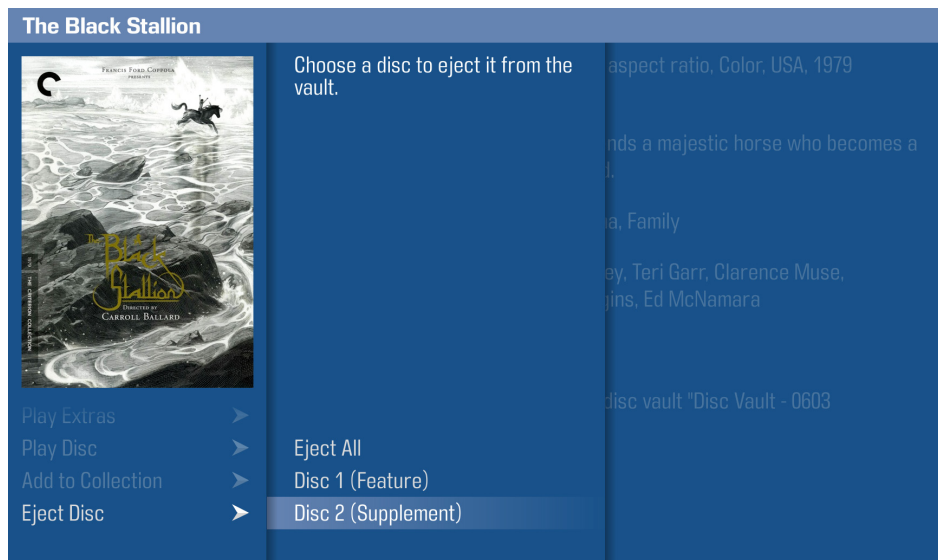

Figure 7   **Disc Vaults Page** (on Alto)

3. Check the boxes next to titles to be ejected. Checking the box to the left of **Title** at the top of the page selects all discs. See Figure 7.

4. Click **Eject Selected** at the bottom of the page.

5. Press **OK** on the front panel of the disc vault to confirm and begin ejection.

6. Remove each disc from the slot as it is ejected.

Using the Onscreen User Interface

Use the onscreen user interface to eject individual discs, all discs, or all discs of a certain format (e.g., all Blu-ray discs, all DVDs, all CDs).

To eject an individual disc, locate the movie or album and select the title to open the details page. On Premiere systems and Cinema One systems, scroll down and select **Eject Disc**. If the title has more than one disc, highlight **Eject Disc** and select the individual disc.

On Kaleidescape Alto, scroll down and select **More Options**, then select either **Eject Disc** or **Delete & Eject Disc**.

After ejecting the disc, press **OK** on the front panel of the vault.

Note: The details page identifies the location of the disc by vault name.

To eject all discs, or all discs of a certain format, press **Menu** on the Kaleidescape remote and use the arrow keys to highlight **Discs**; then select **Vault Summary**. Select the discs you wish to eject.

- **Eject all Blu-ray discs**

- **Eject all DVDs**

- **Eject all CDs** *(does not appear for systems that do not support music, such as Kaleidescape Alto)*

- **Eject all discs**

- **Eject discs not required for playback** *(does not appear for systems that do not import, such as Kaleidescape Alto)*

Setting up the Player

Settings

HDMI plug-and-play information is used to automatically configure the player integrated into the M700 Disc Vault. If necessary, use the browser interface to change disc vault settings.

1. Open a web browser on a computer connected to the network and access the browser interface.

   - http://my-kaleidescape (Windows),
   - http://my-kaleidescape.local (Mac) or
   - http://[server_IP_address] (Windows or Mac).

   For help loading the browser interface, visit http://www.kaleidescape.com/go/browser-interface/

2. Select the **SETTINGS** tab.

3. Select **Components** from the new row of headings.

4. Click **Settings** for the disc vault.

5. Here you can change basic settings like primary video output, HDMI audio decode mode, and language preferences. For more details about setting up the player, see the Kaleidescape Premiere Line Installation Guide at: www.kaleidescape.com/install.

Troubleshooting

When there is an issue that needs to be resolved, the front panel lights glow amber and a display message appears.

Note: Resolving some issues may require you to access the **Components** page of the browser interface.

Note: On Kaleidescape Alto and Cinema One (2nd generation), resolving some issues may require you to access the vault settings from the onscreen user interface:

Menu > **System** > **Settings** > **Disc Vaults**

Message	Resolution
`Please verify vault connected to network`	Check all network connections and make sure your switch and/or router is powered on.
`Set for DHCP, but no DHCP server`	Check all network connections. If required, set a static IP address for the disc vault.
`Unable to communicate with server` `Vault IP address: XXX.XXX.XXX.XXX`	Make sure the server is present, running and connected to the network.
`Choose a Kaleidescape System` `See www.kaleidescape.com/go/link-vault`	Visit the web address to learn how to link the vault to a Kaleidescape System.
`Disc unreadable; inverted or dirty?` `Clean disc & insert with label to right`	Press **OK** to eject disc. Check its condition. It may be a data disc, a damaged disc or inserted backwards.
`Cannot import region [x] DVD` `Please remove disc`	Press **OK** to eject DVD. The disc vault is shipped set to region 1 and can be changed up to four times. See article K000101 to change.
`Error [XX]; press OK to restart`	Press **OK**. If the problem persists, contact Kaleidescape Support and provide the error code.

Kaleidescape Technical Support

When contacting Kaleidescape Technical Support, be prepared with the serial number of the disc vault and the server, and a detailed description of the problem.

▶ Get the Kaleidescape Installation Guides at
http://www.kaleidescape.com/support/doc.php

▶ See www.kaleidescape.com/support for the latest manuals and guides, Knowledge Base, and more technical and customer support resources.

▶ support@kaleidescape.com

▶ **+1 (650) 625-6160**