Christie PowerTool 3.1

User Manual

020-100035-04

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Table of Contents

Introduction

This document provides information and procedures for using Christie PowerTool. You can use Christie PowerTool to manage the settings of multiple projectors.

For information about specific projector functions, see the projector User Manual.

Recommended Computer Hardware and Software

- Computer requirements:
    - An Intel or a compatible processor
    - Windows XP SP3+ (32-bit only) or Windows 7 (32- and 64-bit)
    - 256 MB of free disk space
    - 256 MB of RAM (512 MB recommended)
- A physical or a wireless Ethernet connection
- One or more projectors with firmware version 1.2f or later installed
- Xport firmware version 3.1.2.0 or later installed on each projector

Wired Network Hardware Requirements

- 1 network hub
- 1 Ethernet cable to connect the computer to the network hub
- 1 Ethernet cable for each projector

Sample Wired Network Topology
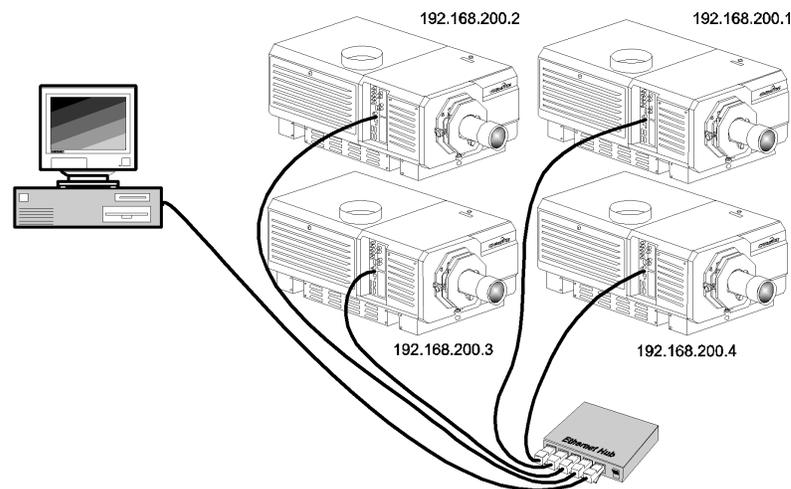
Wireless Network Hardware Requirements

- 1 wireless network hub

- 1 wireless-enabled computer

- 1 Ethernet cable for each projector

Sample Wireless Network Topology
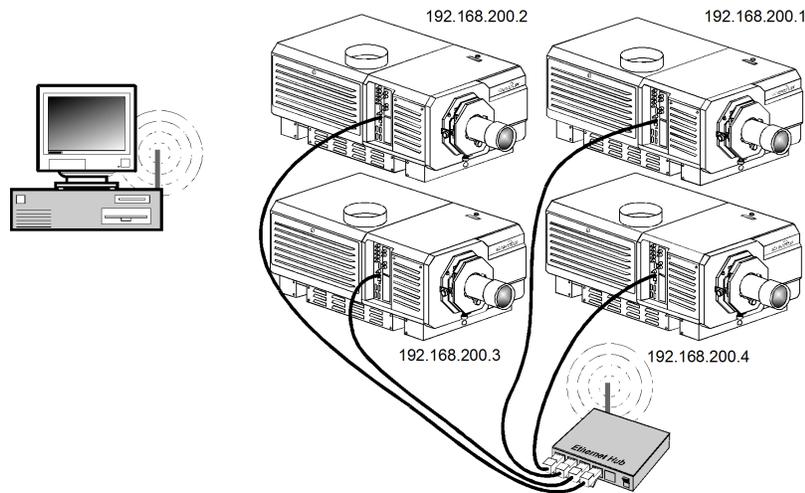
Install the PowerTool Software

1. Insert the PowerTool installation CD in the CD-ROM drive of the computer you will use to manage your projectors.

   If the installation wizard does not start:

   a. Click **Start**.

   b. Enter **Run** in the **Search programs and files** field.

   c. Click **Run** below **Programs**.

   d. Enter <CD-ROM Drive Letter>\AutoRun.exe. For example, D:\AutoRun.exe.

   e. Click **OK**.

2. Complete the installation wizard.

3. Click **Finish** when the software is installed.

Start the PowerTool Software

Click **Start** > **All Programs** >**Christie** > **PowerTool 3.1** > **PowerTool 3.1**.

Uninstall PowerTool

1. Click **Start** > **Control Panel** > **Programs and Features**.

2. Right-click **Christie PowerTool** and select **Uninstall**.

3. Click **Yes**.

The PowerTool Interface

This section provides information about PowerTool interface controls and functions.

The File Tab

Control	Description
New	Creates a new configuration.
Open	Opens an existing configuration
Save	Saves the current configuration.
Save As	Saves the current configuration with a new file name.
Add Projectors	Adds projectors to the configuration.
Create Group	Creates a new projector group.
Remove	Removes groups or projectors from a configuration.
Rename	Renames a group or a projector.

The Home Tab
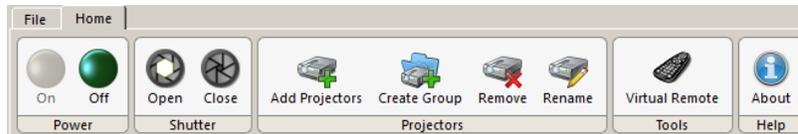
Control	Description
On/Off	Turns a projector on or off. Both buttons are active when some of the selected projectors are off. Click **On** to turn all of the projectors on.
Open/Close	Opens or closes the projector shutter,
Add Projectors	Adds projectors to the configuration.
Create Group	Creates a new projector group.
Remove	Removes groups or projectors from a configuration.
Rename	Renames a group or a projector.
Virtual Remote	Opens the Virtual Remote application.
About	Opens the PowerTool help file.

Projector List Pane Status Icons

The Projector List pane lists all of the projectors managed by the PowerTool application.
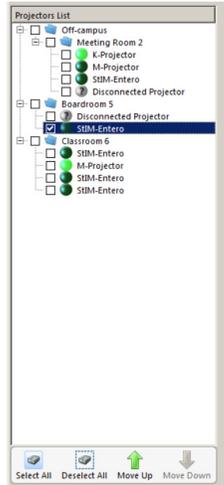
This table provides descriptions of the status icons assigned to each projector.

Icon	Description
Dark green circle	The projector is off.
Light green circle	The projector is on and you can manage it with PowerTool.
Question mark	The projector cannot communicate with the PowerTool application.

The Status Pane

The status pane displays projector status information.

Device Information

The Device Information area lists the model name, model number, firmware, and operational hours for the lamp and projector. Errors are also displayed here.

Device Temperatures

The Device Temperatures area lists the operating temperatures of projector components.

The Input Signal Pane

Use the Input Signal pane to assign input sources to a projector. If you select multiple projectors, only the sources supported by all of the projectors are listed.
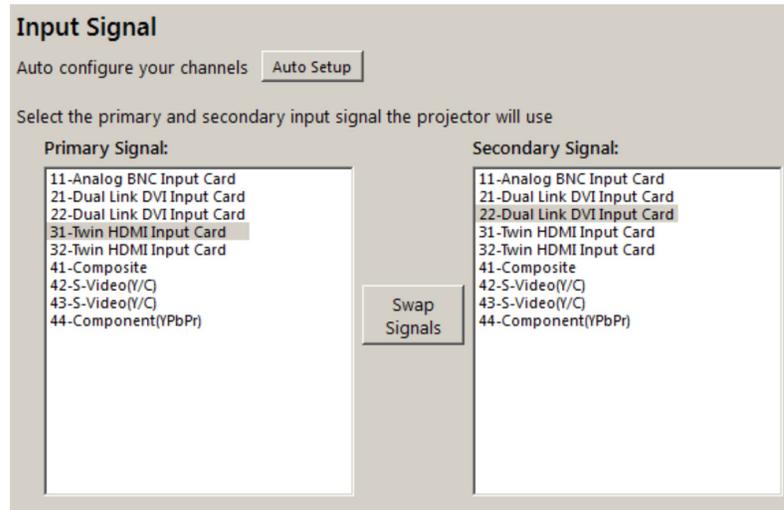

Click **Auto Setup** to optimize the settings for the selected input source. Selecting **Auto Setup** overrides all manually configured settings. To use auto setup, the channel must be unlocked. If you select multiple projectors, auto setup is run on each of the projectors in succession. Auto setup cannot be run if the input source is inactive. These are the settings modified by auto setup:

• Pixel tracking	• Contrast
• Pixel phase	• Brightness
• Size and blanking	• Auto input level - off
• Vertical stretch	• Detail (video sources only)
• Position	• Filter
• Input levels	• Luma delay

The Test Pattern Pane

Open the Test Pattern pane to display a test pattern.
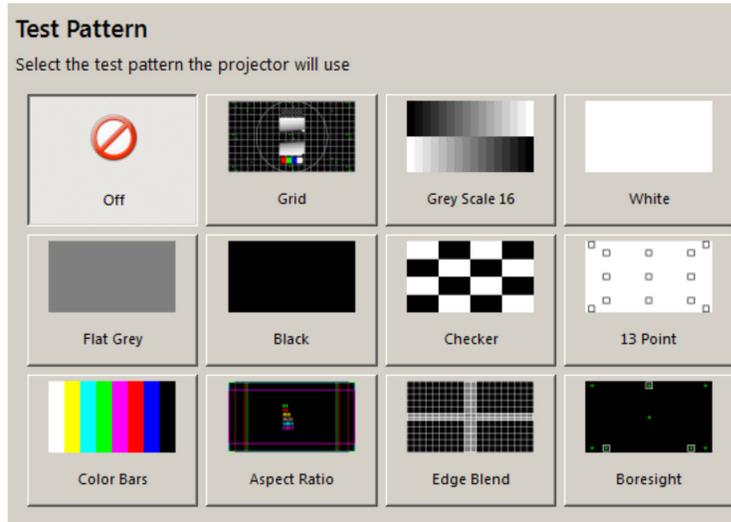
The Lens Pane
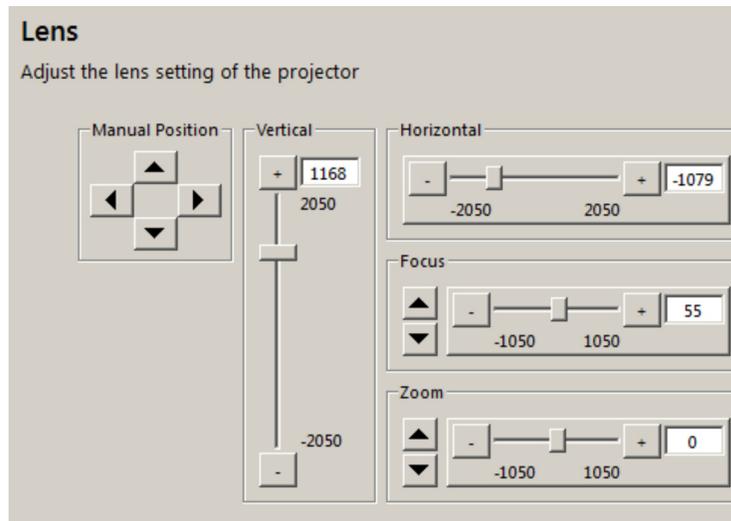
Only a single lens can be adjusted at a time. This table provides descriptions of the options available on the Lens pane.

Control	Description
Manual Position	Manually adjusts the lens position.
Vertical	Adjusts the vertical lens offset.

| Control	Description
Horizontal	Adjusts the horizontal lens offset.
Focus	Adjusts the lens focus.
Zoom	Increases or decreases lens zoom.

The Lamp Pane
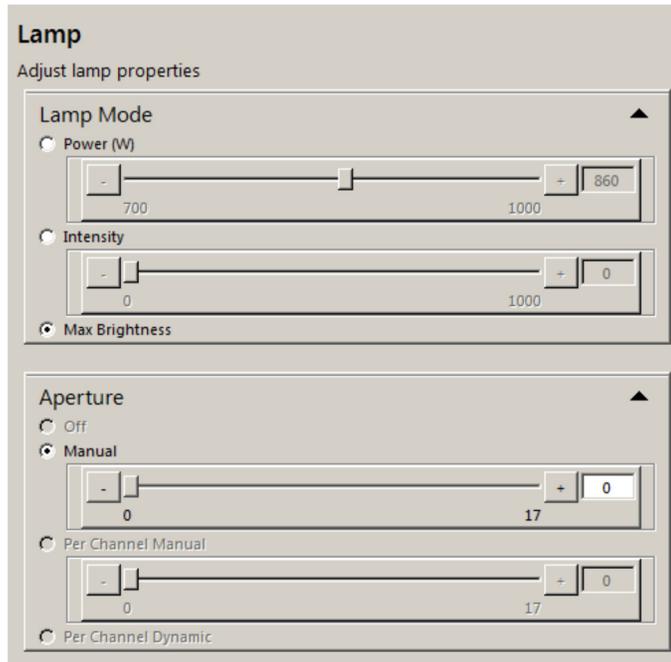
This table provides descriptions of the options available on the Lamp pane.

Control	Description
Power	Sets the lamp power.
Intensity	Sets the intensity (brightness) of the projector lamp. As the lamp ages, the intensity automatically increases to compensate.
Max Brightness	Sets the lamp to its maximum brightness value. This value decreases as the lamp ages.
Off	Turns aperture control off.
Manual	Adjusts the aperture.
Per Channel Manual	Adjusts the aperture setting on a specific channel.
Per Channel Dynamic	Automatically adjusts the aperture setting on a specific channel.
Lamp History	Displays the lamp history for the projector.

The Image Pane

Use the Image pane to adjust the projector image. Typically, the automatic settings on the projector optimize image settings for all input sources correctly. You can only adjust the image settings of a single projector at a time. The **Auto Levels** option is not available when multiple projectors are selected. You cannot adjust image settings if a test pattern is displayed.
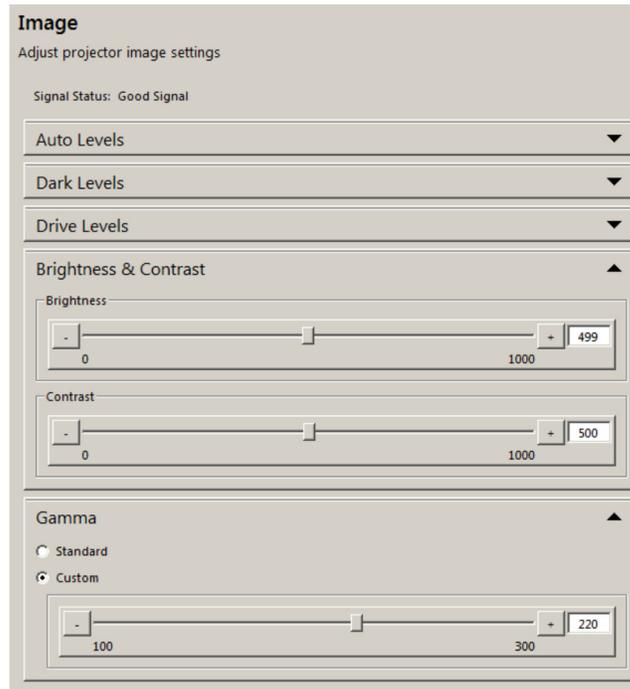
This table provides descriptions of the options available on the Image Setting pane:

Control	Description
Enable Auto Levels	Automatically adjusts the BNC and DVI-A input dark and drive levels. Select this option if one of your signals is weaker than normal for one particular color. When selecting this option, make sure the contrast and brightness settings are near 50 and color temperature is properly configured with an internal gray scale test pattern. Clear this option before closing PowerTool.
Dark Levels	Adjusts the red, green, and blue dark levels of the selected projector input. Adjustments can help improve noisy sources with black level fluctuations. Adjustments can also help improve image input levels and eliminate overshoot and undershoot conditions.
Drive levels	Adjusts the drive levels of poorly mastered source material.

Control	Description
Contrast	Increases or decreases the perceived difference between light and dark areas of the image. The adjustment range is 0 to 100 and the recommend setting is 50.
	If you set contrast too high, the light parts of the image lose detail and clarity. If you set contrast too low, the light areas are not as bright as they could be and the overall image is dim. For best results, start with a low value and increase so that whites remain bright, but are not distorted or tinted, and that light areas do not become white (crushed). If the environment lighting changes, adjust the gamma setting.
	This control is not available when multiple projectors are selected, if a test pattern is running, or if there is a video signal error.
Brightness	Increases or decreases the amount of black in the image The adjustment range is 0 to 100 and the recommend setting is 50.
	For best results, start with a high value and decrease it so dark areas do not become black (crushed). A high brightness setting changes blacks to dark gray.
	This control is not available when multiple projectors are selected, if a test pattern is running, or if there is a video signal error
Gamma	Determines what gray shades are displayed between minimum input (black) and maximum input (white) for all signals. The adjustment range is 1 to 3. The default is 2.2.
	Adjust the gamma setting manually to optimize blacks and whites, and smooth transitions of the values used in other colors. You can lighten or darken the overall tone of your images without changing the extreme values. Images will be more vibrant, and show good detail in dark areas.
	Lower the gamma setting when excess ambient light washes out the image and it becomes difficult or impossible to see details in dark areas. Increase the setting when the image is washed out and unnatural, with excessive detail in black areas. In high ambient light conditions, a lower gamma setting can produce better results than a higher gamma setting.

The Color Pane

The options available on the Color pane are determined by the output color selection.
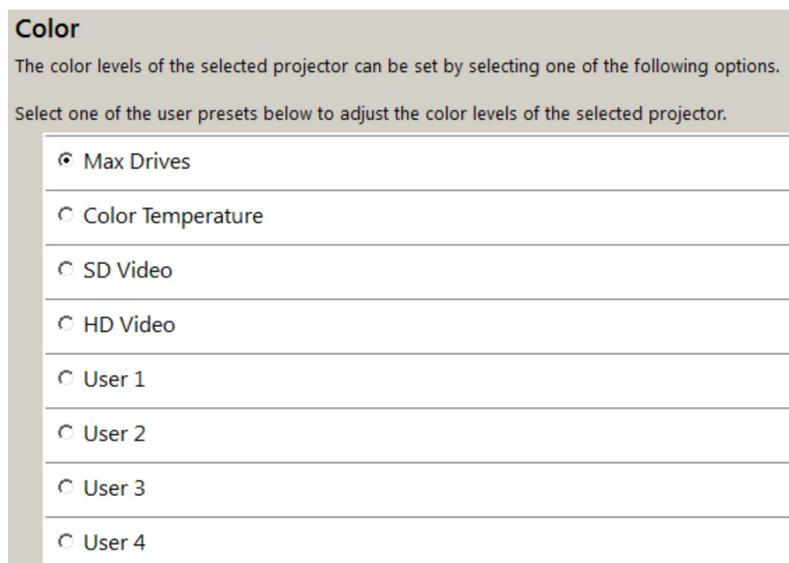
This table provides descriptions of the options available on the Color pane:

Control	Description
Max Drives	Adjusts all colors to their maximum values.
Color Temperature	Adjusts the color gamut in degrees Kelvin (3200-9300K). A higher value adds a reddish cast to the image. A lower value adds a bluish cast to the image.
SD Video	Optimizes the color settings for standard video sources.
HD Video	Optimizes the color settings for high definition video sources.
User 1 to 4	Select these options to adjust these settings: • Color saturation- adjusts the color saturation of the image • Color XY - adjusts the red, green, blue, and white colors with a RGB color model

The Color Matcher Pane

The color matcher pane displays a color gamut chart that represents the color gamut that the projector can display. Multiple projectors must be selected to apply or remove color gamut values.
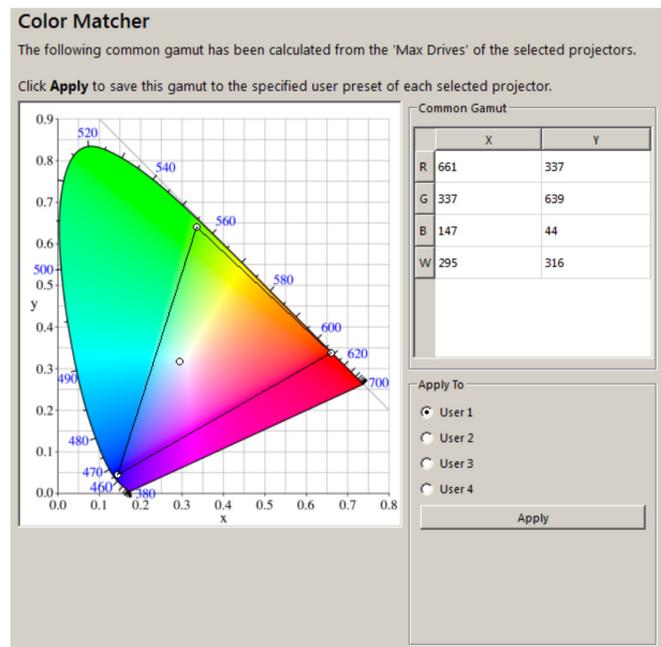
This table provides descriptions of the options available on the Color Matcher pane:

Control	Description
Apply	Applies common color gamut values to the selected projectors.

The Picture In Picture Pane

This table provides descriptions of the options available on the Picture In Picture pane:

Control	Description
Picture in Picture	Displays one image on top of the other and enables the controls. This option is only available when there is an active signal and a test pattern is not displayed.
Picture By Picture	Displays two inputs side by side. The Size and Position controls are not available.
Main Input Signal	Sets the source for the primary input.
PIP Input Signal	Sets the source for the PIP window. For a good quality image: • Avoid using two sources from the same decoder. • Use two different signal types if composite and S-video signals are on the same decoder. • Do not specify an interlaced source for the PIP window. • Use a setting of less than 165 MHz when using two digital signals or a single analog and digital signal. • Use a setting of less than 90 MHz if you are using two analog signals. • Avoid seamless switching when possible.
Swap	Moves the main image to the PIP window and makes the PIP image the primary image.
Preset	Moves the PIP window to a preset position. These are the available options: • Top Right • Top Left • Bottom Left • Bottom Right Select **Custom** to move the PIP window to a location you define.

Control	Description
Vertical	Adjusts the vertical position of the PIP window. The measurement unit is pixels.
Horizontal	Adjusts the horizontal position of the PIP window. The measurement unit is pixels.
Size	Sets the width of the PIP window in pixels. The default aspect ratio of the input image determines the window height.
Border Width	Sets the PIP window border width.
Contrast	Adjusts the contrast setting of the PIP window.
Brightness	Adjusts the brightness setting of the PIP window.
Gamma	Adjusts the gamma setting of the PIP window.

The Backup/Restore Pane
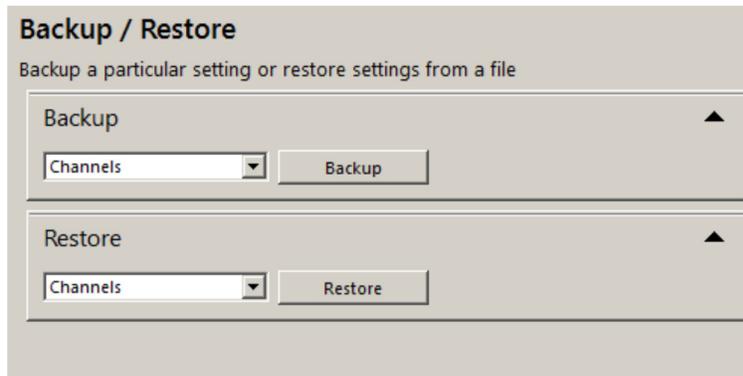
This table provides descriptions of the options available on the Backup/Restore pane:

Control	Description
Backup	Backs up projector channels or preference settings.
Restore	Restores projector channels or preference settings.

Work With Configuration Files

This section provides information and procedures for working with PowerTool configuration files.

You can create configuration files to store custom projector settings. When you open PowerTool a new, empty configuration is automatically created. You can use the default configuration and save it later, or you can open an existing configuration.

Save a Configuration File

1. Click **File** > **Save As**.
2. Browse to a location where you want to save the file.
3. Enter a name for the configuration file in the **File name** field.
4. Click **Save**.
5. Click **OK**.

Open a Configuration File

1. Click **File** > **Open**.
2. Browse to the location of the configuration file.
3. Select the configuration file.
4. Click **Open**.

Add a Projector to a Configuration File with the Search Function

To locate a projector with the search function, the projector must be on the same subnet as the computer on which PowerTool is installed. In addition, the projector must be connected to the network.

If the error message COMM ERROR appears, verify the correct port is specified. The error message can also appear during periods of high network traffic, or when the projector is not functioning correctly.

If auto detection fails, make sure every projector is assigned a unique identification number and IP address and verify the firewall and router settings are correct.

1. Click **File** > **Add Projectors**.
2. Click the **Broadcast** tab.

3. Select **Default** to search all ports.

   - or -

   Select **Custom** and specify a specific port on which to perform the search.

4. Move the **Network Impact** slider to **Fast** to search the network quickly using maximum bandwidth.

   - or -

   Move the **Network Impact** slider to **Safe** to limit the amount of bandwidth used to perform the search.

5. Click **Clear & Search** to clear previous search results and start a new search.

   - or -

   Click **Search** to start a new search.

6. Click a projector in the **Search Results** list.

   To select multiple projectors, click the left mouse button and press **CTRL**.

7. Click **OK**.

Add a Projector to a Configuration File Manually

1. Click **File** > **Add Projectors**.

2. Click the **Manual** tab.

3. Select **Single** in the **IP Address** list to search for a single projector with a specific IP address.

   - or -

   Select **Range** to search for all projectors within the specified IP address range

4. Enter the IP address.

5. Select a port number in the **Port** list.

6. Enter a password in the **Password** field if a password is required to access the projector.

7. Click **Clear & Search** to clear previous search results and start a new search.

   - or -

   Click **Search** to start a new search.

8. Click a projector in the **Search Results** list. To select multiple projectors, click the left mouse button and press **CTRL** while making multiple selections or click **Select All**.

9. Click **OK**.

Manage Projector Groups

This section provides information and procedures for creating and managing groups.

Adding projectors located in the same room or building to a group allows you to apply global settings.

Create a Group

1. Select a projector in the **Projectors List** pane.
2. Click **File** > **Create Group**.
3. Select the group and click **Rename**.
4. Enter a name for the group.
5. Press **Enter**.

Rename a Group or Projector

1. Select a projector or group in the **Projectors List** pane.
2. Click **Rename**.
3. Enter a name for the projector or group.
4. Press **Enter**.

Move a Group or Projector Up or Down in the Hierarchy

1. Right click a group folder or a projector in the **Projectors List** pane.
2. Select **Move Up**.

   - or -

   Select **Move Down**.

Add or Remove a Projector from a Group

To add a projector to a group, click and drag the projector to the group folder.

To remove a projector from a group, click and drag the projector from the group folder to the projector list.

Remove a Group or Projector

1. Right click a group folder or a projector in the **Projectors List** pane.

2. Select **Remove**.

3. Click **OK**.

Control Projectors

This section provides information and procedures for controlling projectors.

View Projector Information

1. Select a projector in the **Projectors List** pane.
2. Click **Status** in the **Projector Controls** pane.

   For more information about the Status pane, see *The Status Pane* on page 6.

Adjust Projector Settings

1. Select a projector in the **Projectors List** pane.

View the Projector Web Interface

Access the projector web interface to manage an individual projector or view status information.

1. Right-click a projector in the **Projectors List** pane.
2. Select Open Web Page.
3. Enter your user name and password and click **Login**.

Control the Projector with the Virtual Remote

The virtual remote application emulates the functionality of a physical remote control. Clicking a button on the virtual remote selects the same function as pressing the button on the physical remote control.

If the virtual remote fails to appear, it is not supported by the selected projector.

1. Select a projector in the **Projectors List** pane.
2. Click **Home** > **Virtual Remote**.

   If the virtual remote fails to appear, it is not supported by the selected projector.

3. Click a button on the remote control image.

Back Up and Restore Channels and Preferences

This section provides information and procedures for backing up and restoring preferences and settings.

Back Up Projector Channels or Preferences

1. Select a projector or a group in the **Projectors List** pane.
2. Click **Backup/Restore** in the **Projector Controls** pane.
3. Select **Channels** in the **Backup** list.

   - or -

   Select **Preferences** in the **Backup** list.
4. Click **Backup**.
5. Browse to a location where you want to save the back up file.
6. Enter a file name for the back up file in the File name field or keep the default file name.

   This is the format of the default file name:

   - channel_projector ID_MAC address-dd-mm-yyyy-hh-mm.chl
   - channel_projector ID__yyyy_mm_dd_hh_mm.tar
   - preferences_projector ID_MAC address-dd-mm-yyyy-hh-mm.tpr
   - preferences_projector ID__yyyy_mm_dd_hh_mm.tar
7. Click **Save**.
8. Click **OK** when the prompt appears.

Restore Projector Channels or Preferences

1. Select a projector or a group in the **Projectors List** pane.
2. Click **Backup/Restore** in the **Projector Controls** pane.
3. Select **Channels** in the **Restore** list.

   - or -

   Select **Preferences** in the **Restore** list.
4. Click **Restore**.
5. Browse to the location of the back up file.

6. Select the file and click **Open**.

7. Click **OK** when the prompt appears.

Preferences List

This table list the preference settings that are included in a preferences back up file.

Preference	Preference	Preference	Preference	Preference
Shutter	3D Stereo Select Sync	Test Pattern Grey	Focus	Language
Picture Mute	3D Stereo Sync Delay	Freeze Image	Internal Test Pattern	Screen Orientation
On screen Display	Frame Delay	Level Detector	Select Source	Broadcast Keys
Picture-in-Picture	Brightness Uniformity	Color Enable	Select Input	Projector Number
Active Projector	Edge Blending	Lamp Message Enable	Source/Channel Name	Password Enable
Auto Setup	Edge Blend Select	Lamp Limit	In Menu	Fan Sensor Enable
Size-Position Presets	Select Output Color	Lamp Mode	Source Memory Lock	PIP Border Width
Size	Warp Select	Lamp Power	Auto Source	Br. Uniformity Select
Vertical Stretch	2D Keystone Corners	Lamp Intensity	Delete Source	PIP Horizontal Position
Pixel Tracking	Warp Prefilter H	Lamp Changed	Baud Rate	PIP Vertical Position
Pixel Phase	Warp Prefilter V	Optical Aperture	Baud Rate Secondary	PIP Horizontal State
Horizontal Position	Warp Sharpness	LampLOC Module	Projector Number	Blue Odd Gain
Vertical Position	Warp Latency	Lamp Size	Broadcast Keys	Dark Interval
Top Blanking	Noise Reduction	White Boost	Network Routing	3D Stereo Sync Mode
Left Blanking	Motion Filter	Color Wheel Delay	Keypad Enable	Auto Power UP
Bottom Blanking	Film Mode Threshold	2nd Color Wheel Delay	Backlight	Slidebar Enable
Right Blanking	Ten Bit Processing	Lamp Conditioning	Screen Orientation	Error Message Enable
Plug & Display Modes	Output Resolution	Lamp Orientation	Keystone	Menu Font
Contrast	Output Format	Red Black Level	2D Keystone H Offset	Lamp Message Enable
Brightness	DHDM Loop Thru Setting	Green Black Level	Auto Power Up	Keypad Enable
Base Gamma Curve	DHDM Dual Link Format	Blue Black Level	Language	Output Color Default

Preference	Preference	Preference	Preference	Preference
Color	Frame Lock Enable	Red Drive	Source Dialog Enable	2D Keystone Throw Ratio
Tint	Splash Select	Green Drive	Slidebar Enable	Numbers Select Image
Detail	LiteLOC Calibration	Blue Drive	Error Message Enable	Splash Select
Input Filter	PIP Border Color	Auto Input Levels	Menu Location	Parameter Lockout
Copy Comprehensive CLR	Image Optimization	Clamping	Menu Shift Horizontal	2D Keystone V Offset
Interpolated Color	Numbers Select Image	Peak Detector	Menu Shift Vertical	Comprehensive Color Adj
Color Space	Aspect Ratio Overlay	Red Odd Offset	Menu Font	Gamma
Video Standard	Edge Blend Black Levels	Red Odd Gain	Time & Date	Warp Select
Chroma/Luma Delay	Intelligent Lens System	Green Odd Offset	XPort IP	2D Keystone H Offset
Video Black Level	Lens Calibrate	Green Odd Grain	Lens Vertical Offset	Output Format
Zoom	Automatic Gain Control	Blue Odd Offset	Lens Horizontal Offset	2D Keystone Center
Fade Time	Output Resolution	2D Keystone Zoom	General Input/ Output	PIP Border Color

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