

E Series

DHD675-E/DWU675-E/DHD775-E/DWU775-E

USER MANUAL

020-000515-01

CHRISTIE®

The CD included with this printed manual contains an electronic copy in English. Please read all instructions before using or servicing this product.

手册中包含的光盘，带有着中文的电子副本，使用或维修本产品前，请仔细查阅所有的指示。

Le DC fourni avec ce manuel imprimé contient une copie électronique en français. S'il vous plaît lire toutes les instructions avant d'utiliser ou de réparer ce produit.

Il CD fornito con il manuale stampato contiene una copia elettronica in lingua italiano. Si prega di leggere tutte le istruzioni prima di utilizzare o riparare questo prodotto.

この印刷されたマニュアルに同梱されております CD には、日本語での説明書が入っております。この製品を使用あるいは修理点検される際に、ご参照下さい。

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Поставляемый в комплекте с документацией компакт-диск (CD) содержит электронную копию руководства пользователя на русском языке. Перед началом использования изделия или проведения сервиса пожалуйста прочтите все инструкции изложенные в руководстве.

El DC incluido con este manual impreso contiene una copia electrónica en español. Por favor, lea todas las instrucciones antes de usar o dar servicio a este producto.

NOTICES

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REGULATORY

The product has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a commercial environment. The product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the product in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the user's own expense.

WARNING! Changes or modifications not expressly approved by Christie could void the user's authority to operate the product.

FOR COMMERCIAL USE ONLY - POUR USAGE COMMERCIAL UNIQUEMENT

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING 2 CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING ANY INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

THIS CLASS A DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

CET APPAREIL NUMÉRIQUE DE CLASSE A EST CONFORME AUX NORMES DÉFINIES DANS LES RÉGLEMENTATIONS CANADIENNES SUR LES APPAREILS CAUSANT DES INTERFÉRENCES RADIO (CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS, ICES-003, CLASS A).

声明 此为 A 级产品，在生活环境中，该产品可能会造成无线干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

이 기기는 업무용 (A 급) 으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이점을 주의하시기 바라며, 가정 외의 지역에서 사용하는 것을 목적으로 합니다.

GENERAL

Every effort has been made to ensure accuracy, however in some cases changes in the products or availability could occur which may not be reflected in this document. Christie reserves the right to make changes to specifications at any time without notice. Performance specifications are typical, but may vary depending on conditions beyond Christie's control such as maintenance of the product in proper working conditions. Performance specifications are based on information available at the time of printing. Christie makes no warranty of any kind with regard to this material, including, but not limited to, implied warranties of fitness for a particular purpose. Christie will not be liable for errors contained herein or for incidental or consequential damages in connection with the performance or use of this material.

The product is designed and manufactured with high-quality materials and components that can be recycled and reused. This symbol  means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from regular waste. Please dispose of the product appropriately and according to local regulations. In the European Union, there are separate collection systems for used electrical and electronic products. Please help us to conserve the environment we live in!

Canadian manufacturing facility is ISO 9001 and 14001 certified.

GENERAL WARRANTY STATEMENTS

For complete information about Christie's limited warranty, please contact your Christie dealer. In addition to the other limitations that may be specified in Christie's limited warranty, the warranty does not cover:

- a. Damage occurring during shipment, in either direction.
- b. Projector lamps (See Christie's separate lamp program policy).
- c. Damage caused by use of a projector lamp beyond the recommended lamp life, or use of a lamp supplied by a supplier other than Christie.
- d. Problems caused by combination of the product with non-Christie equipment, such as distribution systems, cameras, video tape recorders, etc., or use of the product with any non-Christie interface device.
- e. Damage caused by misuse, improper power source, accident, fire, flood, lightening, earthquake or other natural disaster.
- f. Damage caused by improper installation/alignment, or by product modification, if by other than a Christie authorized repair service provider.
- g. For LCD projectors, the warranty period specified applies only where the LCD projector is in "normal use." "Normal use" means the LCD projector is not used more than 8 hours a day, 5 days a week. For any LCD projector where "normal use" is exceeded, warranty coverage under this warranty terminates after 6000 hours of operation.
- h. Failure due to normal wear and tear.

PREVENTATIVE MAINTENANCE

Preventative maintenance is an important part of the continued and proper operation of your product. Please see the Maintenance section for specific maintenance items as they relate to your product. Failure to perform maintenance as required, and in accordance with the maintenance schedule specified by Christie, will void the warranty.

1. SAFETY	
2. INTRODUCTION	
2.1 Projector Components	2-1
2.2 Built-in Keypad	2-3
2.3 Input/Output (I/O) Panel	2-4
2.4 Remote Control	2-5
2.5 LED Status Indicators	2-7
3. INSTALLATION	
3.1 Connect to Computer	3-1
3.2 Connect to Video Equipment	3-2
3.3 Turn the Projector On	3-3
3.4 Turn the Projector Off	3-3
3.5 Adjust the Projector Position	3-4
3.6 Calculate Lens Offset	3-5
3.7 Removing and Installing the Lens	3-9
3.8 Ceiling Mount Installation	3-10
3.9 Stacking Installation	3-11
3.9.1 Adapter Plate Installation	3-11
3.9.2 Stacking	3-11
3.9.3 Stacking Multiple Projectors	3-12
3.9.4 Stacking Alignment	3-13
4. OPERATION	
4.1 Size and Position Menu	4-2
4.2 Image Settings Menu	4-7
4.3 Configuration Menu	4-10
4.4 Lamp Menu	4-16
4.5 Status Menu	4-18
4.6 Input Switching & PIP Menu	4-19
4.7 Language Menu	4-21
4.8 Test Pattern Menu	4-21
4.9 Web User Interface	4-22
4.9.1 Logging On	4-22
4.9.2 Main Tabbed Page – General	4-22
4.9.3 Main Tabbed Page – Status	4-23
4.9.4 Main Tabbed Page – Lens	4-23
4.9.5 Network	4-24
4.9.6 Tools	4-26
4.9.7 Administrator Page	4-27
4.9.8 About Page	4-27
4.10 Christie Presenter	4-28
4.10.1 Connect to the Projector and Download Christie Presenter Software	4-28
4.10.2 Install Christie Presenter software	4-30
4.10.3 Use Christie Presenter	4-31
4.11 Card Reader Operation	4-36
4.12 Install the Lamp	4-40

5. TROUBLESHOOTING

6. SPECIFICATIONS

6.1	Inputs	6-1
6.2	PIP/PBP Compatibility	6-2
6.3	Key Features	6-3
6.4	List of Components.....	6-4
6.5	Optional Accessories	6-4
6.6	REGULATORY	6-5
6.7	Declaration of Conformity for EU Countries	6-7
6.8	Federal Communications Commission (FCC) Warning.....	6-7
6.9	MENU TREE.....	6-8

1. SAFETY

Read through this document in its entirety and understand all warnings and precautions before attempting to operate the projector.

⚠ WARNING

- Do not look into the projector lens when the lamp is on. The bright light may result in permanent eye damage.
- To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture.
- Do not open or disassemble the projector as this may cause electric shock.
- When replacing the lamp, allow the projector to cool, and follow all replacement instructions.
- When you turn the projector off, wait 90 seconds for the projector to cool down before you disconnect the projector from power.
- Cooling the lamp during the ignition phase may lead to ignition failures. After a successful lamp ignition, keep the lamp burning for at least 15 minutes to maintain lamp life.
- When the lamp is approaching the end of its life, the message “Lamp is approaching the end of its useful life in full power operation” appears on the screen. Change the lamp when the warning message appears.
- All installation and maintenance procedures must be performed by a Christie accredited service technician.
- Keep all combustible material away from the concentrated light beam of the projector.
- Position all cables where they cannot contact hot surfaces or be pulled or tripped over.

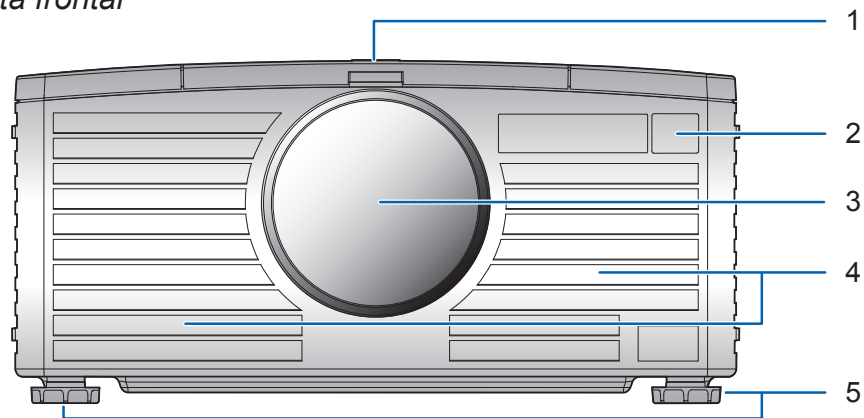
- Always power down the projector and disconnect all power sources before servicing or cleaning.
- Use a soft cloth moistened with a mild detergent to clean the display housing.
- Disconnect the power plug from the AC outlet if the product is not being used for an extended period of time.
- Operate the projector under the following conditions:
 - Operating temperature range: 5°C to 35°C
 - Storage temperature range: -10°C to 60°C
 - Humidity range: 5% to 80 % RH (Max.), non condensing
 - Operating altitude: 10,000 ft. maximum
- Use only the AC power cord supplied. Do not attempt operation if the AC supply and cord are not within the specified voltage and power range for your region.
- Remove the lens plug from the lens opening in the projector before installing the lens. Retain the lens plug to protect the optical components from dust and debris during transport.
- Do not block the ventilation slots and openings on the projector.
- Do not use abrasive cleaners, waxes or solvents to clean the projector.
- Do not allow anything to rest on the power cord.

2. INTRODUCTION

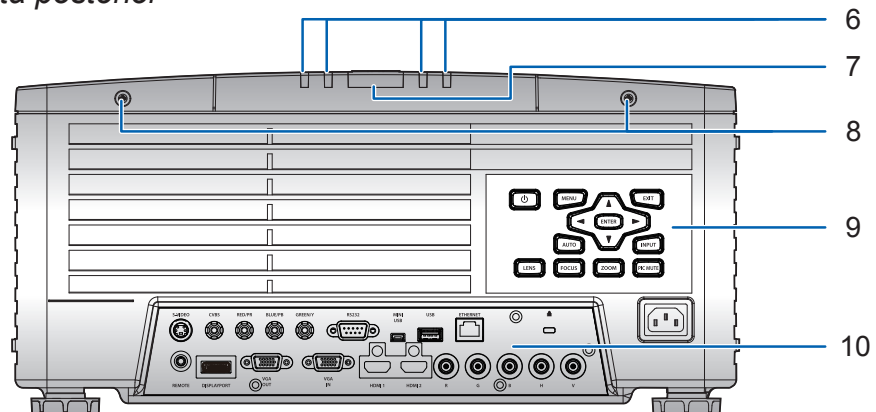
The product specified in this document is a high brightness, high-resolution video/graphics 1-chip mercury lamp based projector. The projector is available in HD and WUXGA resolutions. The projector utilizes Digital Light Processing (DLP®) technology from Texas Instruments. It is primarily designed for fixed installation markets.

2.1 Projector Components

Vista frontal

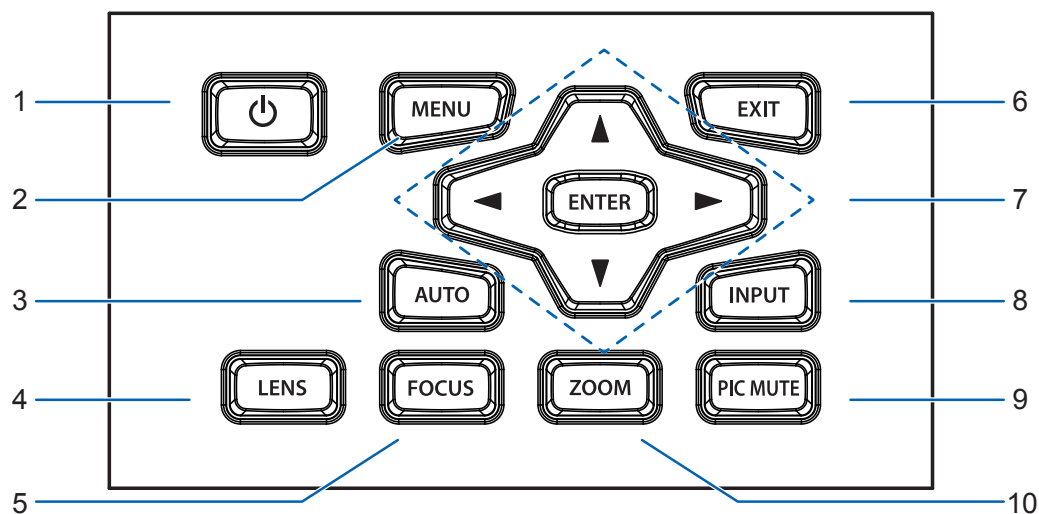


Vista posterior



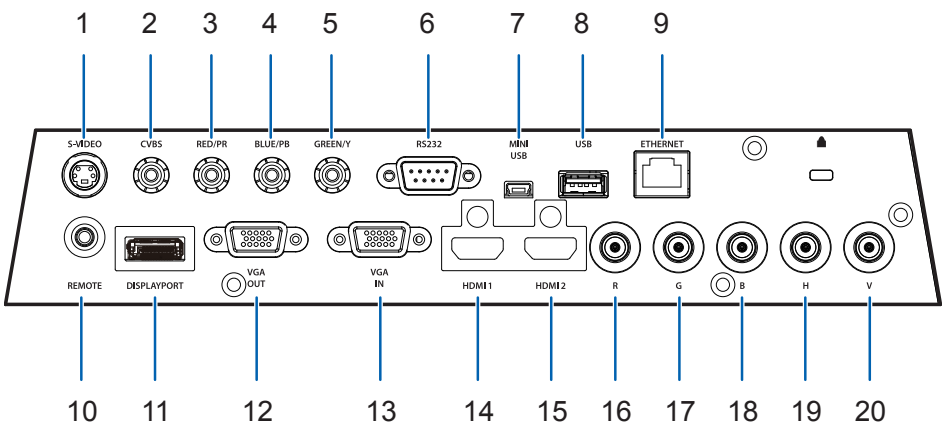
Ind.	Part Name	Description
1	Lens door	Use the lens door to access the lens module.
2	Front IR Sensor	Receives signals from the IR remote. Keep the signal path to the sensor unobstructed for uninterrupted communication with the projector.
3	Projection Lens	Allows automated lens control and adjustment: vertical and horizontal offsets, zoom and focus.
4	Cooling Air Vents	Keep these vents unobstructed to prevent the projector from overheating.
5	Adjustable Feet	Raise or lower the feet to level the projector.
6	LED Status Indicators	Displays the status of the projector. They are (from left to right): LAMP 1, LAMP 2, STATUS and PIC MUTE.
7	Rear IR Sensor	Receives signals from the IR remote. Keep the signal path to the sensor unobstructed for uninterrupted communication with the projector.
8	Lamp Door (Screws)	Use the lamp to access to the lamp module.
9	Built-in Keypad	Controls the projector.
10	Input/Output (I/O) Panel	Connects the projector to external devices.

2.2 Built-in Keypad



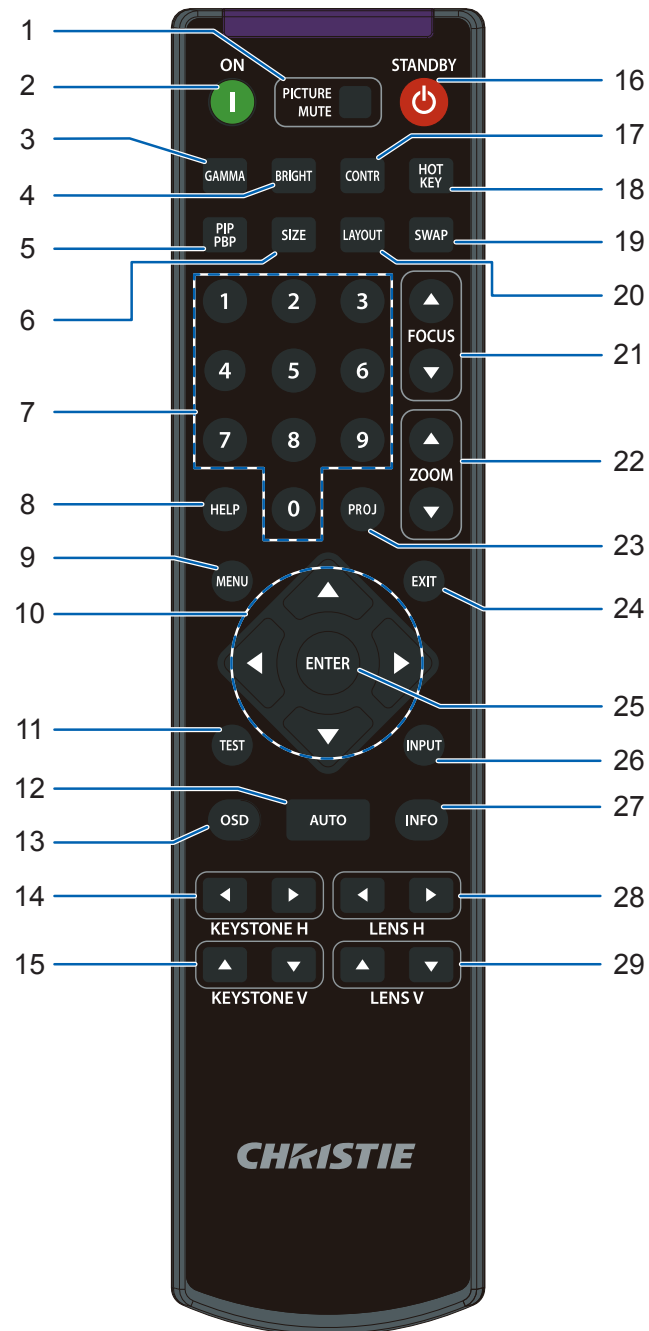
Ind.	Key Name	Description
1	Power	Turn the projector on or off.
2	Menu	Display menus
3	Auto	Automatically optimize image
4	Lens	Adjust the lens vertical or horizontal offset setting
5	Focus	Adjust focus
6	Exit	Return to previous level or exit menus if at top level
7	Arrow Keys	- Adjust a setting UP or DOWN - Navigate within a menu
8	Input	Select an input for the main or PIP/PBP image
9	Picture Mute	Display or blank the video image
10	Zoom	Adjust zoom

2.3 Input/Output (I/O) Panel



Ind.	Connector Name	Ind.	Connector Name	Ind.	Connector Name
1	S-Video	2	CVBS	3	Red/Pr
4	Blue/Pb	5	Green/Y	6	RS232 IN
7	Mini USB	8	USB	9	Ethernet
10	Remote	11	Display Port	12	VGA-OUT
13	VGA-IN	14	HDMI-1	15	HDMI-2
16	R	17	G	18	B
19	H/C	20	V		

2.4 Remote Control



Ind.	Key Name	Description
1	Picture Mute	Display or blank the video image
2	Power on	Turn projector ON
3	Gamma	Adjust mid-range levels
4	Bright	Adjust amount of light in the image
5	PIP/PBP	Turn PIP/PBP ON/OFF
6	Size	Adjust the PIP/PBP size
7	Number Keys	Enter a number, such as a channel, value, etc
8	Help	Display context-sensitive help
9	Menu	Display menus
10	Arrow Keys	- Adjust a setting UP or DOWN - Navigate within a menu
11	Test	Display a test pattern
12	Auto	Automatically optimize image
13	OSD	Use to hide or show menus
14	Keystone H	Adjust the horizontal keystone
15	Keystone V	Adjust the vertical keystone
16	Standby	Turn projector OFF
17	Contrast	Adjust difference between dark and light
18	Hot-key	Select your preset keys quickly
19	Swap	Swap the main and PIP/PBP images
20	Layout	Adjust the PIP/PBP layout
21	Focus	Adjust focus to improve image clarity as desired
22	Zoom	Adjust zoom to achieve a desired image size
23	Proj Key	Change the remote ID. Press Proj Key then a number between 1 and 9 to assign an ID. Press PROJ then number 0 to return to the universal remote ID.
24	Exit	Return to previous level or exit menus if at top level
25	Enter	- Select a highlighted menu item - Change or accept a value
26	Input	Select an input for the main or PIP/PBP image
27	Info	Display source image information
28	Lens H	Horizontal Lens Shift - Adjust the position of the image horizontally
29	Lens V	Vertical Lens Shift - Adjust the position of the image vertically

2.5 LED Status Indicators

The LED status indicators are located on the rear of the projector.

- LAMP 1 LED

LED Status	Projector State
Red (short blink)	Failed to strike lamp after 5 attempts (strike attempts will stop). Lamp has unexpectedly shut down (system goes into cool down state).
Yellow (no blink)	Lamp time has expired and lamp should be replaced. (projector also begins to display the replace lamp On Screen Display message at startup).
Green (no blink)	Lamp 1 turn ON ok
Green (short blink)	Projector is switching to Lamp 1 (Lamp 2 is off) (selected by OSD menu "Current Lamp": 1/ 2/ Both)
Off	Lamp is off

- LAMP 2 LED

LED Status	Projector State
Red (short blink)	Failed to strike lamp after 5 attempts (strike attempts will stop). Lamp has unexpectedly shut down (system goes into cool down state).
Yellow (no blink)	Lamp time has expired and lamp should be replaced. (projector also begins to display the replace lamp OSD message at startup).
Green (no blink)	Lamp 2 turn ON ok
Green (short blink)	Projector is switching to Lamp 2 (Lamp 1 is off) (selected by OSD menu "Current Lamp": 1/ 2/ Both)
Off	Lamp is off

- STATUS LED

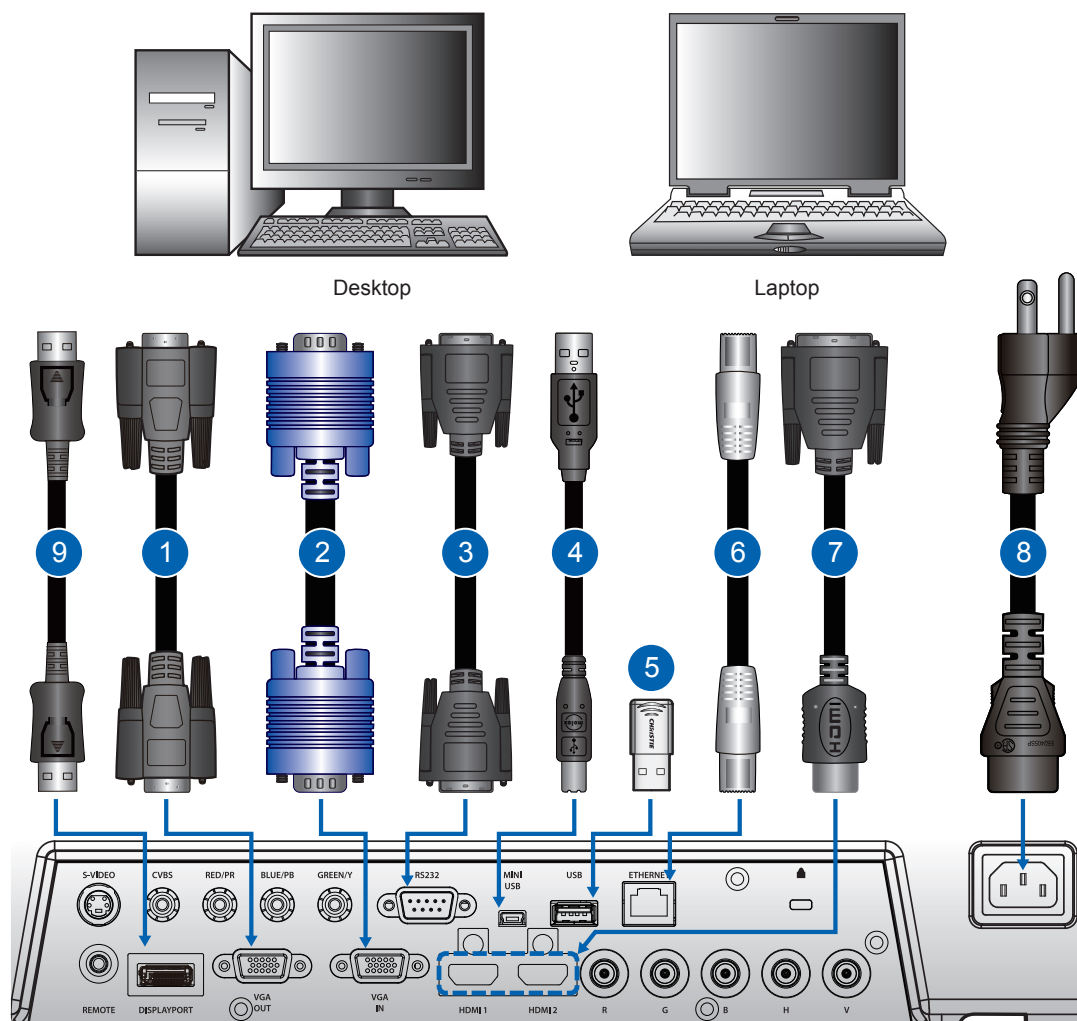
LED Status	Projector State
Off	Projector is in OFF state (without AC plug in)
Yellow (no blink)	Projector is in standby mode (AC plug in)
Yellow long blink	Projector is in startup state
Yellow long blink	Projector is in cool down state
Flashing Green/ Yellow	Projector is in flash update state
Flashing Red	Fan failure
Red (no blink)	Over-temperature
Green (blink very quickly)	Projector communications (Read/Write EEPROM)
Green (no blink)	Projector is powered up and operating normally

- PICTURE MUTE LED

LED Status	Projector State
Green	Picture mute is off – image is displayed
Yellow (no blink)	Picture mute is on – image is black

3. INSTALLATION

3.1 Connect to Computer

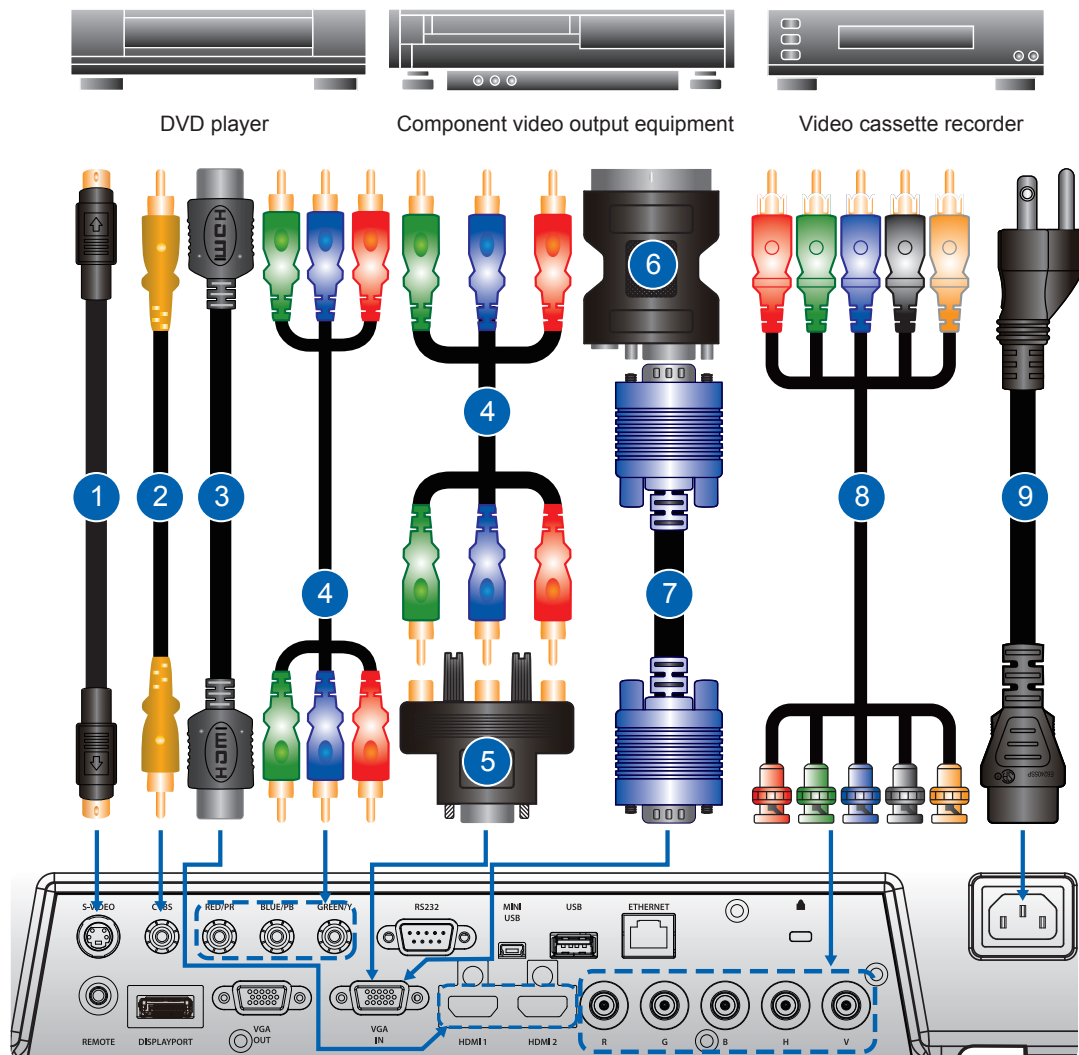


Ind.	Connector Name	Ind.	Connector Name	Ind.	Connector Name
1	VGA out Cable	2	VGA in Cable	3	RS232 Cable
4	Mini USB to USB A Type Cable	5	WiFi USB Dongle or thumb drive	6	Network Cable
7	HDMI to DVI Cable	8	Power Cord	9	Displayport Cable

NOTE:

- ❖ The diagram shows the cables/connectors that may be used to connect to various devices.
- ❖ Due to the difference in applications for each country, the accessories required in some regions may be different from those shown.
- ❖ This diagram is for illustrative purposes only, and does NOT indicate that these accessories are supplied with the projector.

3.2 Connect to Video Equipment



Ind.	Connector Name	Ind.	Connector Name	Ind.	Connector Name
1	S-Video Cable	2	Composite Video Cable	3	HDMI Cable
4	3 RCA Component Cable	5	15-Pin to 3 RCA Component/HDTV Adaptor	6	VGA to RGB SCART
7	VGA in Cable	8	RCA-BNC Cable	9	Power Cord

NOTE:

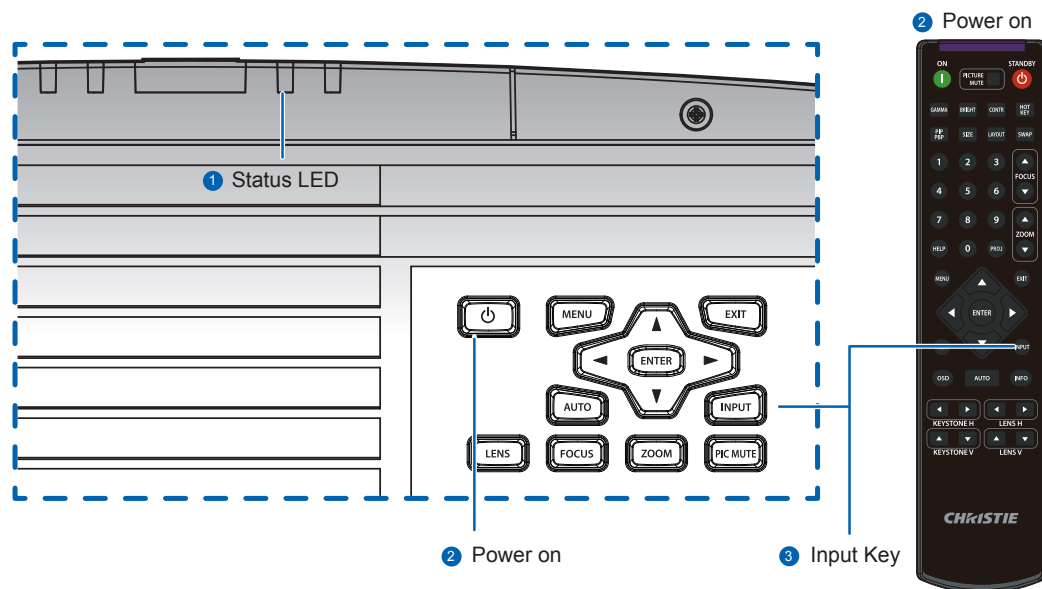
- ❖ The diagram shows the cables/connectors that may be used to connect to various devices.
- ❖ Due to the difference in applications for each country, the accessories required in some regions may be different from those shown.
- ❖ This diagram is for illustrative purposes only, and does NOT indicate that these accessories are supplied with the projector.

3.3 Turn the Projector On

1. Ensure that the power cord and signal cable are securely connected. The Power button on the built in keypad is illuminated. ❶
2. Turn on the lamp by pressing “” on the remote control or press “” on the built-in keypad. ❷ The STATUS LED is yellow and LAMP LED is green with a long blink.
The startup screen displays in approximately 10 seconds.
3. Turn on the source. Select Input Key on the remote control to select an input source (VGA, BNC, HDMI1, HDMI2, Component, S-Video or Composite Video). ❸
4. The projector detects the source you selected and displays the image.

NOTE:

- ❖ The first time the projector is used, the preferred language may be selected from the main menu after the startup screen is displayed.



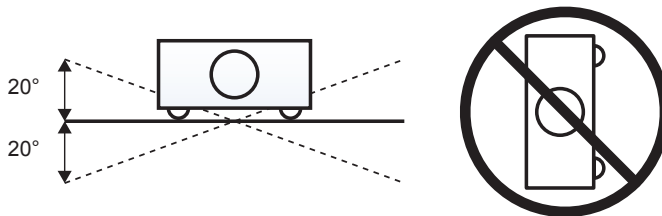
3.4 Turn the Projector Off

1. Press “” on the built-in keypad or on the remote control to turn off the projector. A warning message will appear on the displayed image.
2. Press “” again to confirm your selection. If you do not press “” again, the warning message will disappear after 10 seconds.

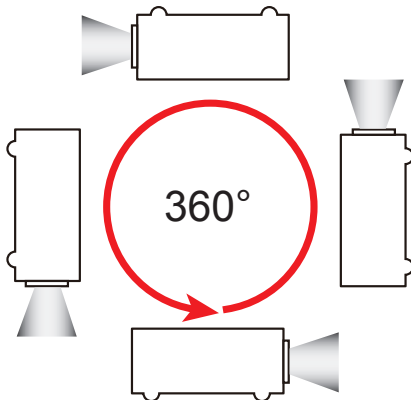
3.5 Adjust the Projector Position

When you select a position for the projector, consider the size and shape of your screen, the location of your power outlets, and the distance between the projector and the rest of your equipment. Follow these general guidelines:

- Position the projector on a flat surface at a right angle to the screen. The projector (with the standard lens) must be at least 3 feet (0.9m) from the projection screen.
- Position the projector to the desired distance from the screen. The distance from the lens of the projector to the screen, the zoom setting, and the video format determine the size of the projected image.
- For the fixed short lens, the image exits at a default angle. However, the lens shift feature makes the image offset variable.
- Lens throw ratio:
 - Lens 0.8:1 Fixed Short (Zero offset)
 - Lens 1.2-1.5:1 Fixed Short
 - Lens 1.5-2.0:1 Zoom
 - Lens 2.0-4.0:1 Zoom
 - Lens 4.0-7.0:1 Long Zoom
- Do not roll the projector more than 20 degrees from side to side.
- Do not put the projector on either side to project an image.



- 360 degree operation (alone the widest axis)



3.6 Calculate Lens Offset

- The vertical image offset (shift) ranges for the projector are +120%/-40% (WUXGA) and +134%/-40% (HD). Offset is +720 pixels for both WUXGA and HD. The horizontal image offset is +/-20% (+/- 192 pixels).

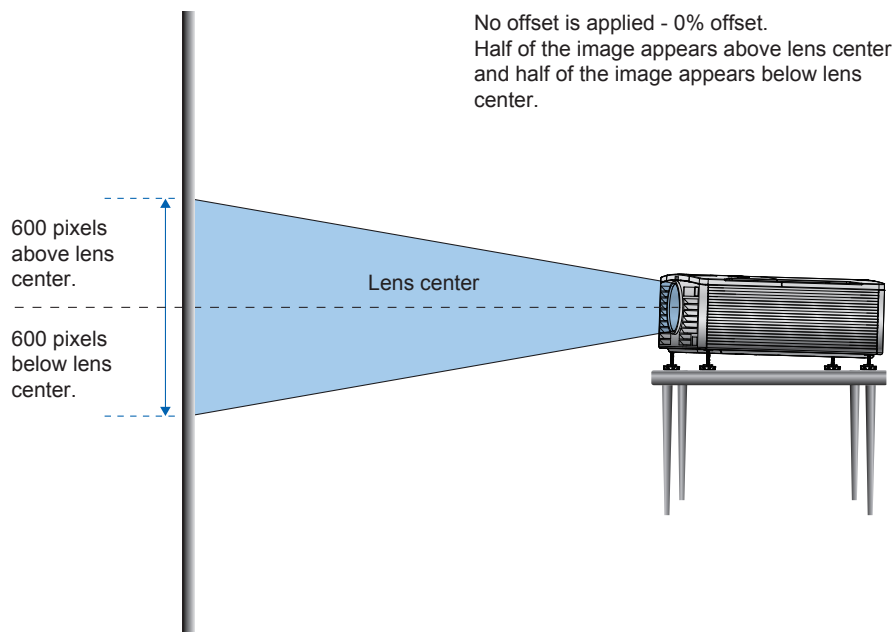
NOTE:

❖ The 0.8:1 lens is the only exception and must be used on axis.

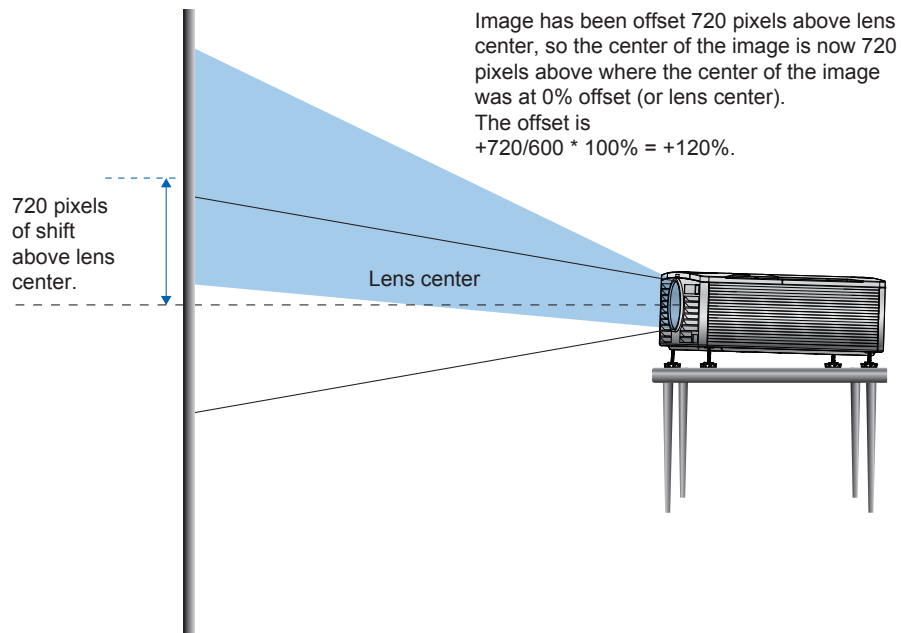
- The method for calculating lens offset complies with Industry standards.
Example for Vertical lens offset:
 - At 0% offset (or on axis), the center of the image is on the lens center, so that half of the image appears above and half appears below the lens center.
 - At +100% offset, all (or 100%) of the image will appear above the lens center.
 - The % offset is calculated as the ratio of the number of pixels shifted up/down to half the image size. Examples for WUXGA:
 - ▶ Shifting up 600 pixels gives offset of $600/600 * 100\% = 100\%$
 - ▶ Shifting down 600 pixels gives offset of $-600/600 * 100\% = -100\%$
 - ▶ Shifting up 720 pixels gives offset of $720/600 * 100\% = 120\%$
 - ▶ Shifting up 240 pixels gives offset of $240/600 * 100\% = 40\%$

WUXGA Projectors:

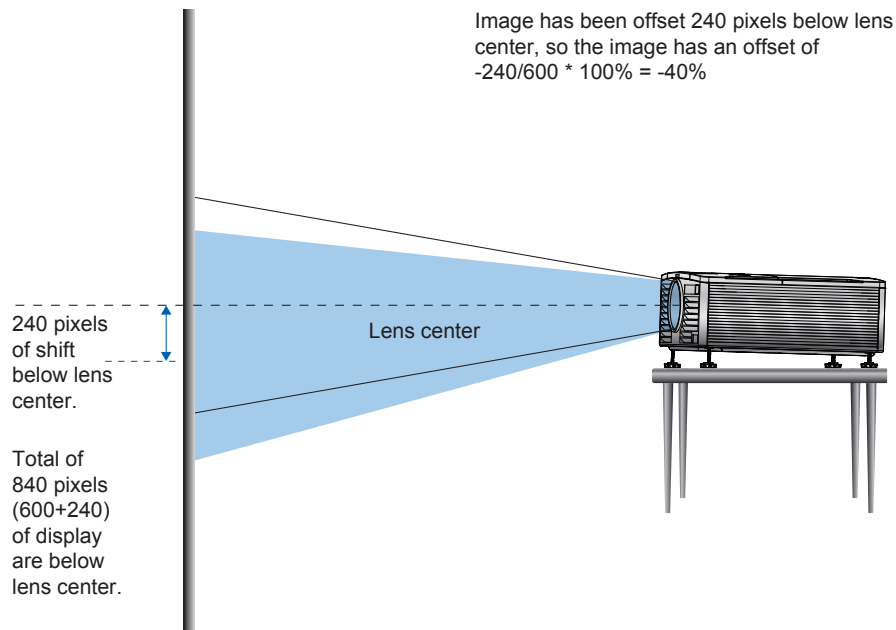
Vertical Image Offset: 0% Offset (WUXGA)



Vertical Image Offset: 120% Offset (WUXGA)

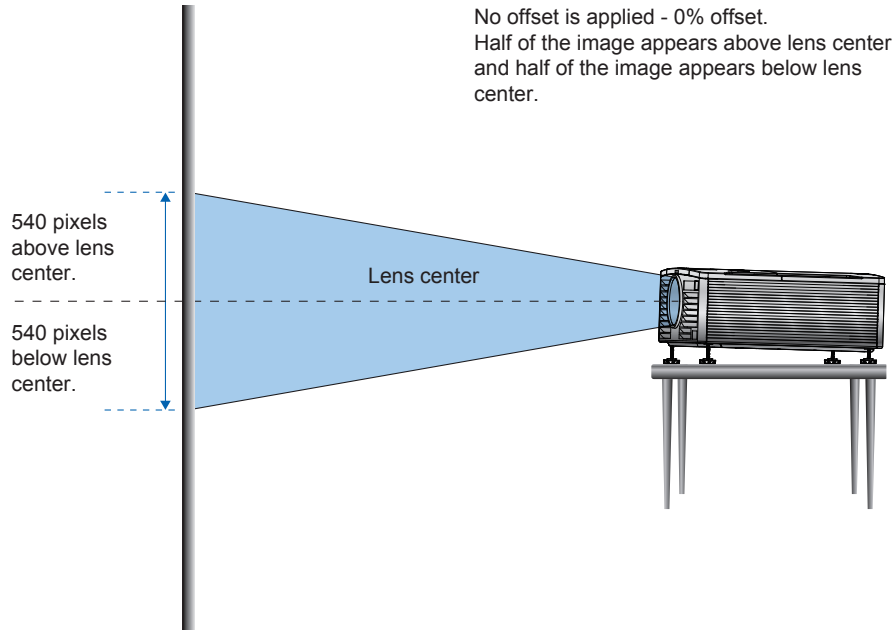


Vertical Image Offset: -40% Offset (WUXGA)

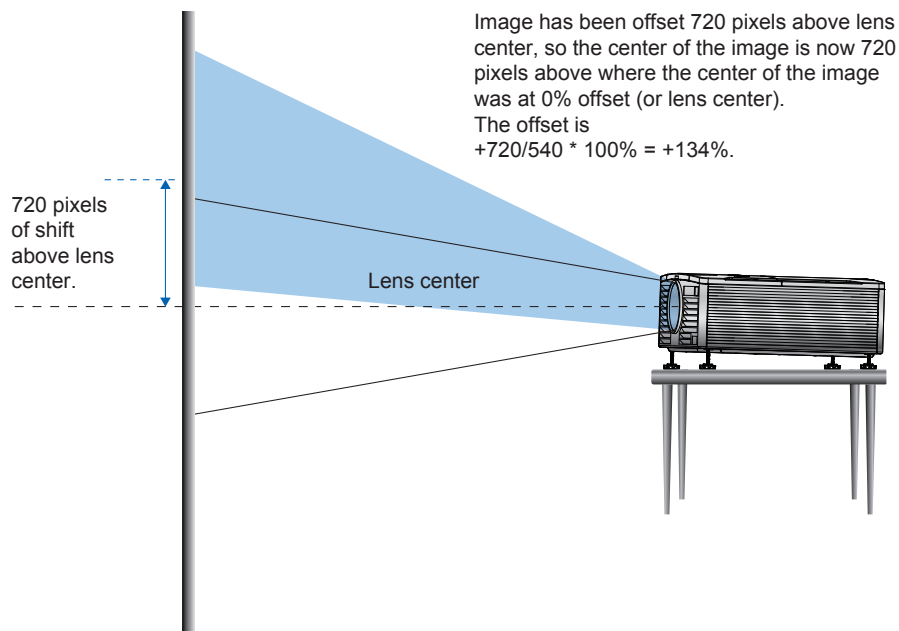


HD Projectors:

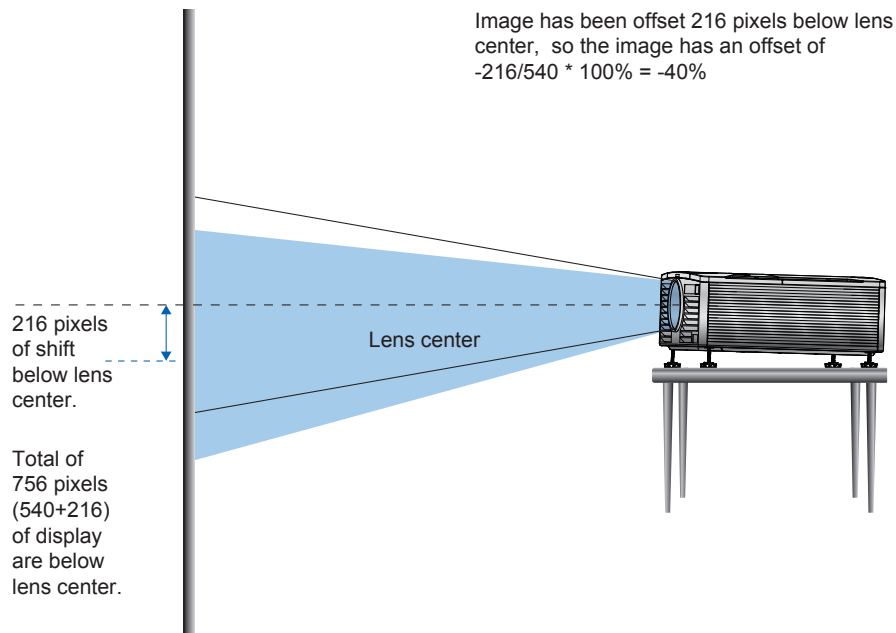
Vertical Image Offset: 0% Offset (HD)



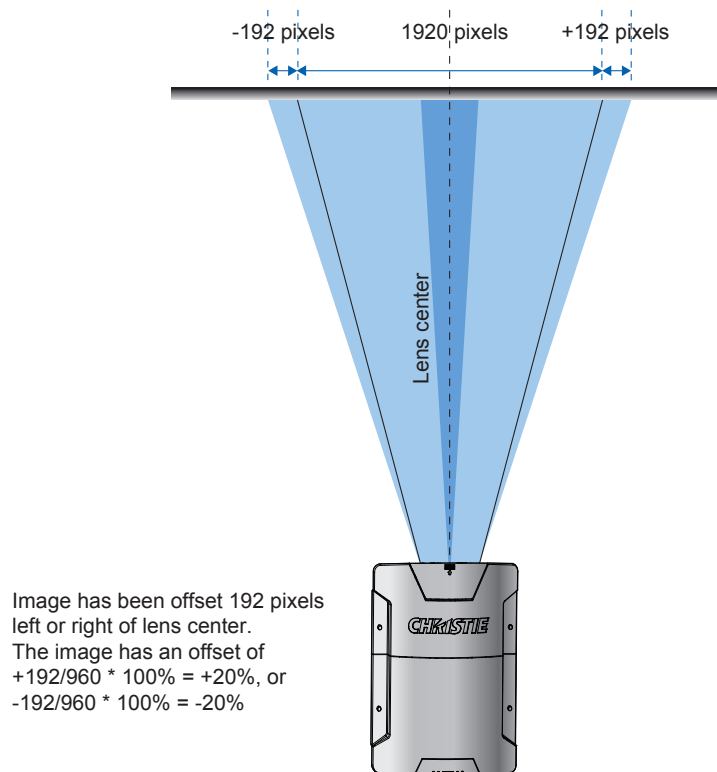
Vertical Image Offset: 134% Offset (HD)



Vertical Image Offset: -40% Offset (HD)



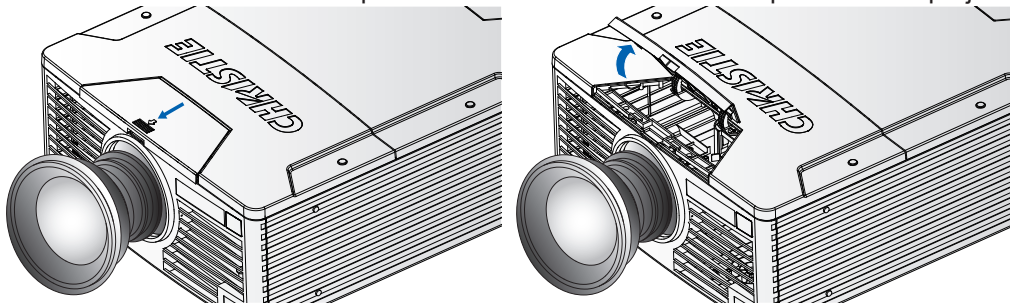
Horizontal Image Offset: +/-20% Offset



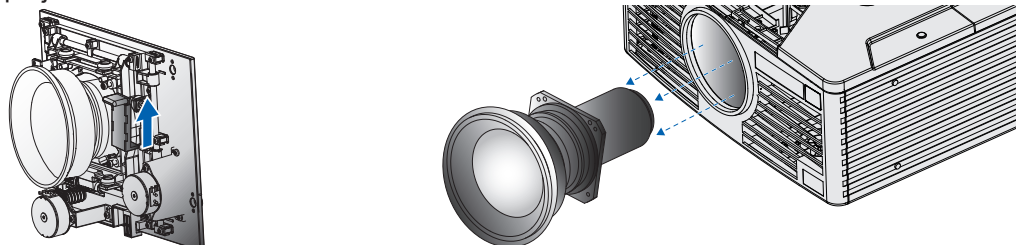
3.7 Removing and Installing the Lens

When handling the projector after lens installation, make sure the front lens cap is placed on the lens to protect the lens surface from potential damage. When carrying or moving the projector, do not handle by the lens. This may damage the lens, the chassis or other mechanical parts within the projector.

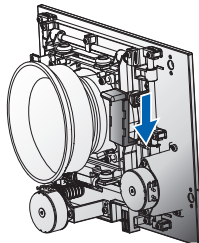
1. **Center the lens:** Ensure that the lens is at or near its center position. Attempting to remove the lens when at a large offset may cause damage to the lens assembly. Center the lens while the projector is switched on by pressing the lens horizontal or vertical button and then pressing Enter.
2. **Turn Off the projector:** Turn the projector OFF and disconnect the power cord.
3. Allow the projector to cool down to Standby mode before replacing the lens.
4. **Remove the lens:** Push and open the lens door located on the top-front of the projector.



5. Push the release lever up to release the lock. Remove the lens through the front of the projector.



6. Remove the rear lens cap from the lens. Keep the front lens cap on the lens to protect it during installation.
7. **Install the new lens:** Align the lens interface plate with the lens mount. Fully insert the assembly straight into the lens mount without turning. Push the release lever down to lock the lens in place.



8. Lower the Lens Door and slide back into the secured position.

3.8 Ceiling Mount Installation

The projector can be inverted and suspended from the ceiling using a specially designed ceiling mount fixture. For more information, contact your dealer.

- Use only the Christie approved ceiling mount kit (133-106108-02) designed for your projector.
- When not mounted properly, the projector may fall, causing hazards or injury. The warranty on this projector does not cover any damage caused by the use of any non-recommended ceiling mount kit or installation of the ceiling mount kit in an improper location.
- Refer to the installation instructions and safety guidelines provided in the kit.

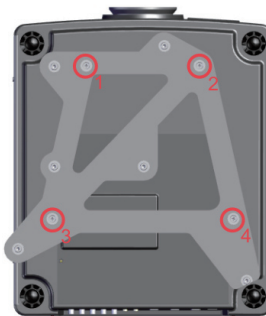
3.9 Stacking Installation

3.9.1 Adapter Plate Installation

When stacking E Series projectors, an adapter plate is required to install the E Series unit into the stacking frame.

1. Turn the projector OFF and disconnect the AC power cord after the cooling fans have stopped.
2. Place the projector top-side down on a clean and flat surface.
3. Line up the mounting holes of the adapter plate (133-107109-02) with the mounting holes on the baseplate of the projector.
4. Secure the adapter plate with 4 M6x25 flathead screws. Torque to 41 in-lb.

Adapter Plate Attachments



Bottom View

Mounting

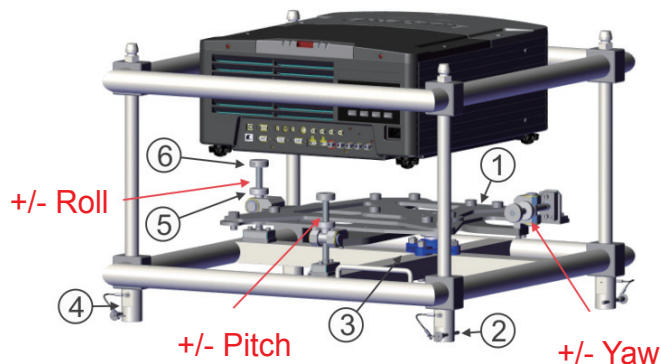
All attachment points to be secured

3.9.2 Stacking

The E Series projectors can be stacked up to a maximum of 3 projectors high using the Christie stacking frame (118-100107-01).

Description

- 1) Base Plate
- 2) Locking pin
- 3) Cable Tie-off Frame
- 4) Stacking Leg
- 5) Locking Nut
- 6) Knob

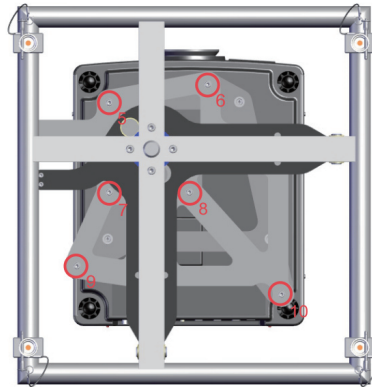


Frame Weight	= 50 lbs (22.68 kg)
Adapter Plate Weight	= 3.26 lbs (1.48 kg)
Projector Weight	= 43 lbs (19.50 kg)
Lens Weight (up to)	= 5.43 lbs (2.46 kg)
Up to	= 101.69 lbs (46.12 kg)
(per projector and frame)	

Install the adapter plate on the E Series projector (described in 3.9.1) before mounting to the stacking frame.

1. Make sure the pitch is to its maximum, prior to placing the projector from the front.
2. Place the projector into the stacking frame.
NOTE: There are two ways of placing the projector into the stacking frame: from the top or from the front.
3. Make sure the bottom base plate of the frame is aligned with the projector.
4. Use a 6 mm Allen key to tighten the (6) M8 bolts securing the base plate to the bottom of the stacker adapter plate.

Stacking Frame Attachments

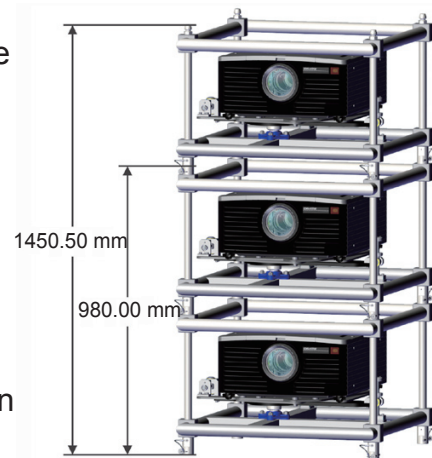


3.9.3 Stacking Multiple Projectors

NOTE: The projectors can be stacked and hoisted in either an upright or inverted positions.

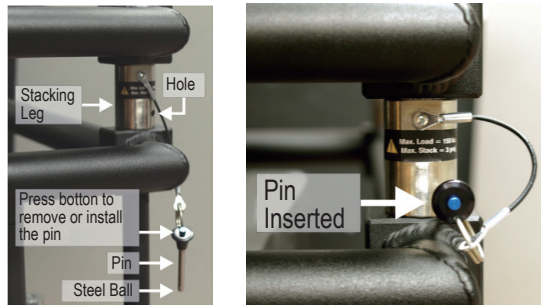
1. With one person positioned on each side of the stacking frame, lift the top stacking frame onto the bottom stacking frame, aligning all four stacking legs between the frames.
❖ *NOTE: Remove the locking pin from each stacking leg prior to alignment and ensure the four stacking legs are fully seated on the lower stacking frame.*

⚠ DANGER Step 2 is a critical safety procedure that **MUST** be observed. Failure to engage the locking pin may cause the projectors to separate, resulting in possible injury or death.



2. Insert the locking pin through the holes in the stacking legs. Make sure each pin is fully inserted.

❖ **NOTE:** The steel ball on the end of the pin keeps the pin from releasing inadvertently.

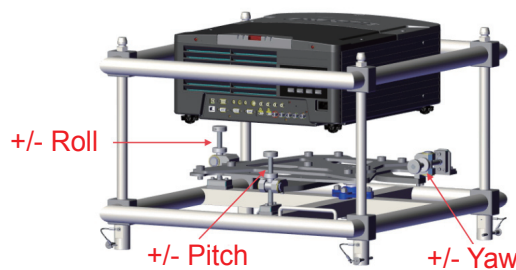


3. When required, repeat steps 1 and 2 for the third projector in the stack.

3.9.4 Stacking Alignment

Stacked projectors must be correctly aligned to one another so the resulting display is optimized. If hoisting the stack, do so first and then align. To align the image, use pitch, yaw, or roll. Prior to aligning the image, turn the locking nut to unlock then use the knob to adjust the image.

❖ **NOTE:** Ensure to lock the locking nut to maintain the image adjustment.



Pitch

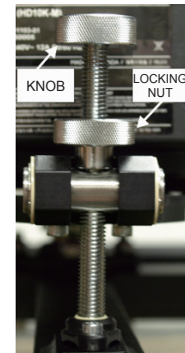
Adjustment moves the image up and down

Roll

Rotates the image clockwise and counter-clockwise

Pitch

Adjustment moves the image left and right

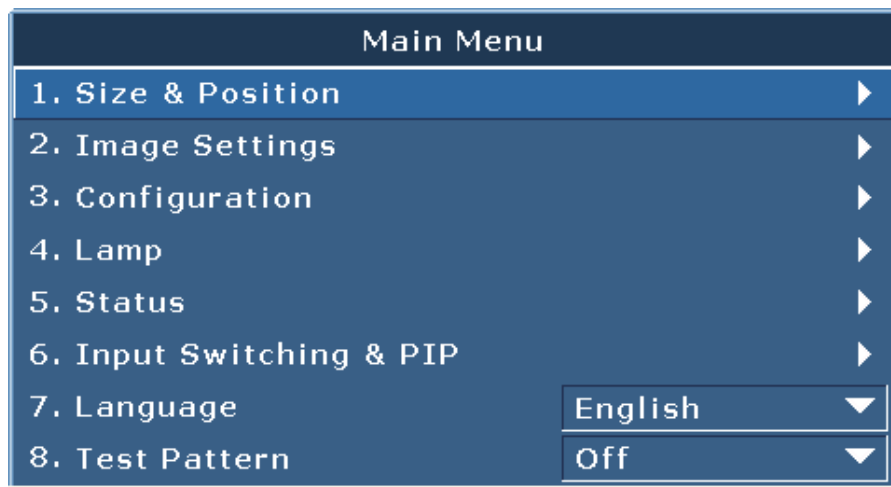


Note: If the projector is parallel to the screen, some keystone will be introduced with pitch and yaw adjustment.

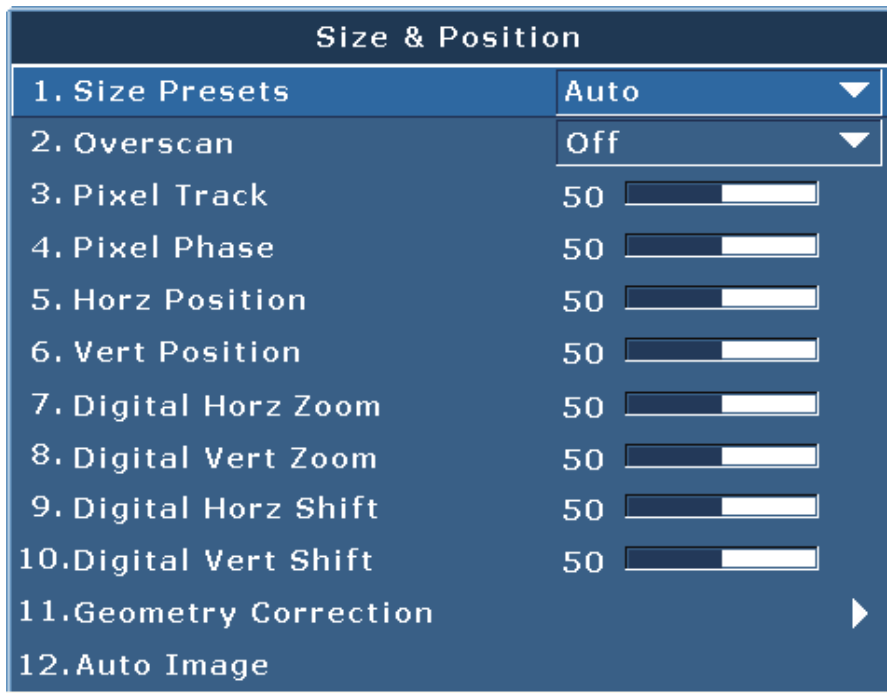
4. OPERATION

The projector has multilingual On-Screen Display (OSD) menus that allow you to make image adjustments and change a variety of settings.

- Most of the projector controls are accessed from within the projector menu system. There are several groups of related functions, with each group selectable from the Main menu as shown below. Press the MENU button on the remote control or on the built-in keypad on the rear of the projector to display the main menu.
- Use the arrow keys to navigate within the menu and adjust a setting up or down.
- Press ENTER to select a highlighted menu item or use it to change or accept a value.
- Select the next item that you want to adjust in the menu and adjust it as described above.
- Press EXIT to return to the previous menu or exit menus if at top level.



4.1 Size and Position Menu



Size Presets

Display an image with the detected size, or resize the image by maximizing either the height, width or both, or resize to the maximum size possible while keeping the original aspect ratio.

- Auto: Display with the detected size.
- Native: Display in its native resolution.
- 4:3: Retain 4:3 aspect ratio.
- Letterbox: Display with the black borders on the top and bottom.
- Full Size: Fill the screen (regardless of the source).
- Full Width: Fill display width and keep aspect ratio.
- Full Height: Fill display height and keep aspect ratio.

Overscan

Remove noise around the image. The ZOOM range can be from 50% to 400%

Pixel Track

Analog RGB signals only. Steady flickering or several soft vertical stripes or bands across the entire image indicates poor pixel tracking. Proper pixel tracking ensures that the image quality is consistent across the screen, the aspect ratio is maintained, and that the pixel phase can be optimized.

Pixel Phase

Analog RGB signals only. Adjust pixel phase when the image still shows shimmer or noise after pixel tracking is optimized. Pixel phase can adjust the phase of the pixel-sampling clock relative to the incoming signal.

Horz Position

Move the image right or left within the area of available pixels.

Vert Position

Move the image up or down within the area of available pixels.

Digital Horz Zoom

Change the size of projector's display area horizontally. If the display area has been resized by this setting, it can be moved by changing the Digital Horz Shift and Digital Vert Shift settings.

Digital Vert Zoom

Change the size of projector's display area vertically. If the display area has been resized by this setting, it can be moved by changing the Digital Horz Shift and Digital Vert Shift settings.

Digital Horz Shift

Move the display area horizontally if its size has been changed by the Digital Zoom setting.

Digital Vert Shift

Move the display area vertically if its size has been changed by the Digital Zoom setting.

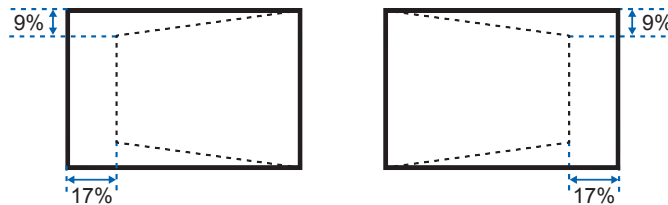
Geometry Correction

The "Geometry Correction" can be controlled with the options in the drop-down list: "Off/Basic" when optional Dual Processor Warp Module is not installed, and "Off/Basic/Curve/Rotate" when optional Dual Processor Warp Module is installed.

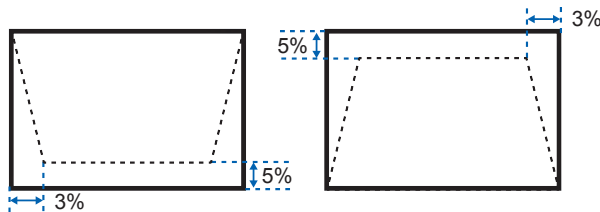
Geometry Correction Feature Compatibility

Warp Function	4-Corner	Curved Surface(2x2)	Keystone	Pincushion and Barrel	Rotation
4-Corner	--	✓	✓	✓	✓
Curved Surface(2x2)	✓	--	X	X	X
Keystone	✓	X	--	✓	X
Pincushion and Barrel	✓	X	✓	--	X
Rotation	✓	X	X	X	--

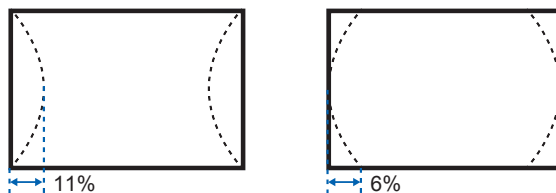
- Off: No Geometric correction is applied to the image.
- Horz Keystone: Adjust the keystone horizontally and make a more square image. Horizontal keystone is used to correct a keystoned image shape in which the left and right borders of the image are unequal in length, and the top and bottom are slanted to one of the sides. This is intended for use with horizontally on-axis applications. For horizontally offset applications, you must use 4 Corner correction using the optional Dual Processor Warp Module.



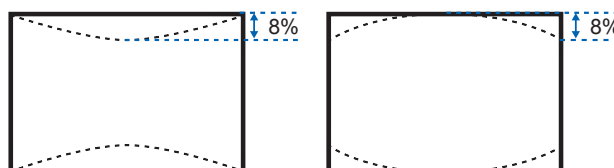
- Vert Keystone: Adjust the keystone vertically and make a more square image. Vertical keystone is used to correct a keystoned image shape in which the left and right borders of the image are unequal in length, and the top and bottom are slanted to one of the sides. This is intended for use with horizontally on-axis applications. For horizontally offset applications, you must use 4 Corner correction using the optional Dual Processor Warp Module.



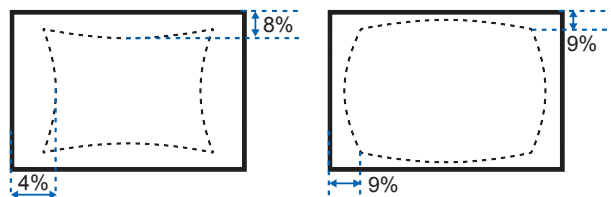
- Horz Pincushion: Adjust the pincushion horizontally and make a more square image.



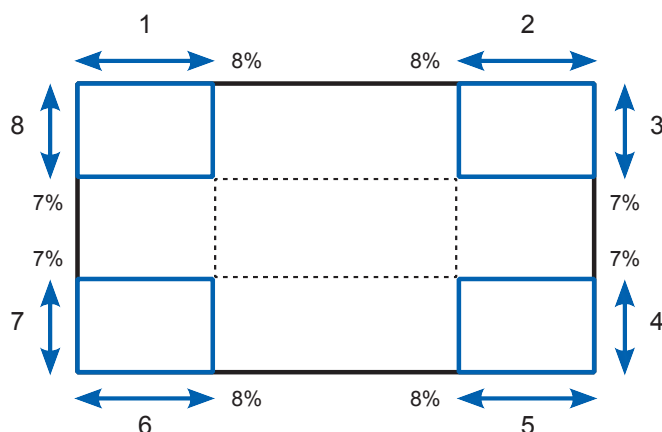
- Vert Pincushion: Adjust the pincushion vertically and make a more square image.



- Pincushion/Barrel: Allow for correction for slight curved distortion from the lens or projection surface.

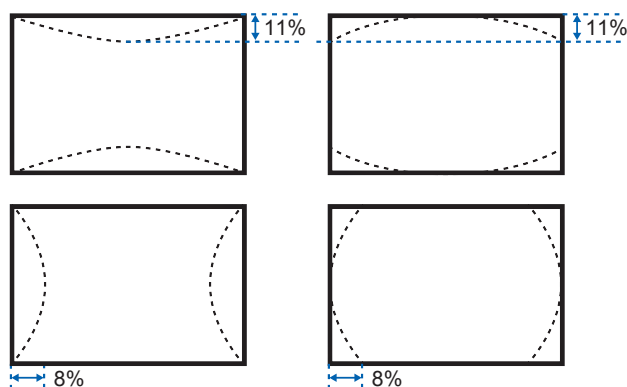


- 4-Corner: Allow the image to be squeezed to fit an area defined by moving each of the four corners' x and y position.

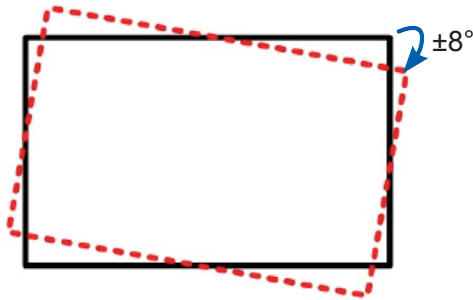


Ind.	Description
1	Top Left Horz adjust.
2	Top Right Horz adjust.
3	Top Right Vert adjust.
4	Bottom Right Vert adjust.
5	Bottom Right Horz adjust.
6	Bottom Left Horz adjust.
7	Bottom Left Vert adjust.
8	Top Left Vert adjust.

- Curve: Allow for symmetrical correction of a constant radius horizontal or vertical curve by modifying the top and bottom of the image only. Compound curves are not supported. Projector must be mounted perpendicular to the chord of the curve within the offset limitation of the lens used (ideally on axis). No tilt correction.



- Rotation: Allow an image to be rotated – most commonly to level the image. While the image is rotated, the software can crop any content that begins to fall off the panel. The function will not automatically scale the image down to prevent cropping. If scaling is required, the digital zoom function can be used, independently of the rotation function.

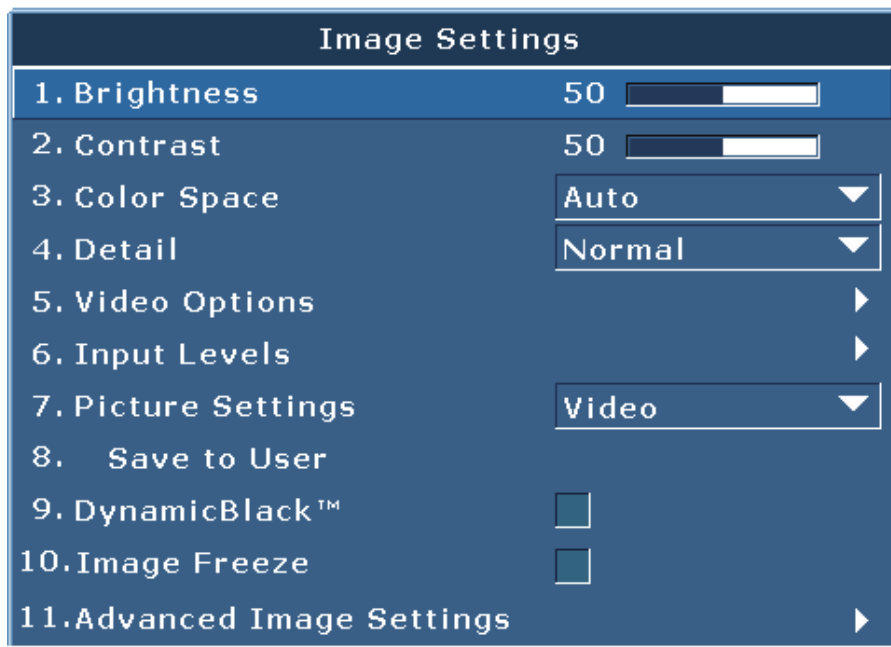


Auto Image

Force the projector to reacquire and lock to the input signal. This is useful when signal quality is marginal. "Normal mode" can support all of the 4:3 input sources.

"Wide mode" can support all of the 16:9 input source & most of the 4:3 input source. For those 4:3 input sources not recognized by "Wide mode" (example 1400 x 1050), perform Auto Image using "normal mode".

4.2 Image Settings Menu



Brightness

Adjust the intensity of the image.

Contrast

Adjust the degree of difference between the lightest and darkest parts of the picture and change the amount of black and white in the image.

Color Space

Select a color space that has been specifically tuned for the input signal. Useful only for analog signals and certain digital sources.

Detail

Select the edge clarity of the image.

Video Options

This function is used with video sources only.

- **Color:** Adjust a video image from black and white to fully saturated color. The color setting applies to video sources only.
- **Tint:** Adjust the red-green color balance in the image of NTSC video images. The tint setting applies to NTSC video sources only.
- **Noise Reduction:** Reduce temporal or spatial noise in the image.
- **Flesh Tone Correction:** Control the amount of flesh tone correction applied to the image.

- Video Black Level: Analyze the current input image and calculate an offset value which is then added to the analog to digital converter black level value. This ensures optimum black level for each analog source.
- Detect Film: Control film mode detection and determine whether the original source of the input video was film or video.
- Closed Captions: Control closed caption display while audio is not muted. If this setting is not off, audio is not muted, the source is NTSC and contains captions on the selected channel, then the projector must display caption text overlaid on the image.

Input Levels

VGA / Component signals only.

- Adjust the gain of the red, green, or blue channel of the image. It will affect the white.
- Adjust the offset of the red, green, or blue channel of the image. It will affect the black and white.
- Sync Threshold: (progressive signals only) If a hardware device, such as a DVD player, is not syncing properly with the projector, select this option to help it to sync when connected to the projector.

Picture Settings

Optimize the projector for displaying images under certain conditions, such as presentation, video, bright, whiteboard, blackboard, beige wall and user-definable preset. It will affect Gamma, Sharpness, White Peaking, Overscan, Brightness, Contrast, Color, Tint, Red Gain, Green Gain, Blue Gain, Red Offset, Green Offset, Blue Offset.

Save to User

Adjust the image settings and select Save to User as a picture setting. You can recall these settings in the future by selecting the User in the Picture Settings menu. The setting of Brightness, Contrast, Color, Tint, Red Gain, Green Gain, Blue Gain, Red Offset, Green Offset, Blue Offset, Color Temp, Gamma, Detail, BrilliantColor, White Peaking and Overscan will be saved.

DynamicBlack™

Select the check box to constantly adjust the aperture based on the amount of black in the current scene.

Image Freeze

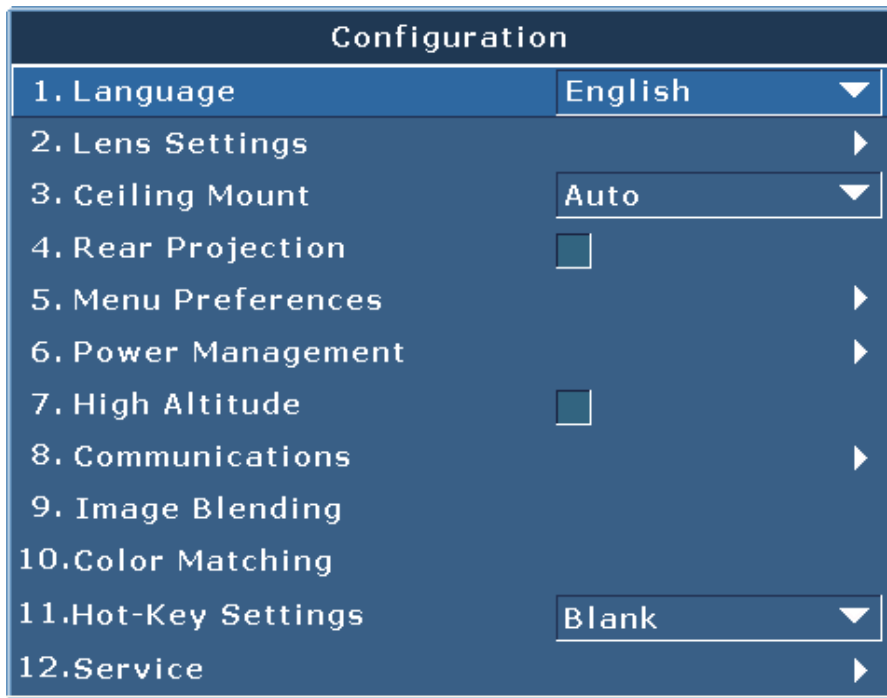
Pause the screen image.

Advanced Image Settings

- Gamma: Select the appropriate gamma from Video, Film, Bright, and CRT.
- BrilliantColor™: Produce an expanded on-screen color spectrum that delivers enhanced color saturation for bright, true-to-life images.

- White Peaking: (video source only) Increase the brightness of whites that are near 100%.
- Color Temperature: Change the intensity of the colors. Select a listed relative warmth value.
- Edge Enhancement: Apply the edge enhancement process.

4.3 Configuration Menu



Language

Allows you to select an available language for the OSD display, from English, French, German, Italian, Spanish, Chinese(simplified), Japanese, Korean, and Russian.

Lens Settings

- Focus and Zoom: Adjust the focus and zoom the image in or out.
- Lens Shift: Shift the lens up and down or left and right.
- Lock Lens Motors: Select this function to prevent all lens motors from moving. It will disable the Zoom, Focus, Horizontal and Vertical Position settings, effectively locking out any changes and overriding all other lens features. This is particularly useful to prevent accidental lens position changes in multi-projector installations.
- Lens Calibration: Calibrate the lens center

Ceiling Mount

Turn the image upside down for ceiling-mounted projection.

Rear Projection

Reverse the image so you can project from behind a translucent screen.

Menu Preferences

- Menu Horz Position: Change the horizontal position of the OSD.
- Menu Vert Position: Change the vertical position of the OSD.
- Show Messages: Display status messages on the screen.
- Menu Transparency: Change OSD menu background to be transparent.

NOTE:

❖ As the value increases, more of the image behind the menu is visible.

- Splash Screen: Choose which splash screen is to be used.
- PIN Protect: The PIN (personal identification number) feature allows you to password protect your projector. Once you enable the PIN feature, you must enter the PIN before you can project an image.
- Change PIN: Allows you to change the PIN.

Power Management

- Standby Mode: The projector is in standby mode when connected to AC power. (<0.5W)
- AC Power On: The projector automatically turns on when electrical power is connected.
- Auto Shutdown: Automatically turns the projector off after no signals are detected for a preset number of minutes. If an active signal is received before the projector powers down, the image will be displayed.
- Sleep Timer: Allows the projector to automatically power off after it has been on for a specified amount of time.

High Altitude

Set high altitude mode ON/OFF. When ON, the fan will operate at high speed to ensure sufficient air flow for high altitudes.

Communications

- Network: Allow you to setup network settings.
 - DHCP: Turn the DHCP ON/OFF.
 - IP Address: Assign Network IP Address.
 - Subnet Mask: Assign Network Subnet Mask.
 - Default Gateway: Assign Network Default Gateway.
 - Host Name: Display the host name.
 - MAC Address: Displays network MAC Address value.
 - Show Network Messages: Turn network messages ON/OFF.
 - Restart Network: Restart the network.
 - Network Factory Reset: Perform factory reset on the network settings. The Projector Name, LAN IP, WLAN IP, and SNMP settings will be reset.

- Baud Rate: Select the serial port and baud rate.
- Serial Port Echo: Control whether the serial port echoes characters.
- Projector Address: Set the projector address (0-9). The projector will respond to IR remotes set either at the same address as the projector or to IR remotes set to address 0.

Image Blending

Adjust blend widths and settings to left, right, top and/or bottom sides to create a seamless multi-projector stitched image. (Available only when optional Dual Processor Warp Module is installed.)

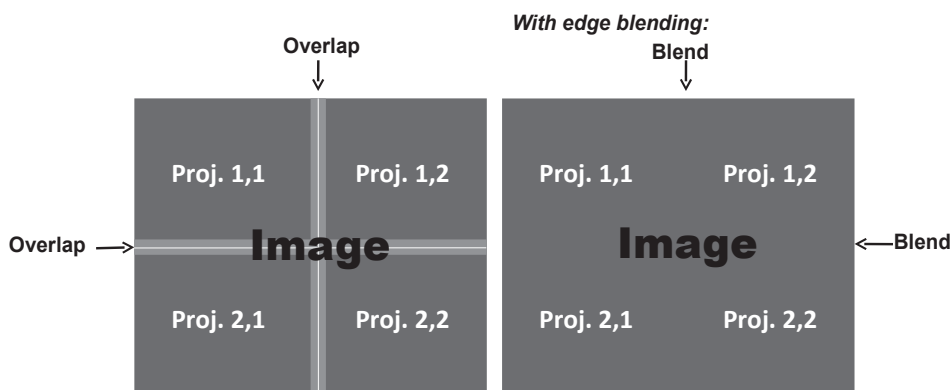
What is a Blend?

In simple terms, a blend appears as a gradient strip along an edge of a projected image. It is darkest along the extreme edge of the image, and lightens nearer to the rest of the image (see below).



How are Blends used?

In multiple-projector wall, complementary blends between neighboring images can compensate for the extra “brightness” or intensity where these edges overlap. By controlling blend width and other properties, you can achieve uniformity across the group of images. Visible overlaps will disappear, as shown below



Blending regions can be defined on all sides – left, right, top and bottom. The same gamma curve is used for all blending regions.

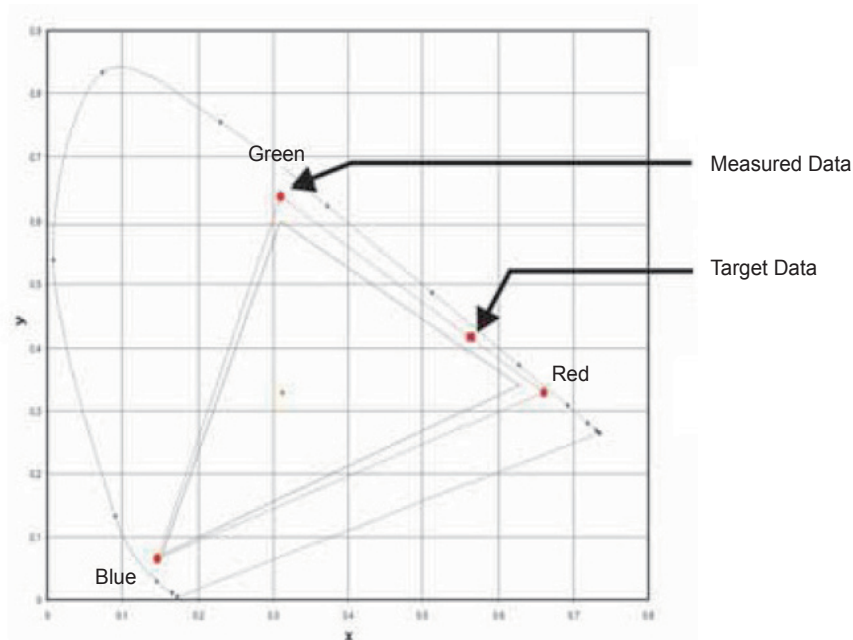
Color Matching

You may require a unique color gamut (range) for a single projector or application, or you may need to precisely match colors across multiple adjacent displays. Use Color Matching by Meter Adjustment or by Manual Adjustment to define the precise hue of each primary color component (red, green, blue and white).

The x/y coordinates for each color define its location on the standard CIE chromaticity graph. Changing either or both of these numbers will change the hue of the color, and modify the range of possible colors. For example, changing the x/y coordinates for red may move the color closer to orange or closer to violet, which will in turn affect all displayed colors having a red component. Adjust the slide bars or enter new specific coordinates as desired to define or change the color gamuts needed for your environment and applications.

Enable the selected method (Meter or Manual Adjustment)– this will automatically disable the other method. For both methods, if Auto Test Pattern is enabled, the solid colored test pattern will be displayed according to the menu item on which you are positioned.

- Meter Adjustment
 1. Using a color meter, enter the current x and y co-ordinates of Red, Green, Blue and White for the projector image into the Measured Data menu. This is the reference point for the projector. The default values in the menu are based on the average for all projectors.
 2. After measuring the values for all the projectors to be matched, calculate the target values.
 3. Enter the target values for x, y and gain for each color into the Target Data menu.



- **Manual Adjustment**
 1. Adjust color slide bars and judge image color by eye or meter. A user-defined color “adjustment” can be applied.
 2. Use this submenu if you do not have specific color coordinates in mind and will judge color performance by eye or meter. As for Meter Adjustment, each color control actually defines new x/y coordinates for that color and changes its hue. The main colors (red part of red, green part of green and blue part of blue) adjust the intensity of that color component, while the modifying colors (e.g. green part of red and blue part of red) modify the x and y value and change the hue of that color. At the same time the main colors also are used to control the color of the white point.

Hot-Key Settings

Assign a different function to the hot-key on the remote control by highlighting the function in the list and pressing ENTER. Choose a function that does not already have a dedicated button, and assign the hot-key to that function, allowing you to quickly and easily use the chosen function.

Service

- **Projector Info:** Display current projector settings (read-only).
- **Factory Reset:** Restore all settings to their default value. It will not reset network but it will reset RS232.
- **Test Pattern:** Choose the desired internal test pattern to display, or select OFF to turn off a test pattern.
- **Color wheel Index (2x):** Set Color wheel index to Speed 2X. This setting only needs to be used when the Main Board is changed, and should be

adjusted to optimize picture quality.

- Color wheel Index (3x): Set Color wheel index to Speed 3X. This setting only needs to be used when the Main Board is changed, and should be adjusted to optimize picture quality.
- Error log: Show the projector error log for debug.
- Mode Adjustment: Fine tune the H and V start position for a signal in the EDID timing table and record the values in the system to override the timing table. The settings must be "Saved to Record" before exiting the menu, or they will be lost. To revert to original timing table settings, each setting must be manually cleared. Factory Defaults will not clear these override settings.

4.4 Lamp Menu

Lamp	
1. Lamp Mode	Constant Power ▼
2. Constant Power	330
3. Constant Intensity	
4. Current Lamp	Both ▼
5. Eco Mode	Off ▼
6. Lamp Auto Switch	After X Hours ▼
7. Lamp Auto Switch Time	500
8. Lamp Info	▶
9. Lamp Life Settings	1500
10. Reset Lamp Hours	▶
11. Light Sensor	▶

Lamp Mode

Select Constant Power or Constant Intensity mode.

Constant Power

Set the value of the lamp power (in Watts).

Constant Intensity

Set the value for the Constant Intensity to maintain constant brightness. A light sensor is used to monitor the light level and will apply more power as the lamp brightness decays naturally over time until it reaches maximum power. The light sensor needs to be calibrated when you replace a lamp or "Reset Lamp Hours".

Current Lamp

Select which lamp(s) is in use.

NOTE:

❖ A 120 second timed lockout is applied after changing modes before you can change it again.

Eco Mode

Set Eco mode ON, OFF, Auto or assign a lamp to Eco mode. When Eco Mode is enabled, the projector will switch to single lamp mode, adjust to the lowest fan speed and switch the lamp power to the minimum setting.

Lamp Auto Switch

Control when the projector switches lamps. Options include: on failure only, at

power-up, or after a set number of hours.

Lamp Auto Switch Time

Set the number of hours for Lamp Auto Switch.

For example:

1. Lamp conditions: lamp 1 = 50 hours, lamp 2 = 60 hours.
2. Set the current lamp to lamp 1 - the lamp with the lower lamp hour usage.
3. Set the Lamp Auto Switch to After (N) hours and the Lamp Auto Switch Time to 100 hours.
4. When lamp 1 reaches 150 hours, projector will auto switch to lamp 2.
5. When lamp 2 reaches 160 hours, projector will auto switch to lamp 1.

Lamp Info

Display current lamp(s) settings (read-only).

Lamp Life Settings

Set the number of hours for the lamp life warning. At every startup, the lamp hours are checked. If they exceed this value, a lamp replace message will appear.

Reset Lamp Hours

Reset the lamp used hours counter to zero. Do this after changing the lamp.

Light Sensor

Calibrate the Light Sensor for use with the Constant Intensity lamp mode, which allows the projector to be set for constant brightness. If the Light Sensor has not been calibrated, Constant Intensity mode will be disabled. Light Sensor calibration should be repeated when new lamps are installed.

4.5 Status Menu

The read-only Status menu lists a variety of details about the standard and optional components currently detected in the projector.

Status	
Model Name	DWU675-E
Serial Number	UC102000001
Native Resolution	1920 x 1200
Firmware	V15, A22, B08
Main Input	VGA
Main Signal Format	720p
Main Pixel Clock	74.256MHz
Main Sync Type	Sync on Green
Main Horz Refresh	45.10kHz
Main Vert Refresh	60.0Hz
PIP/PBP Input	-
PIP/PBP Signal Format	-
PIP/PBP Pixel Clock	-
PIP/PBP Sync Type	-
PIP/PBP Horz Refresh	-
PIP/PBP Vert Refresh	-
Lamp Power Settings	330 W
Current Lamp	Both
Lamp 1 Hours	70
Lamp 2 Hours	70
Standby Mode	1W Mode
Lens Lock Settings	Allow
IP Address	192.168.0.100
DHCP	No
System Temperature	38℃

4.6 Input Switching & PIP Menu

Input Switching & PIP	
1. Main Input	VGA ▼
2. PIP/PBP Input	BNC ▼
3. PIP/PBP Enable	☒
4. Swap	▶
5. Size	Median ▼
6. Layout	Top Right ▼
7. Timing Detection Mode	Wide ▼
8. Source Info	▶
9. Enable Main Source Hot-Key	☒
10. Source Hot-Key	▶
11. Input Key	▶

NOTE:

❖ Reference the compatibility table found in Section 6.2.

Main Input

From the list of active inputs, select one to be used as the main image.

PIP/PBP Input

From the list of active inputs, select one to be used as the PIP/PBP.

PIP/PBP Enable

Toggle between displaying two sources at once (Main and PIP/PBP images) or one source only. The check box turns the PIP/PBP source ON and OFF.

Swap

Change the main image to PIP/PBP, and the PIP/PBP to main image. Swapping is available only when PIP/PBP is enabled.

Size

Select the PIP/PBP size to small, medium or large.

Layout

Set the location of the PIP/PBP image on the screen.

NOTE:

- ❖ PIP/PBP layout and size table as described below.
- ❖ P : indicates primary source region (lighter color).
- ❖ * : Both source regions are the same size.

PIP/PBP Layout	PIP/PBP Size		
	Small	Medium	Large
PBP, Main left			
PBP, Main Top			
PBP, Main Right			
PBP, Main Bottom			
PIP-Bottom Right			
PIP-Bottom Left			
PIP-Top Left			
PIP-Top Right			

Timing Detection

Select timing detection mode to wide or normal. It is used to support additional PC timings. When the projected picture is not completed, this function is used to adjust the picture. "Normal mode" can support all of the 4:3 input sources.

"Wide mode" can support all of the 16:9 input source & most of the 4:3 input source. For those 4:3 input sources not recognized by "Wide mode" (example 1400 x 1050), perform Auto Image using "normal mode".

Source Info

Display current source settings (read-only).

Enable Source Hot-Key

Toggle the check box to enable or disable the main source hot-key.

Source Hot-Key

Allows you to assign a different source to the hot-key. Highlight an input and press ENTER to choose a different one.

Input Key

Use it to list all of the sources or change the sources.

4.7 Language Menu

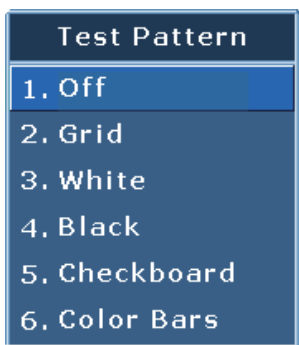
Allows you to select an available language for the OSD display.



4.8 Test Pattern Menu

Choose the desired internal test pattern to display, or select OFF to turn off a test pattern.

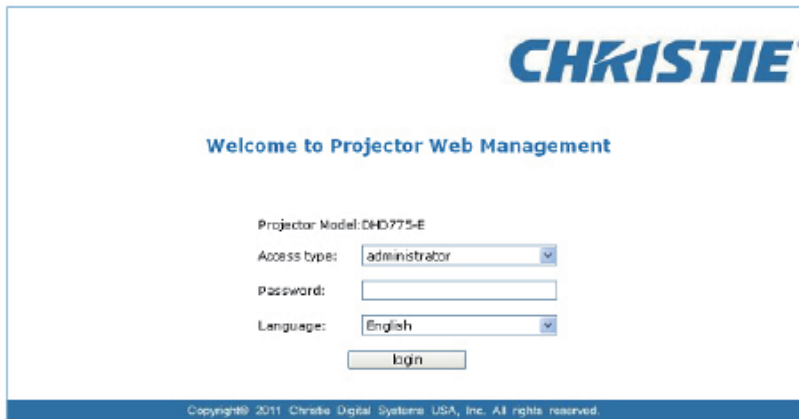
- OFF
- Black
- White
- Checkerboard
- Grid
- Color Bars



4.9 Web User Interface

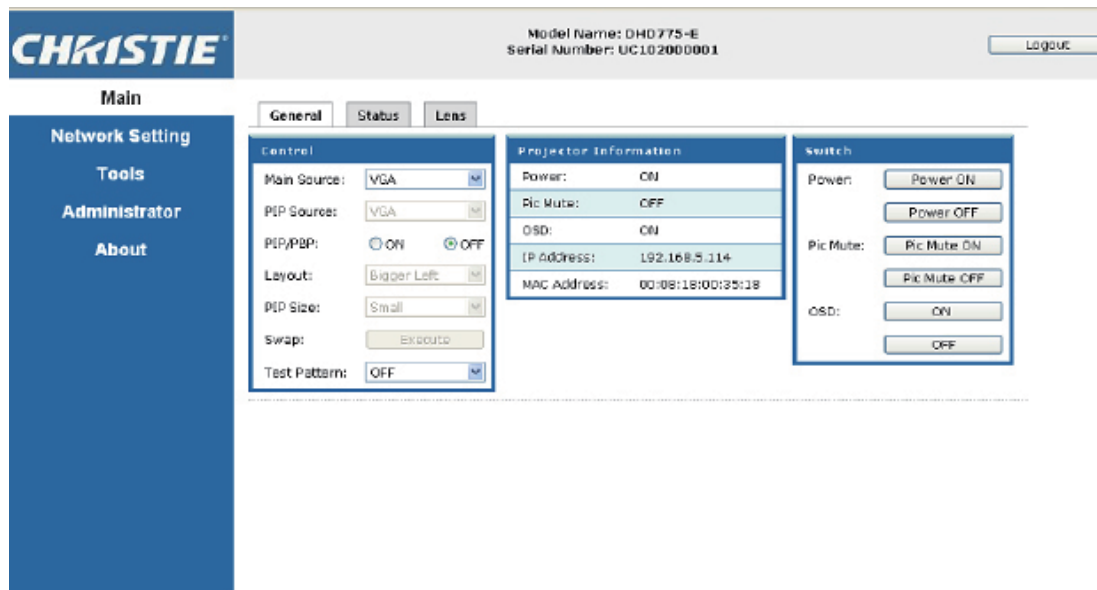
4.9.1 Logging On

Open your web browser and type the IP address (in the address bar) assigned to your projector.



- 1 Select the log in level from the Access type drop-down list
- 2 Enter the Password in the Password field
- 3 Select the appropriate language from the Language drop-down list.
- 4 Click the Press login button. The Main window appears.

4.9.2 Main Tabbed Page – General



- **Control Panel**
Select main source / PIP source, enable/disable PIP/POP, change the layout / PIP size, swap, and change the test pattern.

- **Projector Information Panel**
Check the projector information for power status, Pic mute status, OSD status, IP address and Mac address.
- Switch Panel**
Switch the on/off status of power, Pic mute, and OSD.

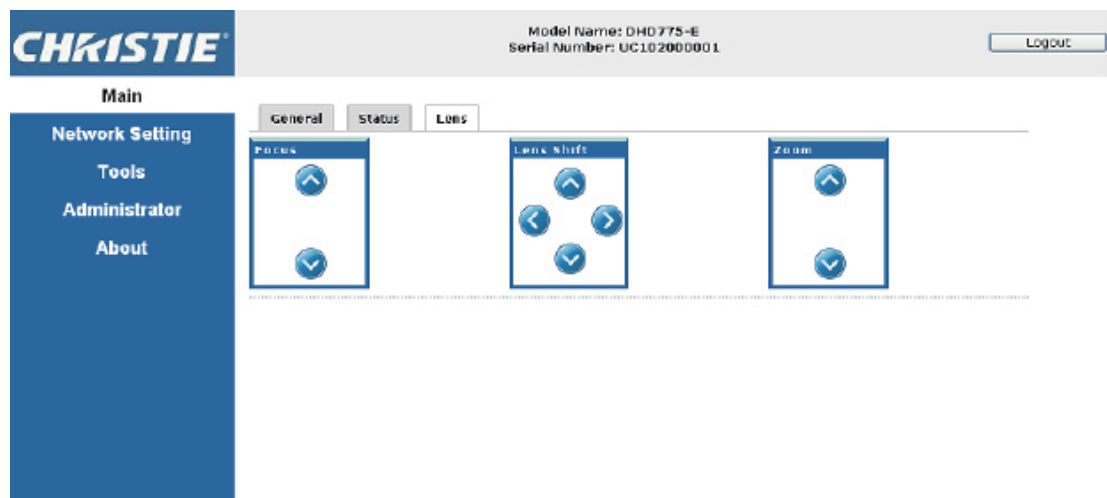
4.9.3 Main Tabbed Page – Status

Display the current status of lamp info, cooling (fans), version numbers and signal (source) information

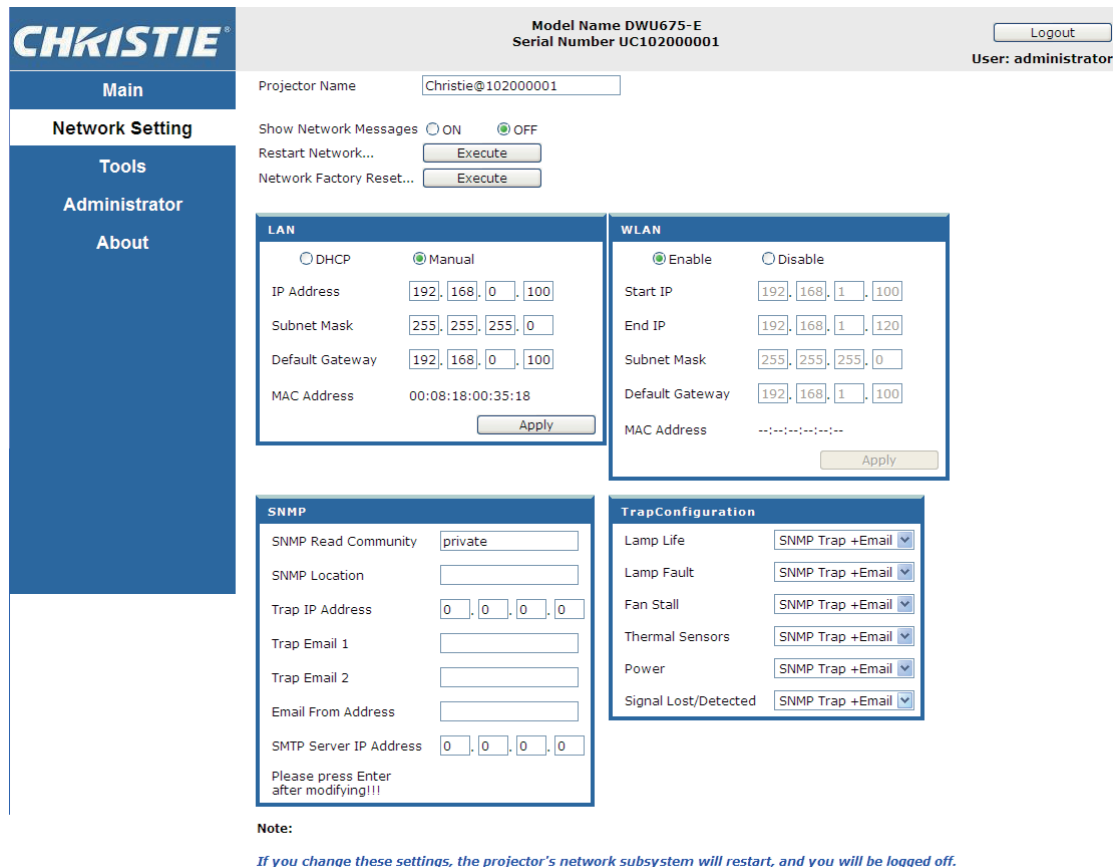


4.9.4 Main Tabbed Page – Lens

Control the focus, lens shift and zoom adjustments for the lens.



4.9.5 Network



CHRISTIE Model Name DWU675-E Serial Number UC102000001 Logout
User: administrator

Main
Network Setting
Tools
Administrator
About

Projector Name:

Show Network Messages: ☐ ON ☒ OFF

Restart Network...

Network Factory Reset...

LAN

☐ DHCP ☒ Manual

IP Address:

Subnet Mask:

Default Gateway:

MAC Address: 00:08:18:00:35:18

WLAN

☒ Enable ☐ Disable

Start IP:

End IP:

Subnet Mask:

Default Gateway:

MAC Address: --:--:--:--:--:--

SNMP

SNMP Read Community:

SNMP Location:

Trap IP Address:

Trap Email 1:

Trap Email 2:

Email From Address:

SMTP Server IP Address:

Please press Enter after modifying!!!

TrapConfiguration

Lamp Life:

Lamp Fault:

Fan Stall:

Thermal Sensors:

Power:

Signal Lost/Detected:

Note:
If you change these settings, the projector's network subsystem will restart, and you will be logged off.

SettingsPage

- Restart Network
 - Execute a network restart. This will not change any of the network settings.
- Network Factory Reset

Execute a network factory reset. Network settings will be reset to the following default values:

 - Projector Name = Christie@ + Serial Number
 - Show Network Messages = ON
 - LAN Settings:
 - Manual
 - IP Address = 192.168.0.100
 - Subnet Mask = 255.255.255.0
 - Default Gateway = 192.168.0.100
 - WLAN Settings:
 - Enabled

- Start IP = 192.168.1.100
- End IP = 192.168.1.120
- Subnet Mask = 255.255.255.0
- Default Gateway = 192.168.1.100
- SNMP Settings:
 - SNMP Read Communication = private
 - Trap IP Address = 0.0.0.0
 - SMTP IP Address = 0.0.0.0
 - All other settings are cleared/blanked
- Trap Configuration:
 - All items = SNMP Trap + Email
- LAN Panel
Enter the IP address, subnet mask, default gateway for the LAN setting
 - Select if the projector must obtain an automatically assigned IP address through DHCP or if the user will set the address manually.
 - Enter the IP address, netmask, default gateway and DNS server address for the TCP/IP setting
- WLAN Panel
 - Select if Enable or Disable the WLAN function.
 - Enter Start IP, End IP, Subnet Mask, Default Gateway for the WLAN setting.
- SNMP Panel
 - The E Series SNMP (Simple Network Management Protocol) interface provides network administrators with a common way to manage their network devices from a single remote location. SNMP allows an administrator to query a number of devices to see their current status/configuration. It also allows operators to change configuration values and configure trap or Email notifications to be sent when certain events occur.(eg. Loss of signal, power state change, etc)
 - ▶ Emails are sent to the mail server configured in the projector settings. Up to 2 user email accounts can be selected. Any important information regarding the event will be located in the body content of the email.
 - ▶ SNMP Traps are notifications that are sent from the projector. They are only received by a trap receiver (MIB Browser) in the computer.
 - SNMP Read Community (default setting: private) – this is a plain-text password. This must also be entered in the MIB browser. This password allows the various settings in the projector to be queried.

- SNMP Location (default setting: blank) – This field can be used as a description to where a projector is located in a building. SNMP emails sent will specify this location.
- Trap IP Address (default setting: 0.0.0.0) – This field must be filled in to receive Traps from the projector. The Trap IP Address should be filled in with the IP Address of the computer on which you would like to view received traps.
- Trap Email 1/2 (default setting: Blank) – The Trap Email 1 and 2 must be set to an email address that is configured under the mail server that you will enter in the “SMTP Server IP Address” field.
- Email from Address (default setting: blank) – the “Email from Address” that will appear as the source of the SNMP emails.
- SMTP Server IP Address (default setting: 0.0.0.0) – Enter your mail server’s IP address.
- Trap Configuration Panel
Set the SNMP actions for the system events. The dropdown options are: SNMP Trap + Email, Email, SNMP Trap, and Disabled.

4.9.6 Tools

Use the Tools tabbed pages to control “Size & Position”, “Image Settings”, “Configuration”, “Lamp”, “Input Switching & PIP” and “Test Pattern”.

The screenshot displays the CHKISTIE web interface. On the left, a blue sidebar contains navigation links: Main, Network Setting, Tools, Administrator, and About. The main content area has a header with the CHKISTIE logo, model name (DHD 775-LE), serial number (UC102000001), and a Logout button. Below the header, there are tabs for Size & Position, Image Settings, Configuration, Lamp, Input Switching & PIP, and Test Pattern. The 'Tools' tab is selected, showing the 'General Size and Position' settings. These settings are organized into two columns. The left column includes 'Size Presets' (set to Auto), 'Overscan' (set to Off), 'Auto Image' (with an Execute button), 'Pixel Track' (set to disable), and 'Pixel Phase' (set to disable). The right column includes 'Horiz Position' (set to disable), 'Vert Position' (set to disable), 'Digital Horiz Zoom' (set to disable), 'Digital Vert Zoom' (set to disable), 'Digital Horiz Shift' (set to disable), and 'Digital Vert Shift' (set to disable). Below these, there are two sections: '2D Keystone' with 'Horz Keystone' and 'Vert Keystone' both set to 50, and 'Basic Geometry Correction' with 'Horz Pinushion' and 'Vert Pinushion' both set to 50. Each setting is accompanied by minus, value, and plus buttons for adjustment.

4.9.7 Administrator Page

Add or delete a user or change password

Model Name: DHD775-E
Serial Number: UC102000001

Logout

Access type	USER ID
USER	user
GUEST	guest
ADMIN	administrator

Add User
Delete User
Change Password

4.9.8 About Page

Model Name: DHD775-E
Serial Number: UC102000001

Logout

Version License

Version Information	
Main Firmware:	V1.5
Network Firmware:	600
Projector Model Name:	DHD775-E
Projector serial number:	UC102000001

- **Version Tab**
View the main firmware version, network firmware version, projector model name, and projector serial number.
- **License Tab**
The license information of the computer program is displayed.

4.10 Christie Presenter

The Christie Presenter application allows a remote desktop from a host PC to be displayed on the network display through Ethernet, USB, or wireless transports. It can adapt to different network settings (DHCP, fixed IP, and direct link by USB/Ethernet cable).

Christie Presenter can be downloaded from the Christie website or from the web page of the projector.

4.10.1 Connect to the Projector and Download Christie Presenter Software

1. Connect to the projector using WiFi or Ethernet

- Ethernet connection:

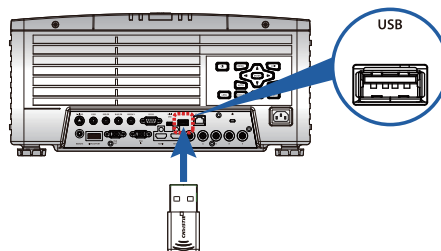
- ▶ Determine the projector's IP address from the menu Main Menu > Configuration > Communications > LAN

LAN	
1. DHCP	☐
2. IP Address	192.168.0.100
3. Subnet Mask	255.255.255.0
4. Default Gateway	192.168.0.254
5. MAC Address	00:08:18:00:35:18

- ▶ Configure your PC IP address to be on the same network as the projector.
- ▶ The projector and computer must be connected directly or over the network via Ethernet.

- WiFi Wireless connection:

- ▶ Insert the WiFi USB dongle (1DWUSB-BGN) into the USB port on the projector input panel.



Insert the WiFi USB dongle

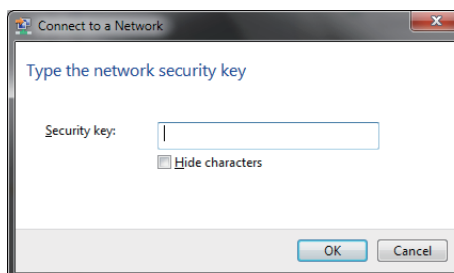
- ▶ Power on the Projector.
- ▶ Obtain the WiFi Password from the OSD menu Main Menu > Configuration > Communications > WLAN

WLAN	
1. Enable	☐
2. Start IP	192.168.1.100
3. End IP	192.168.1.120
4. Subnet Mask	255.255.255.0
5. Default Gateway	192.168.1.100
6. MAC Address	00:08:20:A1:D3:22
7. SSID	Christie@031012001
8. Password	031012013

- ▶ Connect your PC device to the wireless SSID for the selected projector . Example: “Christie@0112000123”.

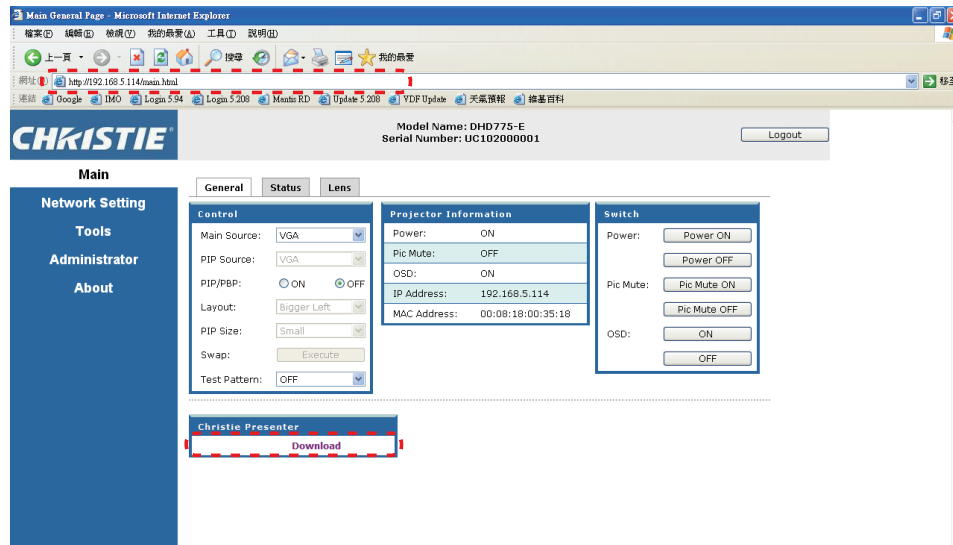


- ▶ Enter the password obtained from the OSD WLAN menu.

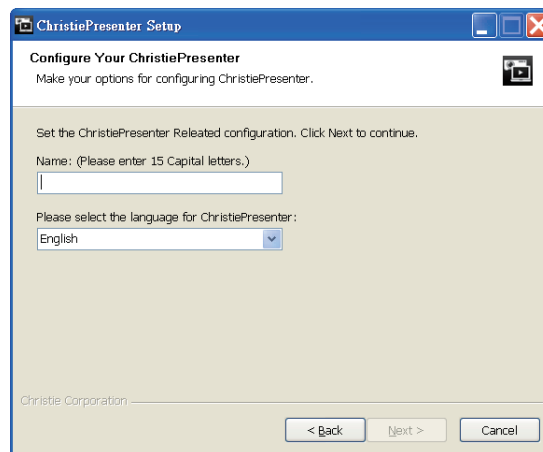


4.10.2 Install Christie Presenter software

1. Use a web browser to connect to the projector's network address (Default address 192.168.1.100)
2. Download and install the Christie Presenter Software



3. Configure the Christie Presenter Software. The name entered is used to identify all computers connected to the projector via the Christie Presenter software via either wired or wireless connections. The Network Display Management -> Device Management tab will show all current connections.



4.10.3 Use Christie Presenter

1. Press the autorun icon in the system tray to pause or play the USB display.



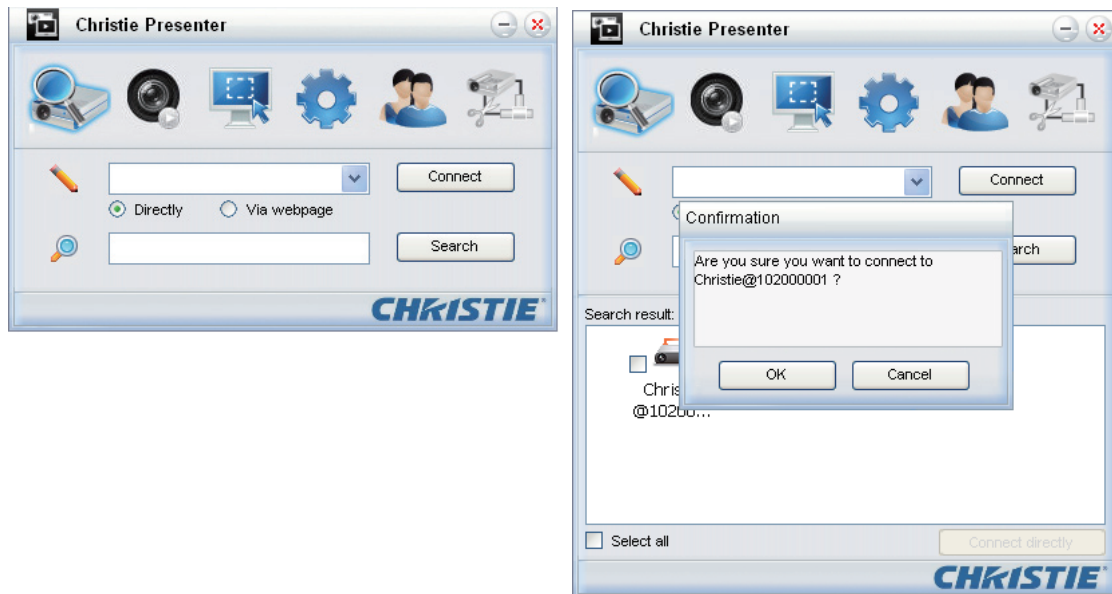
2. After starting the Christie Presenter application, the main window can be seen (shown below).



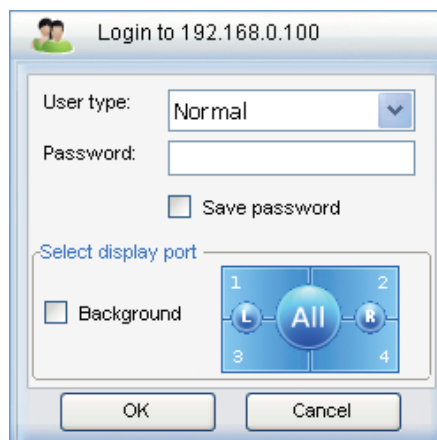
Icon	Description
	Connect and search network display
	Stop/start displaying desktop contents to connected network display
	Select display region
	Configure Christie Presenter
	Manage all connected network displays
	Disconnect all connections

Connect and search network display

1. Click the button  to enter into the connection menu section.
2. If the IP address of the projector is known, enter the IP address and click the "Connect" button. If the IP address is not known, click the "Search" button to search for the projector on the network and select the projector to which you want to connect. Select the option "Directly" in order to proceed to the log in interface.

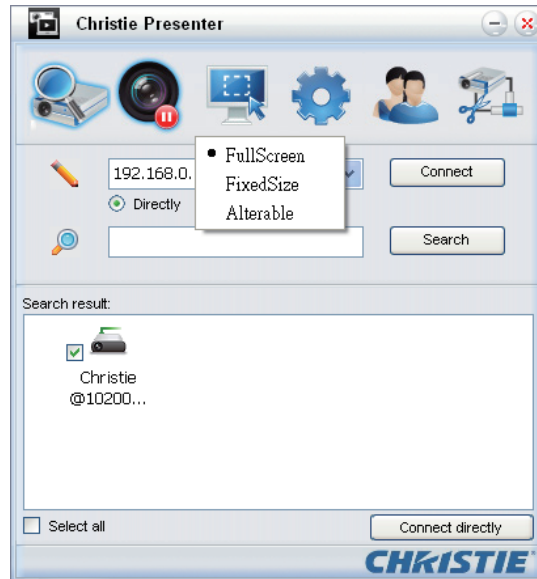


3. Input "User type" and "Password" in the log-in interface. Select the display port (the default is full screen).



Select display region

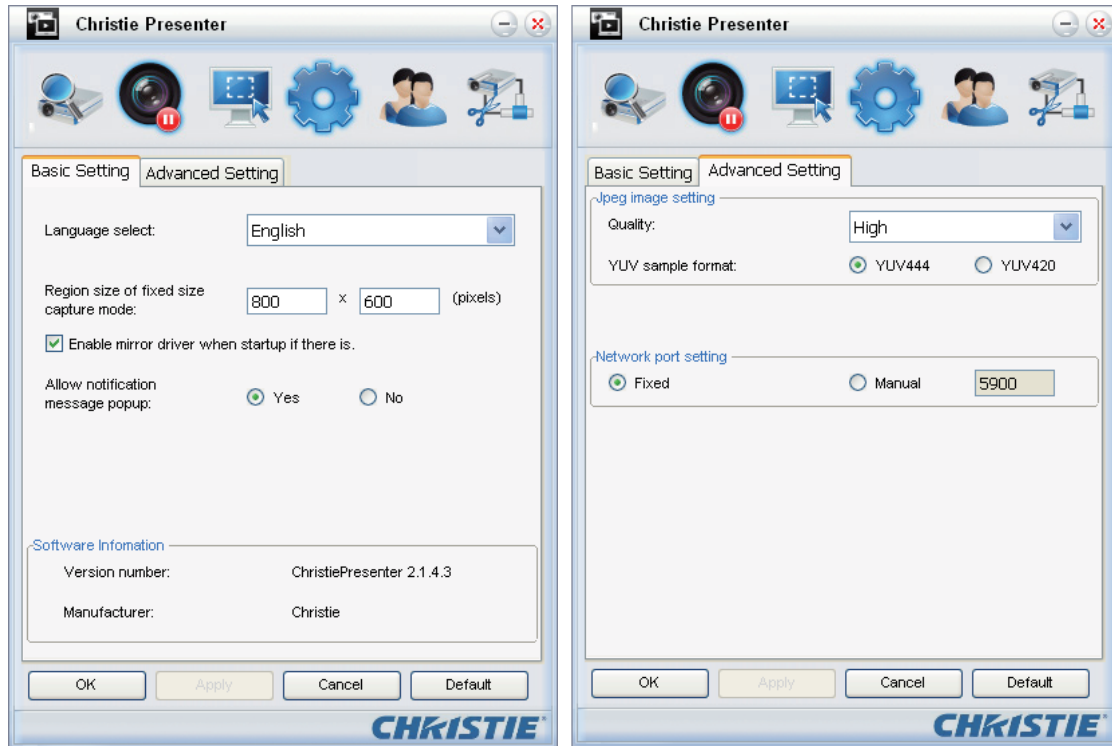
Once the connection is set up, click the button  to select the size of the projection region: FullScreen, FixedSize, or Alterable.



- **FullScreen:** The default capture mode turns to Full screen when the program is launched. At that time, if screen capture starts, the image of the whole screen is transferred to a remote network display.
- **FixedSize:** FixedSize mode allows the users to place a frame on the desktop. Only the image enclosed inside the frame is transferred to remote network display.
- **Alterable:** In Alterable mode the only region captured is the one enclosed by the frame. The region can be enlarged or downsized by dragging the eight small black squares scattered on eight edges of the frame.

Configure Christie Presenter

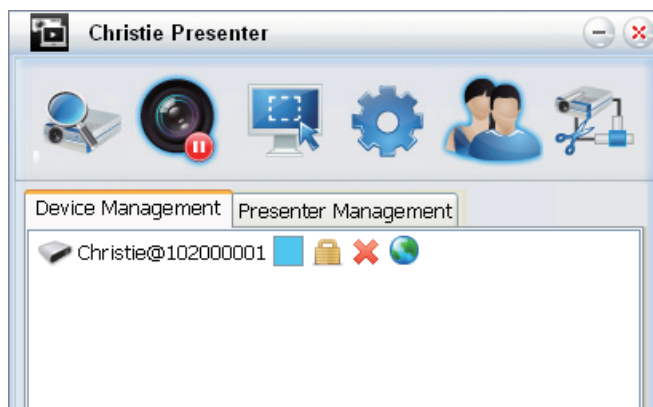
Click the button  to configure Christie Presenter for Basic Setting and Advanced Setting.



- Basic Setting: Select language, change the region size of fixed size capture mode, and select if notification message popup is allowed.
- Advanced Setting: Select the quality of JPEG image, YUV sample format and network port setting. (The "Fixed" port is Port 5900)

Manage all connected network displays

Click the button  to control all the users and all the projectors connector to the same projector.



Icon	Description
	Administrator log in.
	Normal user log in.
	Device is connected.
	Device is not connected.
	The icon shows the current status and display position of the local screen on the network display. Click on the icon to change the display position. A dialog box will appear.
	Click this unlock icon to change the password. (Password change to target network display. Only an Administrator user can change the password.)
	No response is expected when this icon is clicked. If the user is logged in as "Admin", the key icon can be seen and the Presenter password can be changed. If the user is logged in as "Normal", the lock icon can be seen and the Presenter password can't be changed.
	Disconnect from target network display.
	Link for connecting to a target network display via a webpage.

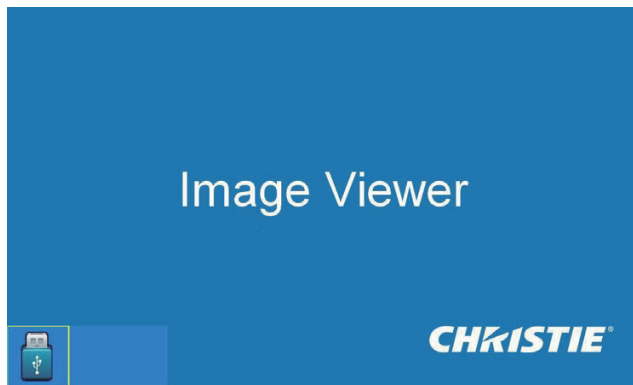
4.11 Card Reader Operation

There are four operation modes in the Card Reader application:

- USB Flash Devices Detection Screen
- Thumbnail Display Mode
- Images Display Mode
- Images Slide Show Mode

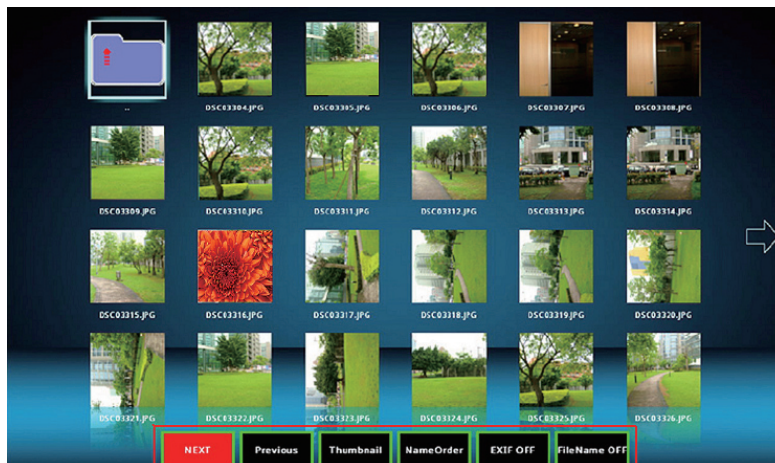
4.11.1 USB Flash Device Detection Screen:

In this mode, the Card Reader application detects any USB flash devices hot-plug events and displays the flash device icon. When the flash device is removed from USB, the icon disappears. It is suggested that USB flash devices should be removed only when the Card Reader is changed to the USB Flash Devices Detection Screen state.



4.11.2 Thumbnail Display Mode:

Press the Enter key to enter the Thumbnail Display Mode. Different photos in different folders can be chosen. Press the Menu key to bring up the Card Reader operation UI.



The user interface is designed to operate the card reader application with a few keys (Enter/Left/Right/Up/Down).

The following buttons are supported in the user interface:

- Previous: Move the selected item left. (Go to previous page when this is the leftmost item)
- Next: Move the selected item right. (Go to next page when this is the rightmost item.)
- Display: Display the selected image or display the selected folder.
- Thumbnail: Enter the Thumbnail Display Mode.
- SlideShow: Enter the Slide Show Mode.
- NameOrder: Sort files/folders in name order.
- ExtendOrder: Sort files/folders in extended order.
- SizeOrder: Sort files/folders in size order.
- TimeOrder: Sort files/folders in time order.
- EXIF ON/OFF: Enable/Disable auto image rotate accordingly to EXIF information.
- FileName ON/OFF: Enable/Disable filename display in Thumbnail Display Mode.

4.11.3 Image Display Mode:

Press the ENTER key in the Thumbnail Display Mode to enter the Image Display Mode. Press the SlideShow key to enter the Slide Show Mode.

The Left/Right key is used to display the last/next image in the Image Display Mode. In the Image Display Mode, press the ENTER key to quit from the Image Display Mode and enter the Thumbnail Display Mode.

In the Slide Show Mode, press the ENTER key to enter the Image Display Mode.

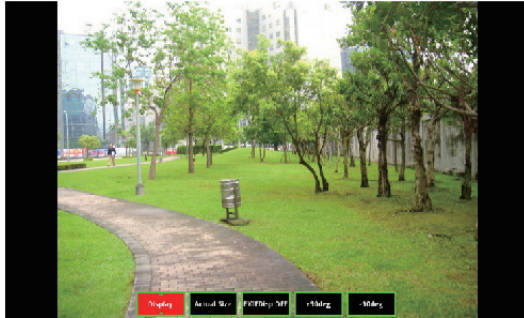


The alternative way to display image in the Image Display Mode or Slide Show Mode is using the operation UI.

The following operations are supported in the operation UI.

- Display: Enter the Image Display Mode.

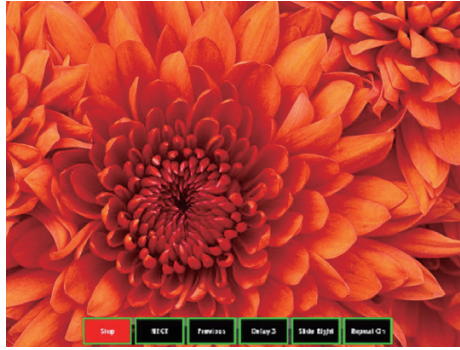
- Thumbnail: Enter the Thumbnail Display Mode.
- SlideShow: Enter the Slide Show Mode.
- Actual Size: Display in actual size of the image.
- Best Fit: Display the image in best fit to the screen.
- EXIFDisp OFF/On: Enable/Disable EXIF information display.
- +90deg: Rotate 90 degree.
- -90deg: Rotate -90 degree.



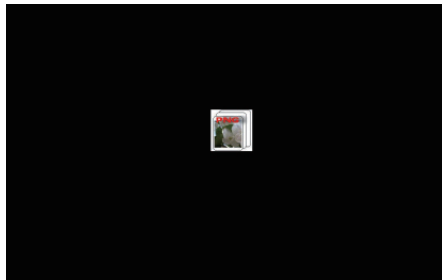
4.11.4 Image Slide Show Mode:

The following operations are supported in the Slide Show Mode operation UI.

- Stop: Stop Slide Show Mode.
- Next: Display next image.
- Previous: Display previous image.
- Delay 3/4/5: Slide Show delay in seconds.
- Slide Effect: Following modes are supported.
 - o Slide Right
 - o Blocks
 - o RightDown
 - o XLines
 - o Slide Up
 - o Ylines
 - o Repeat ON/OFF: Enable/Disable Slide Show Repeat Mode.



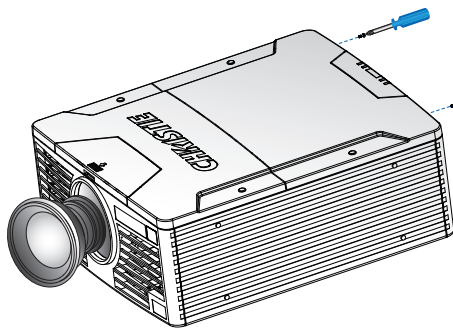
When the image cannot be displayed due to memory limitation or cannot support image format, the specific image is displayed on the center of the screen.



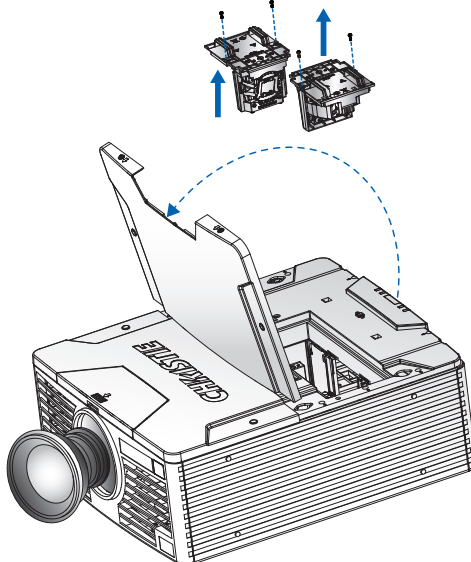
4.12 Install the Lamp

The projector automatically detects the lamp life. When the lamp life is nearing the end of use, you will receive a warning message. When you see this message, please change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.

1. Note the number of the lamp that needs to be replaced on the “Current Lamp” menu.
2. **Turn off the lamps:** Turn the projector OFF and disconnect the power cord.
3. Allow the projector to cool down for at least 30 minutes.
4. **Open the lamp door:** Unscrew the two screws on the lamp door.



5. Open the lamp door located on the top-rear of the projector.
6. **Remove the lamp:** Loosen the two captive screws securing the lamp.
7. Lift up the lamp by grasping handle and remove the lamp module slowly and carefully.



8. **Install the new lamp:** Replace the lamp with a new one and tighten two screws. Make sure the lamp is set properly and secure.
9. **Close the lamp door:** Put the Lamp Door back on and tighten two screws.
10. **Reset the projector:** Turn the projector ON and use “Reset Lamp Hours” after the lamp module is replaced.
11. Recommend calibrating light sensor if using Constant Intensity for lamp mode.

5. TROUBLESHOOTING

If you are unable to resolve an issue using the information provided in this section, contact your reseller or service center.

Problem	Solution
No image appears on-screen	- Make sure all the cables and power connections are correctly and securely connected See “Installation”. - Check if the lamp is securely installed. - Make sure you have removed the lens cap and the projector is switched ON.
Partial, scrolling or incorrectly displayed image	- Press “AUTO” on control panel or on remote control. - If you are using a PC (for Windows 95, 98, 2000, XP, Windows 7): - Click the “My Computer” > “Control Panel” and then double - click “Display”. - Select the “Settings” tab. - Verify that your display resolution setting is lower than or equal to WUXGA (1920 × 1200). - Click on the “Advanced Properties” button. If the projector is still not projecting the whole image, change the monitor display: - Verify the resolution setting is lower than or equal to WUXGA (1920 × 1200). - Select the “Change” button under the “Monitor” tab. - Click on “Show all devices”. Next, select “Standard monitor types” under the SP box; choose the resolution mode you need under the “Models” box. - Verify that the resolution setting of the monitor display is lower than or equal to WUXGA (1920 × 1200).

Problem	Solution																				
Partial, scrolling or incorrectly displayed image	- If you are using a Notebook: - Adjust resolution of the computer. - Press the keys listed below for your notebook manufacturer to send signal out from notebook to projector. Example: [Fn]+[F4] <table border="1"> <thead> <tr> <th>Notebook Brand</th><th>Function Keys</th></tr> </thead> <tbody> <tr> <td>Acer</td><td>[Fn]+[F5]</td></tr> <tr> <td>Asus</td><td>[Fn]+[F8]</td></tr> <tr> <td>Dell</td><td>[Fn]+[F8]</td></tr> <tr> <td>Gateway</td><td>[Fn]+[F4]</td></tr> <tr> <td>IBM/Lenovo</td><td>[Fn]+[F7]</td></tr> <tr> <td>HP/Compaq</td><td>[Fn]+[F4]</td></tr> <tr> <td>NEC</td><td>[Fn]+[F3]</td></tr> <tr> <td>Toshiba</td><td>[Fn]+[F5]</td></tr> <tr> <td>Mac Apple</td><td>System Preference ⇒ Display ⇒ Arrangement ⇒ Mirror display</td></tr> </tbody> </table> - If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.	Notebook Brand	Function Keys	Acer	[Fn]+[F5]	Asus	[Fn]+[F8]	Dell	[Fn]+[F8]	Gateway	[Fn]+[F4]	IBM/Lenovo	[Fn]+[F7]	HP/Compaq	[Fn]+[F4]	NEC	[Fn]+[F3]	Toshiba	[Fn]+[F5]	Mac Apple	System Preference ⇒ Display ⇒ Arrangement ⇒ Mirror display
Notebook Brand	Function Keys																				
Acer	[Fn]+[F5]																				
Asus	[Fn]+[F8]																				
Dell	[Fn]+[F8]																				
Gateway	[Fn]+[F4]																				
IBM/Lenovo	[Fn]+[F7]																				
HP/Compaq	[Fn]+[F4]																				
NEC	[Fn]+[F3]																				
Toshiba	[Fn]+[F5]																				
Mac Apple	System Preference ⇒ Display ⇒ Arrangement ⇒ Mirror display																				
The screen of the Notebook or PowerBook computer is not displaying your presentation	If you are using a Notebook PC Some Notebook PCs may deactivate their own screens when a second display device is in use. Each of them has a different method of reactivation. Please refer to your computer manual for detailed information.																				
Image is unstable or flickering	- Use “Pixel Track” and “Pixel Phase” to correct it. - Change the monitor color setting on your computer.																				
Image has vertical flickering bar	- Use “Auto Image” to make an adjustment. - Check and reconfigure the display mode of your graphic card to make it compatible with the projector.																				

Problem	Solution
Image is out of focus	- Make sure both lens caps (front and back) are removed. - Adjust lens focus to fit. - Make sure the projection screen is between the required distance.
The image is stretched when displaying 16:9 DVD title	- When you play anamorphic DVD or 16:9 DVD, the projector will show the best image when the projector display mode is set to 16:9 in the OSD. - If you play 4:3 format DVD titles, please change the format to 4:3 in the projector OSD. - If the image is still stretched, you will also need to adjust the aspect ratio by setting the display format as 16:9 (wide) aspect ratio type on your DVD player.
Image is too small or too large	- Adjust lens zoom to fit. - If it does not fill the screen properly, verify that the correct lens is in use or change the position of the projector.
Lamp burns out or makes a popping sound	If the lamp burns out, try power cycling the projector. If the lamp doesn't fire or if you hear it make a loud pop, the projector will not turn on until the lamp module has been replaced.

6. SPECIFICATIONS

6.1 Inputs

Signal Type	Resolution	Frame Rate (Hz)	HDMI 1	HDMI 2	VGA	Display-Port	BNC	Component	S- video	CVBS
PC	640x480	60	•	•	•	•	•			
	640x480	75	•	•	•	•	•			
	640x480	85	•	•	•	•	•			
	800x600	60	•	•	•	•	•			
	800x600	75	•	•	•	•	•			
	800x600	85	•	•	•	•	•			
	1024x768	60	•	•	•	•	•			
	1024x768	75	•	•	•	•	•			
	1024x768	85	•	•	•	•	•			
	1280x768	60	•	•	•	•	•			
	1280x800	50	•	•	•	•	•			
	1280x800	60	•	•	•	•	•			
	1280x1024	60	•	•	•	•	•			
	1280x1024	75	•	•	•	•	•			
	1280x1024	85	•	•	•	•	•			
	1400x1050	60	•	•	•	•	•			
	1600x1200	60	•	•	•	•	•			
	1680x1050	60			•	•	•			
	1920x1200RB*	60	•	•	•	•	•			
	1920x1200RB*	50	•	•	•	•	•			
NTSC	NTSC (M, 4.43)	60							•	•
PAL	PAL (B,G,H,I)	50							•	•
	PAL (N)	50							•	•
	PAL (M)	60							•	•

NOTE:

❖ "RB" means "reduced blanking".

Signal Type	Resolution	Frame Rate (Hz)	HDMI 1	HDMI 2	VGA	Display-Port	BNC	Component	S-video	CVBS
SECAM	SECAM (M)	50							•	•
EDTV	480p	60	•	•	•	•	•	•		
	576p	50	•	•	•	•	•	•		
HDTV	1080i	60	•	•	•	•	•	•		
	720p	50	•	•	•	•	•	•		
	720p	60	•	•	•	•	•	•		
	1080p	24	•	•	•	•	•	•		
	1080p	25	•	•	•	•	•	•		
	1080p	30	•	•	•	•	•	•		
	1080p	50	•	•	•	•	•	•		
	1080p	60	•	•	•	•	•	•		

6.2 PIP/PBP Compatibility

Main PIP/PBP	HDMI 1	HDMI 2	Display-Port	VGA	BNC	Component	S-video	Composite	RJ45	USB type B (mini)	USB type A
HDMI 1		•	-	-	•	-	•	•	•	•	•
HDMI 2	•		•	•		•					
DisplayPort	-	•	-	-	•	-	•	•	•	•	•
VGA	-	•	-	-	•	-	•	•	•	•	•
BNC	•	-	•	•	-	•	-	-	-	-	-
Component	-	•	-	-	•	-	•	•	•	•	•
S-video	•	-	•	•	-	•	-	-	-	-	-
Composite	•	-	•	•	-	•	-	-	-	-	-
RJ45	•	-	•	•	-	•	-	-	-	-	-
USB type B (mini)	•	-	•	•	-	•	-	-	-	-	-
USB type A	•	-	•	•	-	•	-	-	-	-	-

• : PIP/PBP combinations are enabled

- : PIP/PBP combinations are disabled

6.3 Key Features

- HD 0.65" 1920 × 1080 resolution or WUXGA 0.67" 1920 × 1200 resolution
- Projection lens compatibility:
 - Horizontal offset ranges: +/-20%
 - Vertical offset ranges: +120%/-40% (WUXGA) and +134%/-40% (HD)
 - Exception: 0.8:1 lens must be used on axis.
- **NOTE:**
 - ❖ *Measurements are based on industry standards where offset is calculated as a ratio of the number of pixels shifted up/down to half the image size.*
- Dynamic aperture enabled (full white to full dark contrast ratio): 5000:1 (Nominal)
- Dual Processor Warp Module for edge blending and geometric correction. (Optional)
- Wireless desktop display using wireless dongle (optional)
- SNMP traps and e-mail notifications
- Dual mercury lamp illumination with 330W (DWU/DHD675-E) & 350W (DWU/DHD775-E)
- 10-bit image processor electronics with modular design
- All video formats can be resized to full screen either horizontally or vertically while maintaining aspect ratio
- The projector can be operated using any of the following:
 - The built-in keypad, an infrared (IR) remote control, a wired remote control, a PC/device using serial communications (Ethernet or RS232)
 - A Web page via Ethernet or from a PC/device via a wireless USB dongle. (Optional)
- Weight:
 - Maximum product weight (with lens removed): 19.5kg (43lb.)
 - Maximum shipping weight (includes packaging): 28kg (62lb.)
- Built-In keypad

6.4 List of Components

This projector comes with all the items shown below. Check to make sure your package is complete. Contact your dealer if anything is missing.

- IR remote control (133-114117-01)
- Power cord x 4
 - UK/Korea/Russia
 - North America
 - Europe
 - Japan
- DVI to HDMI dongle
- User manual (CD)

NOTE:

❖ Due to the difference in applications for each country, some regions may have different accessories.

6.5 Optional Accessories

- Ceiling mount (optional accessory) (133-106108-XX)
- Ceiling mount extension rod (104-101001-XX)
- Fixed Lens (optional accessory):
 - Lens 0.8:1 Fixed Short (Zero offset) (133-100102-XX)
- Zoom Lenses x 4 (optional accessory):
 - Lens 1.2-1.5:1 Fixed Short (133-101103-XX)
 - Lens 1.5-2.0:1 Zoom (133-102104-XX)
 - Lens 2.0-4.0:1 Zoom (133-103105-XX)
 - Lens 4.0-7.0:1 Long Zoom (133-104106-XX)
- 1DWUSB-BGN / Wireless dongle (optional accessory) (133-113106-XX)
- Dual Processor Warp Module (optional accessory) (133-111104-XX)
- Adapter Plate Stacker (optional accessory)(133-107109-02)
- Stacking Frame (optional accessory)(118-100107-01)
- E Series Color Wheel (Color) (optional accessory)(003-003411-01)

6.6 REGULATORY

- Safety
 - CAN/CSA C22.2 No. 60950-1
 - UL 60950-1
 - IEC 60950-1
 - EN60950
- Electro-Magnetic Compatibility
 - Emissions
 - FCC CFR47, Part 15, Subpart B/ICES-003/ANSI C63.4, Class A – Unintentional Radiators
 - AS/NZS CISPR 22/EN55022 Class A - Information Technology Equipment
 - EN 61000-3-2
 - EN 61000-3-3
 - Immunity
 - EN55024 EMC Requirements - Information Technology Equipment
 - IEC 61000-4-2
 - IEC 61000-4-3
 - IEC 61000-4-4,
 - IEC 61000-4-5
 - IEC 61000-4-6
 - IEC 61000-4-8
 - IEC 61000-4-11
- Environmental
 - The product conforms to:
 - EU Directive (2002/95/EC) on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment and the applicable official amendment(s).
 - EU Regulation (EC) No. 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH) and the applicable official amendment(s).
 - EU Directive (2002/96/EC) on waste and electrical and electronic equipment (WEEE) and the applicable official amendment(s).
 - China Ministry of Information Industry Order No.39 (02/2006) on the control of pollution caused by electronic information products, the hazardous substances concentration limits (SJ/T11363-2006), and the applicable product marking requirement (SJ/T11364-2006).

- Marking
 - This product shall conform to all relevant Canadian, US, and European directives, standards, safety, health and environmental concerns and bear the following markings at product launch:
 - ▶ UL
 - ▶ CE
 - ▶ RoHS
 - ▶ WEEE
 - Future product markings to include International Certifications: CCC, KC, PSE, c-tick, Gost-R, South Africa
 - International packaging recycling mark requirements:
 - ▶ EU Directive (2002/96/EC) on waste and electrical and electronic equipment (WEEE);
 - ▶ EU Directive (94/62/EC) on packaging and packaging waste;
 - ▶ China packaging recycling mark standard (GB18455-2001).

6.7 Declaration of Conformity for EU Countries

- EMC Directive 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC
- Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC

6.8 Federal Communications Commission (FCC) Warning

⚠ WARNING

- A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.
- Use only shielded signal cables to connect I/O devices to this equipment.

6.9 MENU TREE

Level 1	Level 2	Level 3(Or List)	Level 4(Or List)	Level 5(Or List)	Level 6(Or List)	Default
Size & Position	Size Presets	Auto				Auto
		Native				
		4:3				
		Letterbox				
		Full Size				
		Full Width				
		Full Height				
	Overscan	Off				By source set
		Zoom				
		Crop				
	Pixel Track	0 - 100				50
	Pixel Phase	0 - 100				50
	Horz Position	0 - 100				50
	Vert Position	0 - 100				50
	Digital Horz Zoom	50%-400%				100
	Digital Vert Zoom	50%-400%				100
	Digital Horz Shift	0 - 100				50
	Digital Vert Shift	0 - 100				50
	Geometry Correction	Off (see Note 1)				Off
		Basic	Horz Keystone	0 - 100 (0-20 for GEO model)		50 (10 for GEO model)
			Vert Keystone	0 - 100 (0-20 for GEO model)		50 (10 for GEO model)
			Horz Pincushion	0 - 100		50
			Vert Pincushion	0 - 100		50
			Pincushion/Barrel	0-20		10
			4-Corner	Top Left Horz adjust.	0-160	0
				Top Left Vert adjust.	0-80	0
				Top Right Horz adjust.	0-160	0
				Top Right Vert adjust.	0-80	0
				Bottom Left Horz adjust.	0-160	0
				Bottom Left Vert adjust.	0-80	0
				Bottom Right Horz adjust.	0-160	0
				Bottom Right Vert adjust.	0-80	0
		Curve	Curve	Top Arc	0-400	200
				Bottom Arc	0-400	200
				Left Arc	0-400	200
				Right Arc	0-400	200
			4-Corner	Top Left Horz adjust.	0-160	0
				Top Left Vert adjust.	0-80	0
				Top Right Horz adjust.	0-160	0
				Top Right Vert adjust.	0-80	0
				Bottom Left Horz adjust.	0-160	0
				Bottom Left Vert adjust.	0-80	0
			Rotate	Bottom Right Horz adjust.	0-160	0
				Bottom Right Vert adjust.	0-80	0
				Rotation	0-16	8
				Top Left Horz adjust.	0-160	0
				Top Left Vert adjust.	0-80	0
				Top Right Horz adjust.	0-160	0
Image settings	Auto Image	command				
	Brightness	0 - 100				50
	Contrast	0 - 100				By source set
	Color Space	RGB				Auto
		REC709				
		REC601				
		RGB Video				
		Auto				
	Detail	Maximum				By source set
		High				
		Normal				
		Low				
		Minimum				
	Video Options	Color	0 - 100			50
		Tint	0 - 100			50
		Noise Reduction	0 - 100			0
		Flesh Tone Correction	0 - 100			0
		Video Black Level				
		Detect Film	Off/On			Off
		Closed captions	Off			Off
	Input Levels		cc1			
			cc2			
		Red Gain	0 - 100			50
		Green Gain	0 - 100			50
		Blue Gain	0 - 100			50
		Red Offset	0 - 100			50
		Green Offset	0 - 100			50
		Blue Offset	0 - 100			50
	Picture Settings	Sync Threshold	0 - 100			50
		Reset RGB Gain/Offset	command			
		Presentation				By source set
		Video				
		Bright				
		Whiteboard				
		Blackboard				
		Beige Wall				
		User				
	Save to User	command				
	DynamicBlack	Off / On				Off

Level 1	Level 2	Level 3(Or List)	Level 4(Or List)	Level 5(Or List)	Level 6(Or List)	Default
Image settings	Image Freeze	Off / On				Off
	Advanced Image Settings	Gamma	Video Film Bright CRT			By source set
		BrilliantColor™	Normal Look Bright Look			Bright
		White Peaking	0 - 100			By source set
		Color Temperature	Warmest Warm Cool			By source set
			Bright			
			Off			
		Edge Enhancement	Normal Maximum			Off
		Color Wheel Speed	2X 3X			2X
		Color Enhancement	Off CE 1 CE 2			CE 1
Configuration	Language	SPEC define				English
	Lens settings	Focus	command			
		Zoom	command			
		Lens Shift	command			
		Lock all Lens Motors	Allow Locked			Allow
		Lens center calibration	command			
	Ceiling Mount	Off/On/Auto				Auto
	Rear Projection	Off/On				Off
	Menu Preferences	Menu Horz Offset	0 - 100			0
		Menu Vert Offset	0 - 100			0
		Show Messages	off/on			on
		Menu Transparency	0 - 90			0
		Splash Screen Setup	Factory Logo Blue Black White			Factory Logo
		PIN Protect	command			
		Change PIN	command			
	Power Management	Standby Mode	0.5 W mode Communication mode			Communication mode
		AC Power On	off/on			off
		Auto shutdown	Never 5 Mins 10 Mins 15 Mins 20 Mins 25 Mins 30 Mins			Never
		Sleep Timer	Off 2 Hrs 4 Hrs 6 Hrs			Off
	High Altitude	Off/On				Off
	Communications	LAN	DHCP IP Address Subnet Mask Default Gateway MAC Address			by set
		WLAN	Enable Start IP End IP Subnet Mask Default Gateway MAC Address SSID Password			by set
		Network	Projector Name Show Network Messages Restart Network... Network Factory Reset...			by set
		Serial Port Baud Rate	2400 4800 9600 14400 19200 38400 57600 115200 1200			115200
		Serial Port Echo	Off/On			Off
		Projector Address	0 - 9			0
	Image Blending	Blending	On/Off			Off
		Marker	On/Off			Off
		Grid	Off/White/Red/Green/Blue			Off
		Solid Color	Off/White/Red/Green/Blue			Off
		Overlap	Top Bottom Left Right	0... % Output Height(Pixel) 0... % Output Height 0... % Output Width 0... % Output Width		0 0 0 0
		Bright Adj.	Blending Area offset non-Blending Area Offset	0-2000 0-2000		1000 1000

Level 1	Level 2	Level 3(Or List)	Level 4(Or List)	Level 5(Or List)	Level 6(Or List)	Default
Configuration	Image Blending	Drop Off Curve	70-300			100
		Image Gamma	1.8/2.0/2.2/2.4/2.6			2.2
	Color Matching	Meter Adjustment	Enable	On/Off		Off
			Auto Test Pattern	On/Off		On
			Intensity of Red	100 - 10000		453
			x of Red	0.300 - 0.700		0.633
			y of Red	0.300 - 0.500		0.356
			Intensity of Green	100 - 10000		2137
			x of Green	0.300 - 0.400		0.352
			y of Green	0.400 - 0.700		0.572
			Intensity of Blue	100-10000		239
			x of Blue	0.100 - 0.300		0.140
			y of Blue	0.030 - 0.400		0.093
			Intensity of White	100-10000		9219
			x of White	0.200 - 0.400		0.331
			y of White	0.200 - 0.400		0.380
			Reset to Default	Yes/No		
		Target Data	Gain of Red	0.200 - 1.000		1.000
			x of Red	0.300 - 0.700		0.643
			y of Red	0.300 - 0.500		0.344
			Gain of Green	0.200 - 1.000		1.000
			x of Green	0.300 - 0.400		0.329
			y of Green	0.400 - 0.700		0.544
			Gain of Blue	0.200 - 1.000		1.000
			x of Blue	0.100 - 0.300		0.141
			y of Blue	0.030 - 0.400		0.094
			Gain of White	0.200 - 1.000		1.000
			x of White	0.200 - 0.400		0.334
			y of White	0.200 - 0.400		0.371
			Reset to Default	Yes/No		
	Hot-Key settings	Manual Adjustment	Enable	On/Off		Off
			Auto Test Pattern	On/Off		On
			Red Part of Red	0 - 1000		1000
			Green Part of Red	0 - 1000		0
			Blue Part of Red	0 - 1000		0
			Green Part of Green	0 - 1000		1000
			Red Part of Green	0 - 1000		0
			Blue Part of Green	0 - 1000		0
			Blue Part of Blue	0 - 1000		1000
			Red Part of Blue	0 - 1000		0
			Green Part of Blue	0 - 1000		0
			Red Part of White	0 - 1000		1000
			Green Part of White	0 - 1000		1000
			Blue Part of White	0 - 1000		1000
			Reset to Default	Yes/No		
	Service	Projector Info	Model Name			
			Serial Number			
			Native Resolution			
			Firmware			
			Configuration			
			Boot Code			
			Standby Mode			
			Lens Lock Settings			
			Color wheel Index			
			FactoryReset...	command		
			Grid			
			White			
			Black			
			Checkerboard			
			Color Bars			
			Red			
			Green			
			Blue			
			Yellow			
			Magenta			
			Cyan			
			Color wheel Index (2x)	TBD		
			Color wheel Index (3x)	TBD		
			Error log	Show log		
			Clear log			
			Mode Adjustment			
Lamp	Lamp mode	Constant Power/Constant Intensity				Constant Power
	Current Lamp	Lamp 1 Lamp 2 Both				Both
	Eco Mode	Lamp 1 Lamp 2 Auto				Off
	Lamp Auto Switch	On Failure Only				On Failure Only

Level 1	Level 2	Level 3(Or List)	Level 4(Or List)	Level 5(Or List)	Level 6(Or List)	Default
Lamp	Lamp Auto Switch	At Power-Up After (N) Hours				On Failure Only
	Lamp Auto Switch Time (Hours)	5 - 3000				100
	Lamp Info	Lamp 1 Hours				
		Lamp 2 Hours				
		Total Hours All Lamps				
		Lamp 1 Reset				
Status	Lamp 2 Reset					
	Lamp Life Setting	xxxxx				1500 hrs
	Reset Lamp Hours...	command				
	Light Sensor (see Note 6).	Light Sensor Calibration Calibrated?	command (display Yes/No)			
	Model Name					
	Serial Number					
	Native Resolution					
	Firmware					Vxx, Ayy, Bzz
	Main Input					
	Main Signal Format					
	Main Pixel Clock					
	Main Sync Type					
	Main Horz Refresh					
	Main Vert Refresh					
	PIP/PBP Input					
	PIP/PBP Signal Format					
	PIP/PBP Pixel Clock					
	PIP/PBP Sync Type					
	PIP/PBP Horz Refresh					
	PIP/PBP Vert Refresh					
	Lamp Power Settings					
	Current Lamp					
	Lamp 1 Hours					
	Lamp 2 Hours					
	Standby Mode					
	Lens Lock Settings					
	IP Address					
	DHCP					
	System Temperature					
Input Switching & PIP	Main Input	SPEC define				
	PIP/POP Input	SPEC define				
	PIP/POP Enable	OFF ON				OFF
	Swap					
	Size	(Small/Medium/Large)				
	Main Layout	(PBP, Main Left / PBP, Main Top / PBP, Main Right / PBP, Main Bottom / PIP-Bottom Right / PIP-Bottom Left / PIP-Top Left / PIP-Top Right)				
	Timing Detection Mode	Normal Wide				Wide
	Source Info	Active Source				
		Signal Format				
		Aspect Ratio				
		Resolution				
		Vert Refresh				
		Horz Refresh				
		Pixel Clock				
		Sync Type				
	Enable source Hot-Key	Color Space				
		PIP/POP <PIP/POP source lines>	(When PIP/POP active) (When PIP/POP active)			
		ON OFF				ON
	Source Hot-Key	VGA				Key number 1
		BNC				Key number 2
		HDMI 1				Key number 3
		HDMI 2				Key number 4
		Display Port				Key number 5
		Component				Key number 6
		S-Video				Key number 7
		Composite				Key number 8
		Christie Presenter				Key number 9
		Card Reader				Key number 0
	Input key	Mini USB				Off
		Change Sources				Auto Source
		List all Sources Auto Source				
Language	SPEC define					English
Test pattern	Off					
	Grid					
	White					
	Black					
	Checkerboard					
	Color Bars					

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