User Manual

020-001213-02

GS Series DHD630-GS / DWU630-GS DHD635-GS / DWU635-GS



The USB 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 U 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 clé USB 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.

Das USB, das mit diesem gedruckten Handbuch eingeschlossen ist, enthält eine elektronische Kopie auf in deutscher Sprache. Vor der Anwendung oder der Instandhaltung dieses Produktes lesen Sie bitte alle Anweisungen.

Il USB 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 USB 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。

매뉴얼과 함께 포함되어 있는 USB 에는 한글로 된 전자사본을 포함하고 있습니다 . 본 제품을 사용 혹은 서비스하기 전에 모든 지침 사항들을 읽어 보시기 바랍니다 .

Поставляемый в комплекте с документацией USB содержит электронную копию руководства пользователя на русском языке. Перед началом использования изделия или проведения сервиса пожалуйста прочтите все инструкции изложенные в руководстве.

El USB 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.

USB, що постачається з цим друковане керівництво містить електронну копію українською мовою. Будь ласка, прочитайте всі інструкції перед використанням або обслуговуванням цього продукту.

O USB incluído com o impresso livro contém um eletrônico cópia em Português. Por favor lido todas as instruções antes de usar ou prestando serviço esse resultado.

NOTICES

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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. Canadian manufacturing facility is ISO 9001 and 14001 certified.

WARRANTY

Products are warranted under Christie's standard limited warranty, the complete details of which are available by contacting your Christie dealer or Christie. In addition to the other limitations that may be specified in Christie's standard limited warranty and, to the extent relevant or applicable to your product, the warranty does not cover:

- a. Problems or damage occurring during shipment, in either direction.
- b. Problems or damage caused by combination of a product with non-Christie equipment, such as distribution systems, cameras, DVD players, etc., or use of a product with any non-Christie interface device.
- c. Problems or damage caused by misuse, improper power source, accident, fire, flood, lightning, earthquake, or other natural disaster.
- d. Problems or damage caused by improper installation/alignment, or by equipment modification, if by other than Christie service personnel or a Christie authorized repair service provider.
- e. Problems or damage caused by use of a product on a motion platform or other movable device where such product has not been designed, modified or approved by Christie for such use.
- f. Except where the product is designed for outdoor use, problems or damage caused by use of the product outdoors unless such product is protected from precipitation or other adverse weather or environmental conditions and the ambient temperature is within the recommended ambient temperature set forth in the specifications for such product.
- g. Defects caused by normal wear and tear or otherwise due to normal aging of a product.

The warranty does not apply to any product where the serial number has been removed or obliterated. The warranty also does not apply to any product sold by a reseller to an end user outside of the country where the reseller is located unless (i) Christie has an office in the country where the end user is located or (ii) the required international warranty fee has been paid.

The warranty does not obligate Christie to provide any on site warranty service at the product site location.

PREVENTATIVE MAINTENANCE

Preventative maintenance is an important part of the continued and proper operation of your product. Failure to perform maintenance as required, and in accordance with the maintenance schedule specified by Christie, will void the warranty.

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.

CAN ICES-3 (A) / NMB-3 (A)

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

Environmental

The product is designed and manufactured with high-quality materials and components that can be recycled and reused. **This symbol** $\underline{\mathbb{X}}$ 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!

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Safety

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



Warning! Failure to comply with the following could result in death or serious injury.

- Do not look into the projector lens when the laser 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 you turn the projector off, wait 180 seconds for the projector to cool down before you disconnect the projector from power.
- 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.
- 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.

Laser safety warnings

This product is classified as CLASS 1 LASER PRODUCT - RISK GROUP 2 according to IEC 60825-1 : 2014 complies with FDA regulations 21 CFR 1040.10 and 1040.11 as a Risk Group 2 , LIP (Laser Illuminated Projector) as defined in IEC 62471:2006 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

	es with 21 CFR 1040.10 and 1040.1 for deviations pursuant to Laser N			s defined in IEC 62471:2006
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CAUTION	AVERTISSEMENT	注意	주의	注意
Possibly hazardous optical radiation emitted from this product. Do not stare at beam. May be harmful to the eye.	Radiation optique à danger potentiel émise parceproduit. Ne regardez pasdirectement le faisceau laser. Ceci pourrait être nocif pour votre oeil.	此产品可能会产生危 险光辐射。请勿直视 操作光束,以免对眼 睛损害。	이 제품으로부터 인체에 위해한 광선이 방사될 수 있음, 광원을 정면으로 바라보지 마시오, 눈에 심각한 손상을 입을 수 있음.	本製品より危険となり うる光放射あり。ビー ムをのぞき込まないこ と。 眼に有害となる可 能性あり。





Warning! Failure to comply with the following could result in death or serious injury.

- This projector has a built-in Class 4 laser module. Never attempt to disassemble or modify the projector.
- Any operation or adjustment not specifically instructed in the User manual creates the risk of hazardous laser radiation exposure.
- Do not open or disassemble the projector as this may cause damage or exposure to laser radiation.
- Do not stare into beam when the projector is on. The bright light may result in permanent eye damage.
- When turning on the projector, make sure no one within projection range is looking into the lens.
- Follow the control, adjustment, or operation procedures to avoid damage or injury from exposure of laser radiation.
- The instructions for the assembly, operation, and maintenance include clear warnings concerning precautions to avoid possible exposure to hazardous laser radiation.

CHkiSTIE[®]

Introduction

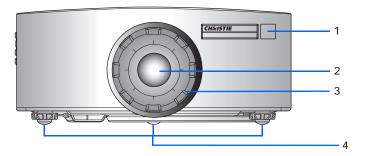
The product specified in this document is a high brightness, high-resolution video/graphics 1-chip laser based projector. The projector is available in HD and WUXGA resolutions. The projector utilizes Digital Light Processing (DLP[®]) technology from Texas Instruments. It is primarily designed for fixed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

Projector components

Identify the main components of the projector.

Front view

Identify the main components on the front of the projector.

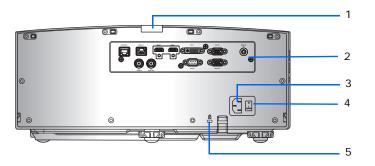


ID	Part name	Description	
1	Front IR sensors	Receives signals from the IR remote keypad. Keep the signal path to the sensor unobstructed for uninterrupted communication with the projector.	
2	Projection lens	Allows automated lens control and adjustment: vertical and horizontal offsets, zoom, and focus.	
3	Lens ring	Protects the lens motors and mechanism. Remove in order to insert or remove lens.	
4	Adjustable feet	Raises or lowers the feet to level the projector.	



Rear view

Identify the main components on the rear of the projector.

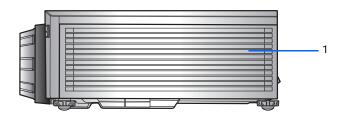


ID	Part name	Description
1	Rear IR sensor	Receives signals from the IR remote keypad. Keep the signal path unobstructed for uninterrupted communication with the projector.
2	Input/Output (I/O) panel	Connects the projector to external devices.
3	AC input	Connects to the supplied power adapter (100-240V~).
4	Power button	Powers the projector on or off.
5	Kensington security slot	Secures the projector to help prevent theft or unauthorized removal.



Left view

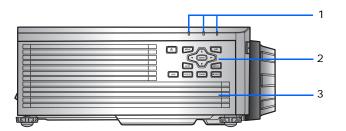
Identify the main components on the left side of the projector.



ID	Part name	Description	
1	Cooling air vents (intake)	Provides cooling to the projector. Keep these vents unobstructed to prevent the projector from overheating.	

Right view

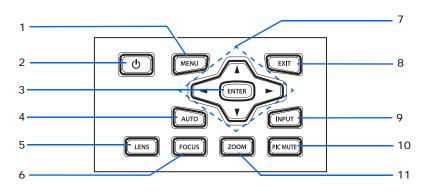
Identify the main component on the right side of the projector.



ID	Part name	Description
1	LED Status Indicators	Displays the status of the projector. They are (from left to right): LIGHT, STATUS, and PICTURE MUTE.
2	Built-in keypad	Controls the projector.
3	Cooling air vents (exhaust)	Provides cooling to the projector. Keep these vents unobstructed to prevent the projector from overheating.

Built-in keypad

The built-in keypad controls the projector.

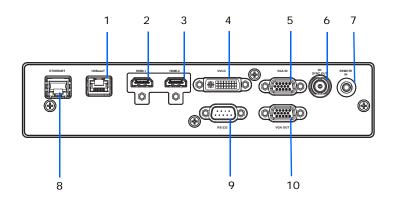


ID	Part name	Description
1	Menu	Displays the menus.
2	Power	Turns the projector on or off.
3	Enter	Confirms a selection.
4	Auto	Automatically optimizes an image.
5	Lens	Adjusts the lens vertical or horizontal offset setting.
6	Focus	Adjusts the focus.
7	Arrow keys	Adjusts a setting up or down, or navigate within a menu.
8	Exit	Returns to the previous level or exits the menus if at top level.
9	Input	Selects an input for the main or PIP/PBP image.
10	Picture mute	Displays or blanks the video image.
11	Zoom	Adjusts the zoom.

Input/Output (I/O) panel

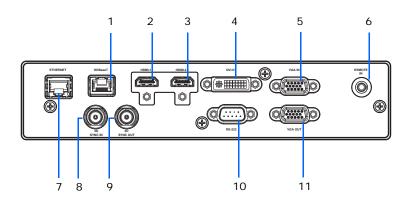
Identify the components of the Input/Output (I/O) panel.

DWU630-GS/DHD630-GS Series



ID	Connector name	ID	Connector name
1	HDBaseT	6	3D SYNC OUT
2	HDMI-1	7	REMOTE IN
3	HDMI-2	8	ETHERNET (LAN)
4	DVI-D	9	RS-232
5	VGA IN	10	VGA OUT

DWU635-GS/DHD635-GS Series

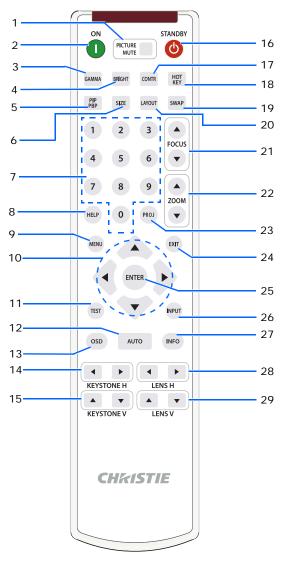


ID	Connector name	ID	Connector name
1	HDBaseT	7	ETHERNET (LAN)
2	HDMI-1	8	3D SYNC IN
3	HDMI-2	9	3D SYNC OUT
4	DVI-D	10	RS-232
5	VGA IN	11	VGA OUT
6	REMOTE IN		

IR remote keypad

The IR remote keypad communicates with the projector by way of wireless communications.

Use a cable length of 20 m or less. If the length of cable exceeds 20 m, the IR remote keypad may not work correctly.



ID	Button	Description
1	PICTURE MUTE	Displays or blanks the video image.
2	ON	Turns the projector on.
3	GAMMA	Adjusts the mid-range levels.
4	BRIGHT	Adjusts the amount of light in the image.
5	PIP/PBP	Turns PIP/PBP on or off.

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ID	Button	Description		
6	SIZE	Adjusts the PIP/PBP size.		
7	Number Keys	Enters a number, such as a channel, value, and so on. The on-screen display indicates if a function is not supported.		
8	HELP	Displays the instructions for source connection.		
9	MENU	Displays the menus.		
10	Arrow Keys	Adjusts a setting up or down to navigate within a menu.		
11	Test	Displays a test pattern.		
12	AUTO	Automatically optimizes an image.		
13	OSD	Uses to hide or shows on-screen display (OSD) menus.		
14	KEYSTONE H	Adjusts the horizontal keystone.		
15	KEYSTONE V	Adjusts the vertical keystone.		
16	STANDBY	Turns the projector off.		
17	CONTR	Adjusts the difference between dark and light.		
18	ΗΟΤ ΚΕΥ	Selects your preset key quickly.		
19	SWAP	Swaps the main and PIP/PBP images.		
20	LAYOUT	Adjusts the PIP/PBP layout.		
21	FOCUS	Adjusts the focus to improve image clarity as required.		
22	ZOOM	Adjusts the zoom to achieve a required image size.		
23	PROJ	Changes the IR remote keypad ID.		
		• To assign an ID, press Proj + <1 to 9>.		
		• To return to the universal IR remote ID, press Proj + 0 .		
24	EXIT	Returns to previous level or exit menus if at top level.		
25	ENTER	Selects a highlighted menu item, or changes or accepts a value.		
26	INPUT	Selects an input for the main or PIP/PBP image.		
27	INFO	Displays the source image information.		
28	LENS H	Adjusts the position of the image horizontally.		
29	LENS V	Adjusts the position of the image vertically.		

LED status indicators

LEDs are defined below.

Light LED

Identify the laser diode state colors and meaning.

LED status	Projector state
Red (flashing)	Projector has lost over 60% initial luminance.
Orange (solid)	Laser diode time has expired.
Green (solid)	Laser diode is on and operating correctly.
Off	Laser diode is off.

Status LED

Identify the LED state colors and meaning.

LED status	Projector state
Off	AC power is off (without AC plugged in).
Off, but keypad LED is on	AC has been applied, projector is in standby mode. NOTE: Status LED cannot be flashing red, as this is reserved for an error condition. Status LED is off but keypad LED will indicate Standby Mode.
Green (solid)	Projector is powered up and operating normally.
Green (flashing)	Projector communications.
Orange (flashing)	Projector is in cool down mode or startup mode.
Green (flashing) / Orange (solid)	Projector is in flash update state.
Red (solid)	Over-temperature.
Red (flashing)	Fan failure.

Picture Mute LED

Identify the picture mute LED state colors and meaning.

LED status	Projector state
Green (solid)	Light is on and an image is displayed.
Orange (solid)	Light is on and the image is blank.

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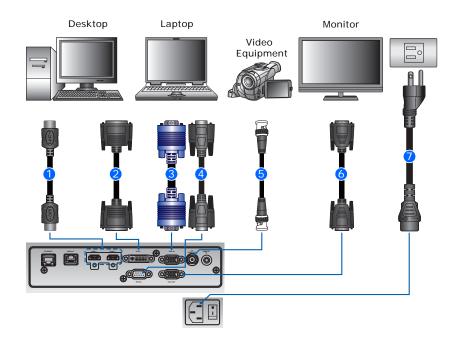
Installation

Learn how to install, connect, and optimize the projector display.

Connecting to a computer

Learn what cables/connectors that may be used to connect to various devices.

DWU630-GS/DHD630-GS Series

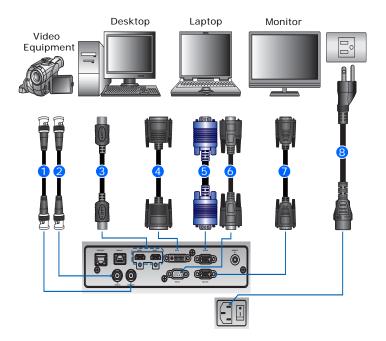


ID	Connector name	ID	Connector name	ID	Connector name
1	HDMI cable	4	RS-232 cable	7	Power cord
2	DVI-D cable	5	3D sync out cable		
3	VGA in cable	6	VGA out cable		



- Due to the difference in applications for each country, the accessories required in some regions may differ from those shown.
- This diagram is for illustrative purposes only, and does not indicate that these accessories are supplied with the projector.

DWU635-GS/DHD635-GS Series



ID	Connector name	ID	Connector name	ID	Connector name
1	3D sync out cable	4	DVI-D cable	7	VGA out cable
2	3D sync in cable	5	VGA in cable	8	Power cord
3	HDMI cable	6	RS-232 cable		



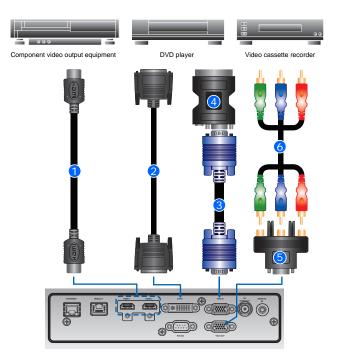
• Due to the difference in applications for each country, the accessories required in some regions may differ from those shown.

• This diagram is for illustrative purposes only, and does not indicate that these accessories are supplied with the projector.

Connecting to video equipment

Learn what cable/connectors may be used to connect to various devices.

DWU630-GS/DHD630-GS Series



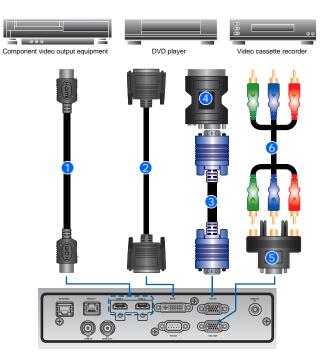
ID	Connector name	ID	Connector name	ID	Connector name
1	HDMI cable	3	VGA in cable	5	15-pin to 3 RCA Component/HDTV Adapter
2	DVI-D cable	4	VGA to Component	6	3 RCA Component cable



• Due to the difference in applications for each country, the accessories required in some regions may differ from those shown.

• This diagram is for illustrative purposes only, and does not indicate that these accessories are supplied with the projector.

DWU635-GS/DHD635-GS Series



ID	Connector name	ID	Connector name	ID	Connector name
1	HDMI cable	3	VGA in cable	5	15-pin to 3 RCA Component/HDTV Adapter
2	DVI-D cable	4	VGA to Component	6	3 RCA Component cable



• Due to the difference in applications for each country, the accessories required in some regions may differ from those shown.

• This diagram is for illustrative purposes only, and does not indicate that these accessories are supplied with the projector.

Turning the projector on

The projector cables must be securely connected before turning the power on.



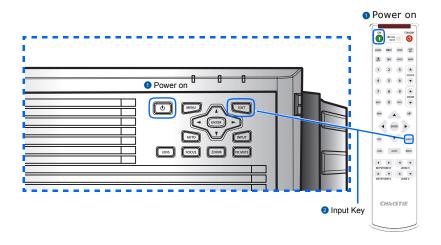
Warning! Failure to comply with the following could result in death or serious injury.

- Do not look into the projector lens when the laser is on. The bright light may result in permanent eye damage
- 1. Connect the projector power cables to AC power.

The Power button on the keypad is illuminated when the power cables are connected.

- 2. Ensure the lens has been installed in the projector.
- 3. Ensure that no one or no objects are in the beam path before turning on the projector.
- 4. To turn on the projector, on the IR remote keypad press ⁽¹⁾ or on the built-in keypad press ⁽¹⁾.
 The status LED is orange with a long blink. ●
- To select an input source and turn it on, on the IR remote keypad select Input.
 Available input sources are VGA, HDMI, DVI, and HDBaseT.

The projector detects the source you selected and displays the image.



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The first time the projector is used, select the preferred language from the Main Menu after the startup screen is displayed.

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Turning the projector off

Power off the projector in preparation for inspection or maintenance.

1. To turn the projector off, on the IR remote keypad or built-in keypad press **U**.

A warning message appears on the displayed image.

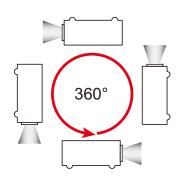
2. To confirm your selection, press **U** again.

If you do not press **()** again, the warning message disappears after three seconds and the projector remains on.

Adjusting 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 (0.9 m) from the projection screen.
- Position the projector to the required 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.
- Determine the lens throw ratio:
 - Lens 1.22~1.53 (WU/HD)
 - Lens 0.95~1.22 (WU/HD)
 - Lens 1.52~2.89 (WU/HD)
 - Lens 0.75~0.95 (WU/HD)
 - Lens 2.90~5.50 (WU/HD)
- 360 degree operation (along the widest axis)



Calculating the lens offset

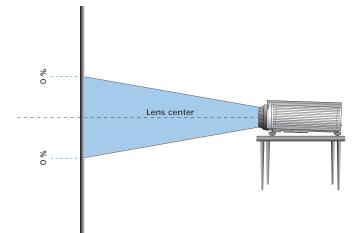
Adjust the offset to align the image on the screen with half image size.

- The vertical image offset (shift) ranges for the projector are +/-100% (WUXGA) and +/-120% (HD).
- The horizontal image offset (shift) range for the projector are +/-30% (HD/WUXGA).
- The method for calculating lens offset complies with industry standards. For example for vertical lens offset:
 - At 0% offset (or on axis), the center of the image is on the lens center, so half of the image appears above and half appears below the lens center.
 - At +100% offset, the entire image appears above the lens center.
 - The percentage (%) offset is calculated as the ratio of the number of pixels shifted up or down to half image size.

WUXGA projectors

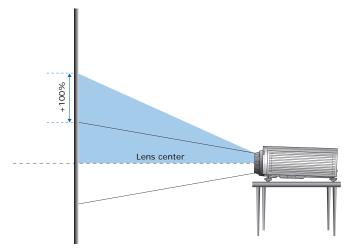
The following show vertical and horizontal image offsets for the WUXGA projectors:

• Vertical image offset: 0%

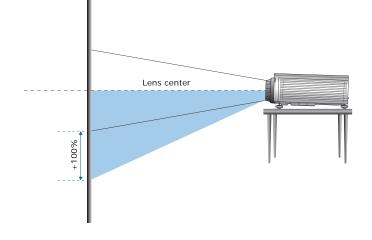




• Vertical image offset: +100%

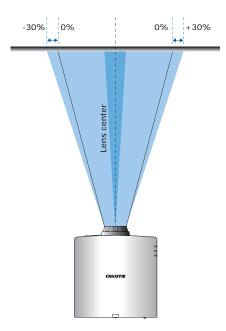


• Vertical image offset: -100%



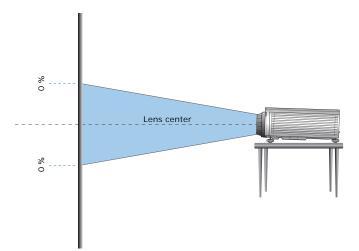


Horizontal image offset: +/-30%



HD Projectors

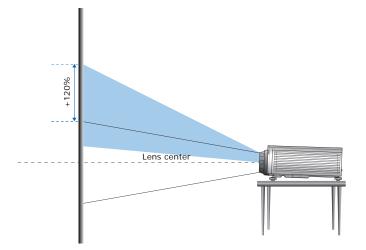
The following show vertical and horizontal image offset for HD projectors:



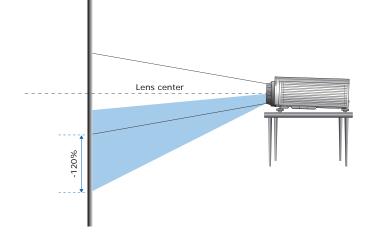
• Vertical image offset: 0%



• Vertical image offset: +120%

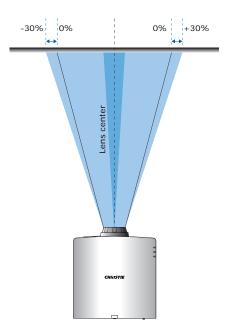


• Vertical image offset: -120%





Horizontal image offset: +/-30%



Removing and installing the lens



Warning! Failure to comply with the following could result in death or serious injury.Turn off the projector and remove the power cord, before installing or replacing a lens.

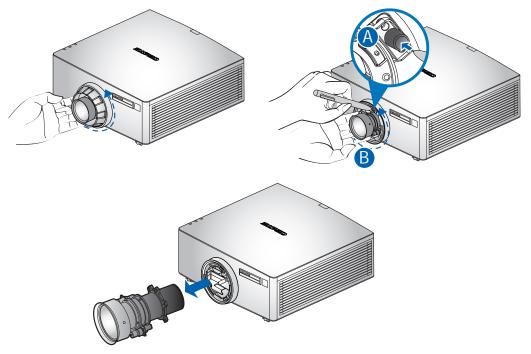
When handling the projector after lens installation, make sure the front lens cap is placed on the lens to protect the lens surface from potential damage. When carrying or moving the projector, do not handle by the lens. This may damage the lens, the chassis, or other mechanical parts within the projector.

1. Center the lens. Ensure the lens is at or near its center position. Attempting to remove the lens with 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 **Lens Vertical** button and then pressing **Enter**.

- 2. Turn off the projector.
- 3. Allow the projector to cool down into standby mode before replacing the lens.
- 4. After the projector has cooled down and prior to replacing the lens, remove the power cord.
- 5. To remove the lens, remove the lens ring cover first. Then press the **Lens Release button** (a) with a tool and rotate the lens counterclockwise by a quarter (b) to release the lock.

Remove the lens through the front of the projector.



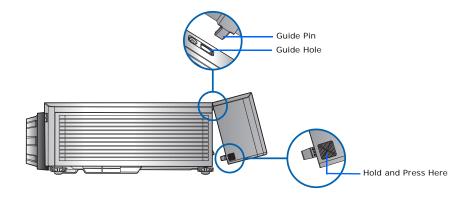
6. To install the new lens, fully insert the lens assembly straight into the lens mount without turning. Rotate the lens cap clockwise to lock the lens in place.



Notice. For ultra short throw lens installation information, refer to the *Ultra short throw lens installation instruction sheet (P/N: 020-102569-XX)*.

Installing the cable cover

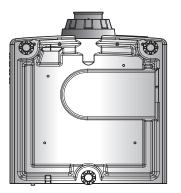
- 1. Rotate the cable cover and insert the two guide pins into the guide holes.
- 2. Press and hold both lower corners of the cable cover while inserting the sheet clips into the projector casing.



Installing the ceiling mount

Mount the projector with a Christie-approved mount, using the four mounting points on the underside of the projector.

See List of components on page 77.



1. Refer to the installation instructions and safety guidelines provided in the kit.

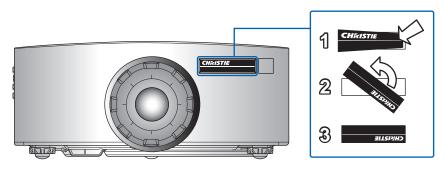
See List of components on page 77.



Rotating the Christie badge

The Christie magnetic badge on the front panel of the projector can be rotated for inverted installation.

- 1. Push on the edge of the badge to release it from its slot on the front panel.
- 2. Rotate the badge 180 degrees.
- 3. Push the badge back into its slot on the front panel. Make sure the badge is properly seated inside the slot.



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Operation

The projector has multilingual on-screen display (OSD) menus so you can make image adjustments and change a variety of settings.

Most of the projector controls are accessed from within the projector menu system. Several groups of related functions are selectable from the Main menu as shown below.

- 1. To display the Main menu, on the IR remote keypad or on the built-in keypad on the right side of the projector, press **MENU**.
- 2. To navigate within the menu and adjust a setting up or down, use the arrow keys.
- 3. To select a highlighted menu item or use it to change or accept a value, press **ENTER**.

You can then select the next item that you want to adjust in the menu and adjust it.

4. To exit menus if at top level, press **EXIT**.

Picture menu

The Picture menu sets the picture settings, wall color, and other settings for images.



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Menu item	Description	Options
Picture Settings	Optimizes the projector for displaying images under certain conditions. It affects the following: Gamma Sharpness White Peaking Overscan Brightness Contrast Color Tint Red Gain Green Gain Blue Gain Red Offset Blue Offset	 Bright Presentation Film REC709 Blending DICOM SIM. User
Wall Color	Sets the wall color so that the projector can enhance the color performance customized for the specific wall.	• White • Gray 130
Brightness	Adjusts the intensity of the image.	0-100
Contrast	Adjusts the degree of difference between the lightest and darkest parts of the image and changes the amount of black and white in the image.	0-100
Sharpness	Adjusts the edge clarity of the image.	0-10
Color	Adjusts a video image from black and white to fully saturated color. (Video sources only).	0-100
Tint	Adjusts the red-green color balance in the image of NTSC video images. (NTSC video sources only).	0-100
Gamma	Adjusts the mid-range levels.	 Video Film Bright CRT DICOM
White Peaking	Increases the brightness of whites near 100%.	0-100
Color Temp	Changes the intensity of the colors. Select a listed relative warmth value.	• Warm • Bright • Cool



Menu item	Description	Options
Color Wheel Speed	Selects the color wheel speed from 2x or 3x. The color wheel speed defines the delay between the color wheel and the DMD. The higher the speed, the less rainbow effect on the screen.	• 2x • 3x
HSG Adjustment	For more information on HSG adjustment, see <i>HSG Adjustment</i> on page 37.	 Red Green Blue Cyan Magenta Yellow White Gain
Contrast Enhancement	Enables or disables the contrast enhancement function. Enable this function to raise the contrast ratio.	 Off Dynamic Black—Auto adjusts the contrast ratio for video contents. Real Black—Reduces the black level for dark images to raise the contrast ratio.
Color Space	Selects a color space specifically tuned for the input signal. Only useful for analog signals and certain digital sources.	 Auto RGB(0~255) RGB(16~235) YUV

HSG Adjustment

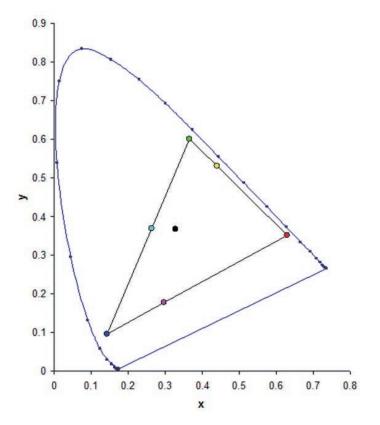
Hue, Saturation, and Gain (HSG) software controls the color regions R, G, B, C, M, Y, and W independently.

1. Select **Picture** > **HSG Adjustment**.

Hue

Note the following about adjusting hue:

- Adjust the hue independently for each color (R,G,B,C,M, and Y).
- White does not have a hue input.
- A negative hue input provides a clockwise rotation of the color's hue.
- A positive hue input provides a counter-clockwise rotation of the color's hue.
- A zero input does not change the hue of the color.



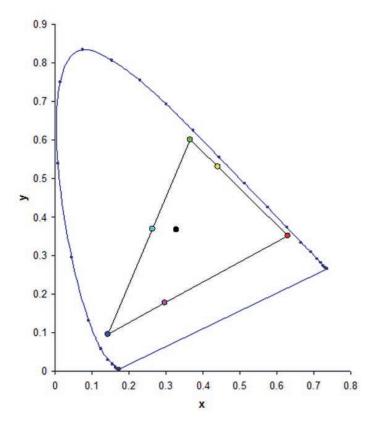
Saturation

Note the following about adjusting saturation:

- The saturation can be adjusted independently for each color (R,G,B,C,M, and Y).
- A saturation level of 0 removes all color from that region.
- A saturation level of 254 sets the color region to have maximum color.



• A saturation level of 127 does not change the saturation.



Gain

Note the following about adjusting gain:

- The gain can be adjusted independently for each color (R,G,B,C,M,Y, and W).
- The range of input is 0 to 254.
- The gain changes the intensity level of the respective color.
- A gain level of 127 disables the HSG controls for that color.
- A gain level less than 127 darkens the respective color.
- A gain level of 254 sets the color region to have maximum gain; however, clipping occurs on the signal.
- A gain of 127 is the nominal setting.
- White provides three gain level controls, one each for the R,G,B component of white.



Image blending

Adjust blend widths and settings to left, right, top and/or bottom sides to create a seamless multiprojector stitched image.

Image blending is only available for DWU635-GS and DHD635-GS.

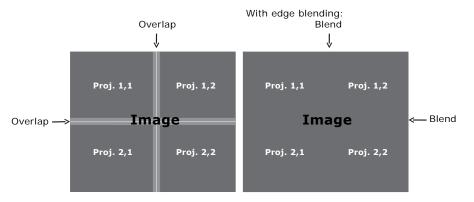
What is a blend?

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?

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 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.

Screen menu

The Screen menu determines the size and position of the image on the screen.

	Screen		
	Size Presets		Auto
	Pixel Phase		50
	Pixel Track		50
	Horz Position		50
	Vert Position		50
	Digital Horz Zoom		0
	Digital Vert Zoom		0
	Digital Horz Shift		50
	Digital Vert Shift		50
	Ceiling Mount		Auto
	Rear Projection		Off
30	Geometry Correction		→
• स्म	PIP-PBP Settings		→
	Input Key		Change Sources
	Auto Image		Wide
	Source Info		→
	Select 🔶	Enter	Exit Menu

Menu item	Description	Options
Size Presets	Displays an image with the detected size, or resizes the image by maximizing either the height, width, both, or resizes to the maximum size possible while keeping the original aspect ratio.	 Auto—Displays with the detected size. 4:3—Retains 4:3 aspect ratio. 16:9—Retains 16:9 aspect ratio. 16:10—Retains 16:10 aspect ratio.
Pixel Phase	Adjust the pixel phase when the image 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. (Analog RGB signals only.)	0-100



Menu item	Description	Options
Pixel Track	Ensures that the image quality is consistent across the screen, the aspect ratio is maintained, and the pixel phase can be optimized. Steady flickering or several soft vertical stripes or bands across the entire image indicates poor pixel tracking. (Analog RGB signals only).	0-100
Horz Position	Moves the image right or left within the area of available pixels.	0-100
Vert Position	Moves the image up or down within the area of available pixels.	0-100
Digital Horz Zoom	Changes 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.	0-10
Digital Vert Zoom	Changes 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 Vert Shift settings.	0-10
Digital Horz Shift	Moves the display area horizontally if its size has been changed by the Digital Horz Zoom setting.	0-100
Digital Vert Shift	Moves the display area vertically if its size has been changed by the Digital Vert Zoom setting.	0-100
Ceiling Mount	Turns the image upside down for ceiling- mounted projection.	 Off On Auto—Projector would detect automatically.
Rear Projection	Reverses the image so that you can project from behind a translucent screen.	• Off • On
Geometry Correction	Provides several ways for warping control. For more information on geometry correction, see <i>Geometry Correction</i> on page 43.	 H. Keystone—Adjusts the keystone horizontally and make a more square image. 0-40 V. Keystone—Adjusts the keystone vertically and make a more square image. 0-40 4 Corners—Allows the image to be squeezed to fit an area defined by moving each of the four corners' x and y position. Grid Color—Choose the color of 4 corner, green or purple. Reset—Restore the settings to its default value. PC Mode off—User can do simple horizontal and vertical keystone, and 4-corner control by using the on-screen display. PC Mode on—User can do arbitrary warping or blending control by using PC APP provided separately.



Menu item	Description	Options
PIP-PBP Settings	Displays an image with two sources in PIP mode or PBP mode. Refer to <i>PIP/PBP Settings menu</i> on page 44 and <i>PIP/PBP layout and size</i> on page 46.	 Function—Toggles between displaying two sources at once (main and PIP/PBP images) or one source only. Main Source—Selects an active input to be used as the main image. Sub Source—Selects an active input to be used as the PIP/PBP. Location—Sets the location of the PIP image on the screen. Size—Selects the PIP size to small, medium, or large. Swap—Changes the main image to PIP/PBP, and the PIP/PBP to main image. Swapping is available only when PIP/PBP is enabled.
Input Key	Lists or changes the sources.	 Change Sources List all Sources Auto Source
Auto Image	Forces the projector to reacquire and lock to the input signal. This is useful when signal quality is marginal.	 Normal—Supports all of the 4:3 input sources. Wide—Supports all of the 16:9 input source and most of the 4:3 input source. For the 4:3 input sources not recognized by Wide mode (for example, 1400 x 1050), perform Auto Image using Normal mode.
Source Info	Displays the current source settings. (Read-only).	

Geometry Correction

Geometry correction provides two ways for warping control:

- PC Mode off—User can do simple horizontal and vertical keystone, and 4-corner control by using the on-screen display.
- PC Mode on—User can do arbitrary warping or blending control by using the PC APP provided separately.



• PC mode is only available for DWU635-GS and DHD635-GS.

The following table provides information about the geometry correction feature compatibility:

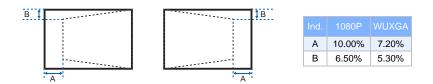
Warp Function	4 Corners	Keystone
4 Corners		\checkmark
Keystone	\checkmark	



 The Geometry Correction function for DWU630-GS and DHD630-GS models is not supported while using PC mode.

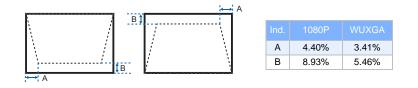
H. Keystone

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.



V. Keystone

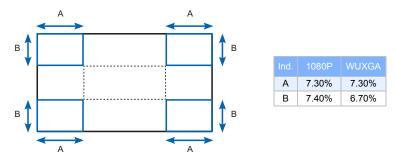
Adjust the keystone vertically and make a more square image. Vertical keystone is used to correct a keystoned image shape in which the left and right borders of the image are unequal in length, and the top and bottom are slanted to one of the sides. This is intended when for use with vertically on-axis applications.





4 Corners

Allow the image to be squeezed to fit an area defined by moving each of the four corners' \boldsymbol{x} and \boldsymbol{y} position.



PIP/PBP Settings menu

The PIP/PBP Settings menu determines how the main and PIP/PBP inputs are handled.

PIP-PBP Settings				
Function		PIP		
Main Source		VGA		
Sub Source		HDM	I-1	
Location		Top L	eft	
Size		Smal	1	
Swap		Ē	3	
Select 🔶	Enter		Exit	Menu

Menu item	Description	Options
Function	Toggles between displaying two sources at once (Main and PIP/PBP images) or one source only.	 Off—Displays image from the main source only. PBP—Displays images from two sources by separating the screen into two parts. One source is displayed on the main screen and another source is displayed in an inset window. PIP—Displays images from two sources by separating the screen into half. One source is displayed on the left side of the screen and the other source on the right side of the screen.
		Refer to <i>PIP/PBP layout and size</i> on page 46.



Menu item	Description	Options
Main Source	Selects an active input to be used as the main image.	 VGA HDMI-1 HDMI-2 DVI HDBaseT
Sub Source	Selects an active input to be used as the sub image.	 VGA HDMI-1 HDMI-2 DVI HDBaseT
Location	Sets the location of the PIP/PBP image on the screen. Refer to <i>PIP/PBP layout and size</i> on page 46.	 Top Left Top Right Bottom Left Bottom Right
Size	Selects the PIP/PBP size to small, medium, or large.	_
Swap	Changes the main image to PIP/PBP, and the PIP/PBP to main image. Swapping is available only when PIP/PBP is enabled.	_

PIP/PBP layout and size

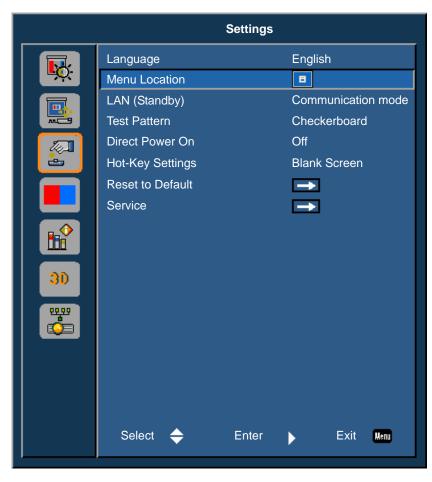
A P indicates the primary source region (lighter color) and an asterisk (*) indicates both regions are the same size.

DID Loveut	PIP Size		
PIP Layout	Small	Medium	Large
PIP-Bottom Right	P	P	P
PIP-Bottom Left	P	P	P
PIP-Top Left	P	P	P
PIP-Top Right	P	P	P

PPD I avout	PBP Size		
PBP Layout	Small	Medium	Large
PBP, Main Left			P
PBP, Main Right			P

Settings Menu

The Settings menu sets the language, menu location, LAN (standby), and other preferences for the projector.



Menu item	Description	Options
Language	Selects an available language for the on-screen display.	 English Chinese (Simplified) French German Italian Japanese
		• Korean • Russian • Spanish



Menu item	Description	Options
Menu Location	Sets up the on-screen display menu location.	 Left Top Right Top Center Left Bottom Right Bottom
LAN (Standby)	Determines the power modes for projector.	0.5W mode—Low power mode.Communication mode—Normal power mode.
Test Pattern	Chooses the required internal test pattern to display.	 None Grid White Black Checkerboard Color Bars
Direct Power On	Automatically turns the projector on when electrical power is connected.	• On • Off
Hot-Key Settings	Assigns a different function to the hot key on the IR remote keypad by highlighting the function in the list and pressing Enter . Chooses 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.	 Blank Screen Aspect Ratio Freeze Screen Projector Info
Reset to Default	Restores all settings to their default value. It does not reset network but it resets RS232.	• Yes • No
Service	Displays projector information, sets test patterns, error logs, and high temperature warnings.	 Projector Info—Displays the current projector settings. (Read-only) Factory Reset—Restores all settings to their default value. It does not reset network but it resets RS232. Test Pattern—Sets the required internal test pattern to display. To turn off a test pattern, select Off. Wheel Index (2x)—Sets the wheel index to Speed 2X. Only use this setting when a new main board is installed, and the picture quality needs to be optimized. Wheel Index (3x)—Sets the wheel index to Speed 3X. Only use this setting when a new main board is installed, and the picture quality needs to be optimized. Error Log—Shows the projector error log for debug. Laser Diode Info—Displays the information of each laser diode bank including its voltage, current, and temperature.



Language menu

Select an available language for the on-screen display.

Language	
English	
简体中文	
Français	
Deutsch	
Italiano	
日本語	
한국어	
Русский	
Español	

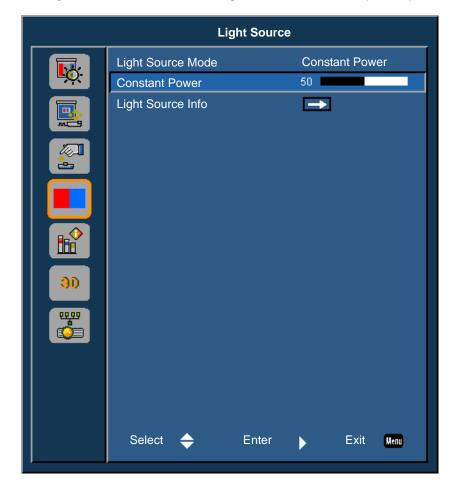
Test Pattern menu

Choose the required internal test pattern to display, or select **None** to turn off a test pattern.

Test Pattern	None	Grid	White	Black	Checkerboard	Color Bars	

Light Source menu

The Light Source menu sets the light source mode and power preferences.



Menu item	Description	Options
Light Source Mode	Sets the light source mode.	 Constant Power Constant Intensity ECO 1—The factory default brightness is 80%. ECO 2—The factory default brightness is 50%.
Constant Power	Sets the value of the laser diode power.	0-99
Light Source Info	Displays the total hours of the projector, the total hours of the laser diode that have been used, and information on the light sensor calibration.	_

Options Menu

The Options menu allows to select the splash screen, configure auto shutdown parameters, set sleep timer, and configure other options for the projector.



Menu item	Description	Options
Splash Screen	Selects the splash screen.	 Factory Logo Blue Black White
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 is displayed.	0-120 mins



Menu item	Description	Options
Sleep Timer	Allows the projector to automatically power off after it has been on for a specified amount of time.	0-990 mins
Lens Settings	Adjusts the lens parameters.	 Focus—Adjusts the focus point of the image. Zoom—Adjust the zoom of the image in or out. Lens Shift—Shifts the lens up and down, or left and right. Lock Lens Motors—Selects 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—Calibrates to move the lens back to center.
High Altitude	Enables or disables high altitude mode.	 On—Enables high altitude mode for altitudes >/= 2000 m. The fan operates at high speed to ensure sufficient air flow for high altitudes. Off—Disables high altitude mode. For altitudes below 2000m.
PIN Protect	Protects your projector with a password. Once enabled, you must enter the password before you can project an image.	_
Remote Settings	Turns on/off remote settings.	 Top Front HDBaseT Projector Address. 0-9.
Information Hide	Hides or displays projector settings.	• On • Off
Backlight Preferences	Controls the backlight behavior and status LED.	Keypad Backlight Status LED
Information	Displays the projector settings. (Read-only)	-

Information menu

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

For DHD Models

Information			
Model Name			DHD635-GS
Serial Number			BWH1709E01
Native Resolution			1920 x 1080
MCU EVV			A00.50
DDP FW			V02.19
M9813 FW			M00.09
Motor FW			K00.02
PW808 FW			B03.78
Main Input			VGA
Main Signal Format			Digital Video
Main Pixel Clock			74.2MHz
Main Sync Type			Sync On Green
Main Horz Refresh			45.1kHz
Main Vert Refresh			60.0Hz
PIP/PBP Input			HDMI-1
PIP/PBP Signal Format			
PIP/PBP Pixel Clock			
PIP/PBP Sync Type			
PIP/PBP Horz Refresh			
PIP/PBP Vert Refresh			
Light Source Power			99
Total Projector Hours			70
Light Source Hours			70
Standby Mode			Communication mode
Lens Lock Settings			Allow
IP Address			192,168.0.100
DHCP			Off
System Temperature			38°C
	Exit	Menu	

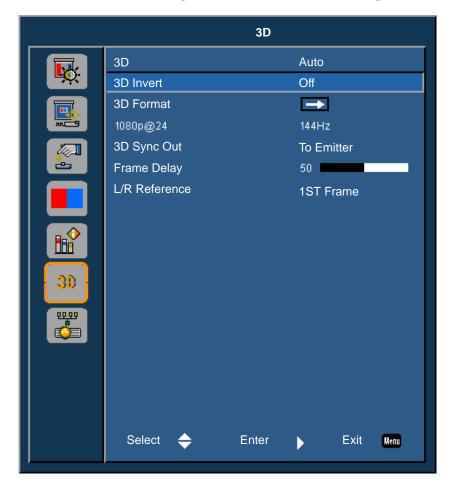
For DWU Models

Information	
Model Name	DWU635-GS
Serial Number	BWU1709E01
Native Resolution	1920 x 1080
MCU FW	A00.50
DDP FW	V02.19
M9813 FVV	M00.09
Motor FW	K00.02
PW808 FW	B03.78
Main Input	VGA
Main Signal Format	Digital Video
Main Pixel Clock	74.2MHz
Main Sync Type	Sync On Green
Main Horz Refresh	45.1kHz
Main Vert Refresh	60.0Hz
PIP/PBP Input	HDMI-1
PIP/PBP Signal Format	
PIP/PBP Pixel Clock	
PIP/PBP Sync Type	
PIP/PBP Horz Refresh	
PIP/PBP Vert Refresh	
Light Source Power	99
Total Projector Hours	70
Light Source Hours	70
Standby Mode	Communication mode
Lens Lock Settings	Allow
IP Address	192.168.0.100
DHCP	Off
System Temperature	38°C
Exit	Henu



3D menu

The 3D menu sets the usage of 3D function and its settings.



Menu item	Description	Options
3D	Enables 3D content detection.	• On • Auto
3D Invert	Inverts the 3D sync signal when using a single projector.	• On • Off
3D Format	Sets the 3D format. Supports mandatory 3D formats and frame sequential 3D@120Hz.	 Frame Packing Side-by-Side(Half) Top and Bottom Frame Sequential (635-GS only)
1080p@24	Sets the 3D resolution 1080p@24 frequency.	• 96Hz • 144Hz



Menu item	Description	Options
3D Sync Out	Transmits a 3D sync signal by the 3D sync output corrector to the emitter or to the next projector for 3D blending purposes.	_
Frame Delay	Corrects asynchronous displaying of images under 3D blending.	-
L/R Reference	Source of the left or right reference.	 1st Frame—This is used for single 3D projector. Field GPIO—Select Field GPIO to make the first 3D output signal the same for multiprojectors application.

Communications menu

The Communications menu sets the LAN parameters, network status, and other settings for the projector.





Menu item	Description	Options
LAN	Determines the communication settings.	DHCP—Turns the DHCP on or off.
		• IP Address—Assigns the network IP address.
		 Subnet Mask—Assigns the network subnet mask.
		 Default Gateway—Assigns the network default gateway.
		 MAC Address—Displays the network MAC address value.
		 Apply—Apply the LAN configuration when the setting is changed or added.
Network		 Projector Name—Displays the projector name.
		 Show Network Messages—Turns network messages on or off.
		Restart Network—Restarts the network.
		 Network Factory Reset—Performs factory reset on the network settings. The Projector Name, IP Address (LAN), Start IP and End IP, and SNMP settings can be reset.
Serial Port Baud	Selects the serial port and baud rate.	• 1200
Rate		• 2400
		• 4800
		• 9600
		• 14400
		• 19200
		• 38400
		• 57600
		• 115200
Serial Port Echo	Controls whether the serial port echoes	• Off
	characters.	• On
Serial Port Path	Sets the serial port path to RS232 or	• RS232
	HDBaseT.	• HDBaseT



LAN settings

The LAN menu sets the DHCP, IP address, and other network settings for the projector.



Web user interface

The web user interface provides an alternate way to access the menu functionality on the projector.

Logging on to the web user interface

Log onto the web user interface by following the steps below.

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

	C	HKISTIE
Welcome to Proje	ector Web Manag	jement
Compatible with In	iternet Explorer 8 or hi	gher
Projector model name	DHD630-GS	
Access type	user	~
Password	1	
Language	English	×
	Login	
and the second s	ie Presenter	
	Download	

- 2. From the Access type list, select the log in level.
- 3. In the Password field, type the password.
- 4. From the Language list, select the appropriate language.
- 5. To access the Main window, click **Login**.



Main tab-General

Displays information about the projector, its power status, and what is selected for the main and PIP/PBP input sources.

		Serial Numbe	DHD630-GS r 031211199		Us	Logout ser administ
General Sta	tus Lens					
Control		Projector Info	9	Switch		
Main Input	Mini US8	Power	ON	Power	Power On	
PIP/PBP Input	VISA	Pic Mute	OFF		Power Off	
PIP / PBP		OSD	ON			
		IP Address	10.2.25.14	Pic Mute	Pic Mute ON	
States of the		MAC Address	00:70:21:72:0a:ab		Pic Mute OFF	
Size	Small			050		
Swap	Execute			050		
Test Pattern	OFF				Off	
	Control Main Input PIP/PBP Input PIP / PBP Main Layout Size	Control Main trput Mini US8 PIP/PBP Toput VGA PIP / PBP OoN @OFF Main Layout PBP, Main Left @ Size Small @ Swap Execute	Control Projector Juf/ Main Ingut Mini USB Power PIP/PBP Ingut VSA Pic Mute PIP/PBP Ingut VSA OSD PIP / PBP O ON O OFF Main Layout PBP, Main Left (w) MAC Address Size Small (w) Swap Execute	Control Projector Info Main tnput Mini US8 Power ON PIP/PBP Input VSA Pic Mute OFF OSD ON OSD ON PIP / PBP O ON OFF OSD ON Main Lavout PBP, Main Left MAC Address 00:70:21:72:03:ab Size Smail Swap Execute	Control Projector Info Switch Main Input Mini US8 Power DN PIP/PBP Input VISA Pic Mute OFF OSD ON OSD ON PIP / PBP O ON © OFF IP Address 10.2:25:14 Main Lavout PBP, Main Left MAC Address 00:70:21:72:03:3b Pic Mute Size Smail Size Smail OSD OSD	Control Projector Info Switch Main Input Mini USB Power ON PIP/PBP Input VGA Pic Mute OFF OSD ON Power Off Power Off PIP /PBP O ON OFF OSD ON Main Layout PBP, Main Left MAC Address 00:70:21:72:03:ab Pic Mute OFF Size Small Swap Execute OSD On

Panel	Description
Control	Selects main source/PIP source, enables or disables PIP/PBP, changes the layout or PIP size, swap, and change the test pattern.
Projector Information	Check the projector information for power status, Pic mute status, on-screen display status, IP address, and MAC address.
Switch	Switches the on or off status of Power, Pic Mute, and on-screen display.

Main tab-Status

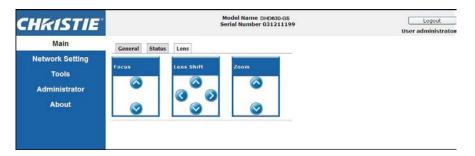
Displays the current status of light source, cooling (fans), version numbers, and signal (source) information.

Hkistie	Model Name DHD630-GS Serial Number 031211199		Logout User administrato
Main	General Status Lens		
Network Setting	Light Source		
Tools	Total Projector Hours	0003	
Administrator	Light Source Cooling Version Signal		
About			



Main tab-Lens

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





Network

If you change a setting, the network subsystem of the projector may restart, and you may be logged off.



Panel	Description	Fields
Restart Network	Executes a network restart. This does not change any of the network settings.	



Panel	Description	Fields
Network Factory Reset	Execute a network factory reset. Network settings may 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 Community = private • Trap IP Address = 0.0.0.0 • SMTP IP Address = 0.0.0.0 • All other settings are cleared or blanked Trap Configuration: • All items = SNMP Trap + Email
LAN Setting Panel	Sets if the projector must obtain an automatically assigned IP address through DHCP or if the user sets the address manually.	For the TCP/IP setting, enter the IP address, netmask, and default gateway address.
WLAN Setting Panel	Enables or disables the wireless LAN of the projector.	Enter the IP address range, netmask, and default gateway for the wireless LAN.
SNMP Panel	 Provides network administrators with a common way to manage their network devices from a single remote location. Administrators can use the Simple Network Management Protocol (SNMP) interface to query a number of devices to see their current status or configuration. Operators can change configuration values and configure trap notifications to be sent when certain events occur (for example, loss of signal, power state change, and so on). Emails are sent to the mail server configured in the projector settings. Up to two user email accounts can be selected. Important information regarding the event is located in the body content of the email. SNMP Traps are notifications sent from the projector and are only received by a trap receiver (MIB Browser) in the computer. 	 SNMP Read Community (default setting: private)—Plain text password that must also be entered in the MIB browser. This password allows various settings in the projector to be queried. SNMP Location (default setting: blank)—Use as a description to where a projector is located in a building. SNMP emails sent specify this location. Trap IP Address (default setting: 0.0.0.0)—Fill in this field with the IP address of the computer, on which you want to view received traps from the projector. Trap Email 1/2 (default setting: Blank)—Set the Trap Email 1 and 2 to an email address configured under the mail server entered in the SMTP Server IP Address field. Email from Address (default setting: blank)—Set the name of the source of the SNMP emails. SMTP Server IP Address (default setting: blank)—Enter the IP address (default setting: blank)—Set the name of the source of the mails erver.



Panel	Description	Fields
Trap Configuration Panel	Set the SNMP actions for the system events.	 SNMP Trap + Email Email SNMP Trap Disabled
Crestron Control System Panel	Provides the information to connect to a Creston device.	Enter the IP address, IP ID, and port of Crestron device for the connection.

Tools

Use the Tools pages to control size & position, image settings, configuration, light source, input switching, PIP, and test patterns.

IKISTIE	Model Name DHD630-GS Serial Number 031211199					User adm
Main	Size & Position	Image Settings	Configuration	Light Source	Input Switching & PIP	Test Pattern
etwork Setting	Size & Position					
Tools	Size Presets	Auto	•	Horz. Position	disable +	
Administrator	Overscan	Off	*	Vert. Position	disable 👉	
About	Auto Image	Wide	*	Digital Horz.	Zoom 🔄 disable 🕂	
	Pixel Track	disable	-	Digital Vert. 2	toom [-] [disable] +	
	Pixel Phase	disable	-	Digital Horz.	Shift disable +	
				Digital Vert. 9	shift - disable +	0/
	Geometry Corro Geometry Co		v			_
	Horz. Keysto	ne 🔄 disa	ble +	Horz. Pincush	ion 🔄 disable] (+)
	Vert. Keystor	e disa	ble	Vert. Pincushi	on 🔄 disable	1040

Administrator Page

Add or delete a user or change password.

IKISTIE	Ser	ial Number 031211199	User adminis
Main	User List		Add User
Network Setting	Access type	User ID	Delete User
Tools	USER	user	Change Password
Administrator	GUEST	guest	
About	ADMIN	administrator	



About Page

The About page provides version and license information about GS Series.

HKISTIE		Model Name DHD630-GS Serial Number 031211199	Logout User administrato
Main	Version License		
Network Setting	Version Information		
Tools	Main Firmware	V03.68	
Administrator	Network Firmware	N00.45	
Administrator	Projector model name	DHD599-GS	
About	Projector serial number	031211199	

Tab	Description
Version	Views the main firmware version, network firmware version, projector model name, and projector serial number.
License	Displays the license information of the computer program.

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Troubleshooting

If you cannot resolve an issue using the information provided in this section, contact your reseller or service center.

No image appears on screen

The image does not appear on the screen.

Resolution

- Make sure all the cables and power connections are correctly and securely connected.
 See *Installation* on page 19 for more details.
- Check if the Light Status LED is in Green.
- Make sure you have removed the lens cap and the projector is switched on.

Incorrectly displayed image

The image is partial, is scrolling, or is otherwise incorrectly displayed.

Resolution

If using a PC:

- 1. On control panel or IR remote keypad, press AUTO.
- 2. Select My Computer > Control Panel.
- 3. Double-click **Display**.
- 4. Select the Settings tab.
- 5. Verify your display resolution setting is lower than or equal to WUXGA (1920 \times 1200).
- 6. Click Advanced Properties.
- 7. If the projector is still not projecting the entire image, change the monitor display:
 - a. Verify the resolution setting is lower than or equal to WUXGA (1920 \times 1200).
 - b. Switch to the **Monitor** tab.



- c. Click Change.
- d. Click Show all devices.
- e. Under the SP box, select Standard monitor types.
- f. Under the Models box, select the appropriate resolution mode.
- g. Verify that the resolution setting of the monitor display is lower than or equal to WUXGA (1920 \times 1200).

If using a Notebook:

- 1. On control panel or IR remote keypad, press AUTO.
- 2. Adjust resolution of the computer.
- 3. To send signal out from notebook to projector, press the keys listed below for your Notebook manufacturer (for example, [Fn]+[F4]):

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

4. If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.

Presentation is not displayed

The screen of the Notebook or PowerBook computer is not displaying your presentation.

Details

Some Notebook PCs may deactivate their own screens when a second display device is in use. Each has a different method of reactivation.

Resolution

Refer to your computer manual for information on changing the method of reactivation.

Unstable or flickering images

The image is unstable or is flickering when projected.

Resolution

- To correct the pixels, use Pixel Track and Pixel Phase.
- Change the monitor color setting on your computer.

Vertical flickering bar

The image has a vertical, flickering bar when projected.

Resolution

- To make an adjustment, use Auto Image.
- Check and reconfigure the display mode of your graphic card to make it compatible with the projector.

Image is out of focus

The image is out of focus on the screen.

Resolution

- Make sure both lens caps (front and back) are removed.
- Adjust the lens focus to fit the screen.
- Make sure the projection screen is between the required distance.

Image is stretched

The image is stretched when displaying a 16:9 DVD title.

Details

When you play anamorphic DVD or 16:9 DVD, the projector shows the best image if the projector display mode is set to 16:9 in the on-screen display.



Resolution

- If you play 4:3 format DVD titles, change the format to 4:3 in the projector on-screen display.
- If the image is still stretched, adjust the aspect ratio by setting the display format as 16:9 (wide) aspect ratio type on your DVD player. For more details, see *Screen menu* on page 40.

Image is not the correct size

The image is too small or too large.

Resolution

- Adjust the lens zoom to fit.
- Verify you are using the correct lens.
- Change the position of the projector.

Connection fail when DHCP on

IP address shows 0.0.0.0 when DHCP is on.

Resolution

- Make sure RJ45 cable is connected correctly and securely to the projector and the network device.
- Check if there is a DHCP server in this network.
- After checking the steps above, refresh the network setting by turning DHCP off and turning back on.
- Contact your IT engineer if the steps above cannot resolve the network issue.



• Turning off DHCP returns back to default setting if DHCP on fails.

Connection fail with new IP address

User cannot control the projector after setting up the new IP address manually.

Resolution

- Make sure RJ45 cable is connected correctly and securely to the projector and the network device.
- Make sure the IP address of projector and the controlling device are set to the same region with different IP addresses.
- Connect the projector directly to the computer. If it is successfully connected, check the network environment.
- Make sure every device has a unique IP address.
- Contact your network engineer if the steps above cannot resolve the network issue.

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Specifications

Learn about the product specifications. Due to continuing research, specifications are subject to change without notice.

Inputs

The following table details the inputs for GS Series. RB in the Resolution column indicates reduced blanking.

Signal Type	Resolution	Frame rate (Hz)	HDMI	VGA	DVI
	640x350	85	•		
	640x400	85	•	•	•
	640x480	59	•		
	640x480	60	•	•	•
	640x480	72	•	•	•
	640x480	75	•	•	•
	640x480	85	•	•	•
	720x400	85	•	•	•
	768x480	60	•		
PC	768x480	75	•		
PC	768x480	85	•		
	800x600	50	•		
	800x600	56	•	•	•
	800x600	60	•	•	•
	800x600	72	•	•	•
	800x600	75	•	•	•
	800x600	85	•	•	•
	848x480	50	•		
	848x480	60	•		
	848x480	75	•		



Signal Type	Resolution	Frame rate (Hz)	HDMI	VGA	DVI
	848x480	85	•		
	960x600	50	•		
	960x600	60	•		
	960x600	75	•		
	960x600	85	•		
	1024x768	60	•	•	•
	1024x768	75	•	•	•
	1024x768	85	•	•	•
	1064x600	50	•		
	1064x600	60	•		
	1064x600	75	•		
	1064x600	85	•		
	1152x720	50	•		
	1152x720	60	•		
	1152x720	75	•		
	1152x720	85	•		
50	1152x864	60	•	•	•
PC	1152x864	70	•	•	•
	1152x864	75	•	•	•
	1152x864	85	•	•	•
	1280x720	50	•		
	1280x720	60	•	•	•
	1280x720	75	•	•	•
	1280x720	85	•	•	•
	1280x768	60	•	•	•
	1280x768	75	•	•	•
	1280x768	85	•	•	•
	1280x800	50	•	•	•
	1280x800	60	•	•	•
	1280x800	75	•	•	•
	1280x800	85	•	•	•
	1280x960	60	•	•	•
	1280x960	75	•	•	•
	1280x960	85	•	•	•



_

Signal Type	Resolution	Frame rate (Hz)	HDMI	VGA	DVI
PC	1280x1024	50	•		
	1280x1024	60	•	•	•
	1280x1024	75	•	•	•
	1280x1024	85	•	•	•
	1360x768	50	•		
	1360x768	60	•		
	1360x768	75	•		
	1360x768	85	•		
	1366x768	60	•	•	•
	1400x900	60	•	•	•
	1400x1050	50	•		
	1400x1050	60	•	•	•
	1400x1050	75	•	•	•
	1440x900	60	•	•	•
	1440x900	75	•		
	1600x900	60	•		
	1600x1200	50	•		
	1600x1200	60	•	•	•
	1680x1050	50	•		
	1680x1050	60	•	•	•
	1680x1050	75	•		
	1704x960	50	•		
	1704x960	60	•		
	1728x1080	50	•		
	1728x1080	60	•		
	1864x1050	50	•		
	1864x1050	60	•		
	1920X1080	50	•		
	1920X1080	60	•	•	•
	1920X1200RB	60	•	•	•
	1920X1200RB	50	•	•	•
NTSC	NTSC (M, 4.43)	60			



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Signal Type	Resolution	Frame rate (Hz)	HDMI	VGA	DVI
	PAL (B,G,H,I)	50			
PAL	PAL (N)	50			
	PAL (M)	60			
SECAM	SECAM (M)	50			
SDTV	480i	60	•	•	•
SDTV	576i	50	•	•	•
EDTV	480p	60	•	•	•
LDTV	576p	50	•	•	•
	1080i	25	•	•	•
	1080i	29	•	•	•
	1080i	30	•	•	•
	720p	50	•	•	•
	720p	59	•	•	•
	720p	60	•	•	•
	1080s	23	•		
HDTV	1080s	24	•		
	1080p	23	•	•	•
	1080p	24	•	•	•
	1080p	25	•	•	•
	1080p	29	•	•	•
	1080p	30	•	•	•
	1080p	50	•	•	•
	1080p	59	•	•	•
	1080p	60	•	•	•

PIP/PBP compatibility

The following table details the PIP/PBP compatibility.

PIP/PBP Matrix	VGA	DVI-D	HDMI-2	HDMI-1	HDBaseT
VGA	-	•	•	•	•
DVI-D	•	-	•	-	-
HDMI-2	•	•	-	•	•
HDMI-1	•	-	•	-	-
HDBaseT	•	-	•	-	-

- Dot (•): PIP/PBP combinations are enabled.
- Dash (-): PIP/PBP combinations are disabled.

CHKISTIE°

Key features

- + HD 0.65" 1920 \times 1080 resolution or WUXGA 0.67" 1920 \times 1200 resolution
- Projection lens compatibility:
 - Horizontal offset ranges: +/-30%
 - Vertical offset ranges: +/-100% (WUXGA) and +/-120% (HD)

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.

- SNMP traps and email notifications
- 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
- Weight:
 - Maximum product weight (with lens removed): 16.5 kg (36 lbs)
- Built-In keypad



List of components

This projector comes with all the items listed below. Check to make sure your package is complete. If anything is missing, contact your dealer.

- IR remote control (P/N: 003-004468-01)
- Power cords supplied with the projector:
 - UK/Korea/Russia
 - North America
 - Europe
 - Australia/New Zealand
 - Japan
 - India
 - South Africa
- DVI to HDMI dongle
- User manual (USB)

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

The following accessories are available for the projector:

- Cable Cover GS White (P/N: 140-106108-XX)
- Cable Cover GS Black (P/N: 140-106119-XX)
- Standard Lens 1.22 1.53 (P/N: 140-132107-XX)
- Optional Lens 0.95 1.22 (P/N: 140-101103-01)
- Optional Lens 1.52 2.89 (P/N: 140-102104-01)
- Optional Lens 0.75 0.95 (P/N: 140-119102-XX)
- Optional Lens 2.90 5.50 (P/N: 140-107109-XX)
- Optional Lens 1.22-1.52 (P/N: 140-131106-XX)
- Optional Lens 0.36 (P/N: 140-133108-XX)
- Christie One Mount (P/N: 108-506102-XX)
- One Mount Extender Rod (P/N: 121-125109-XX)
- One Mount Rigging Kit (P/N: 121-126100-XX)

Physical specifications

Learn the dimensions and weight of the projector.

Description	Dimensions			
Projector size				
Overall size (L x W x H) (excluding lens, feet)	456 mm (18.0 in) x 505 mm (19.9 in) x 190 mm (7.5 in)			
Overall size, shipping without lens (L x W x H) (includes packaging)	596 mm (23.5 in) x 626 mm (24.6 in) x 341 mm (13.4 in)			
Projector Weight				
Without lens	16.5 kg (36 lbs)			
Shipping without lens (includes packaging)	22.3 kg (49.2 lbs)			
Operating position	· · · · · · · · · · · · · · · · · · ·			
360 degree front to back and portrait capable	Free orientation and no tilt range constraint.			

Physical operating environment

Provides specifications for the operating environment.

- Operating: 5°C to 40°C
 - 5 to 40 degrees C (0 to 2500 ft)
 - 5 to 35 degrees C (2500 to 5000 ft)
 - 5 to 30 degrees C (5000 to 10000 ft)
- Storage temperature range: -10°C to 60°C
- Humidity range: 10% to 85% RH (maximum), non condensing
- Storage humidity range: 5% to 90% RH (maximum), non condensing
- Operating altitude: 10,000 ft maximum

Power requirements

Learn the power requirements for the projector.

Parameter	Requirement
Rated voltage	
Input	100-240V
Rated current	
Input	7A
Line frequency	50/60Hz
AC input coupler	
Inrush current	76A max
Maximum power consumption	
Input	650W
Maximum power consumption, ECO mode	
Input	470W
Maximum power consumption, WLAN mode	
Input	< 8.0W
Maximum power consumption, Standby mode	
Input	< 0.5W

Regulatory

This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC).

Safety

- CSA C22.2 No. 60950-1
- UL 60950-1
- IEC 60950-1
- EN 60950-1

Laser Safety

- IEC 60825-1
- IEC 62471
- FDA CDRH CFR 1040.10



• FDA CDRH CFR 1040.11

Electro-Magnetic Compatibility

Emissions

- FCC CFR47, Part 15, Subpart B/ANSI C63.4, Class A Unintentional Radiators
- CISPR32/EN55032 Class A Information Technology Equipment
- ICES/NMB003 (A) Information Technology Equipment

Immunity

• CISPR 24/EN55024 EMC Requirements - Information Technology Equipment

Environmental

- The product conforms to:
 - EU Directive (2011/65/EU) 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 (2012/19/EU) 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 conforms to all relevant Canadian, US, and European directives, standards, safety, health and environmental concerns. International packaging recycling marks conform to:
 - EU Directive (2012/19/EU) 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).

Federal Communications Commission (FCC) 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.

On-screen display tree

The following table provides the on-screen display menu.

Level 1	Level 2	Level 3 (Or List)	Level 4 (Or List)	Level 5 (Or List)	Level 6 (Or List)	Default
		Bright				
		Presentation				
		Film				
	Picture Settings	REC709				Depends on signal type.
		Blending				
		DICOM SIM.				
		User				
	Wall color	White				White
		Gray 130				vvnite
	Brightness	0 ~ 100				Depends on color mode.
	Contrast	0 ~ 100				Depends on color mode.
	Sharpness	0 ~ 10				5
Picture	Color	0 ~ 100				VGA component signal only.
	TINT	0 ~ 100				VGA component signal only (white color).
		Video				
		Film				
	Gamma	Bright				Depend on color mode.
		CRT				
		DICOM				
	White Peaking	0 ~ 100				
		Warm				
	Color Temp	Bright				Bright
		Cool				





Level 1	Level 2	Level 3 (Or List)	Level 4 (Or List)	Level 5 (Or List)	Level 6 (Or List)	Default
	Color Wheel	2X				- 3X
	Speed	3X				- 37
			Hue		1~199	
		Red	Saturation		0 ~ 199	
			Gain		1 ~ 199	
			Hue		1~199	
		Green	Saturation		0 ~ 199	
			Gain		1 ~ 199	
			Hue		1~199	
		Blue	Saturation		0 ~ 199	
			Gain		1 ~ 199	
		Cyan	Hue		1~199	
	HSG Adjustment		Saturation		0 ~ 199	
	hist Aujustment		Gain		1 ~ 199	
		Magenta	Hue		1~199	
Picture			Saturation		0 ~ 199	
			Gain		1 ~ 199	
			Hue		1~199	
		Yellow	Saturation		0 ~ 199	
			Gain		1 ~ 199	
			Red		1~199	
		White Gain	Green		0 ~ 199	
			Blue		1 ~ 199	
		Reset to Default				
		Off				
	Contrast Enhancement	Dynamic Black				Off
		Real Black				
		Auto				
	Color Space	RGB(0-255)				Auto
	Color Space	RGB(16-235)				
		YUV				





Level 1	Level 2	Level 3 (Or List)	Level 4 (Or List)	Level 5 (Or List)	Level 6 (Or List)	Default
		Auto				
		4:3				
	Size Presets	16:9				
		16:10				
	Pixel Phase	0 ~ 100				
	Pixel Track	0 ~ 100				
	Horz Position	0 ~ 100				
	Vert Position	0 ~ 100				
	Digital Horz Zoom	100% to 200%	0 ~ 10			0
	Digital Vert Zoom	100% to 200%	0 ~ 10			0
	Digital Horz Shift		0 ~ 100			50
	Digital Vert Shift		0 ~ 100			50
		Off				
	Ceiling Mount	On				Auto
Screen		Auto				
Scieen	Rear Projection	Off				Off
	Real Projection	On				OII
		H. Keystone	0~40			20
		V. Keystone	0~40			20
			Top Left Horz Adjust			
			Top Left Vert Adjust			
			Top Right Horz Adjust			
	Geometric Correction	4.000000	Top Right Vert Adjust			
		4 Corners	Bottom Left Horz Adjust			
			Bottom Left Vert Adjust			
			Bottom Right Horz Adjust			
			Bottom Right Vert Adjust			





Level 1	Level 2	Level 3 (Or List)	Level 4 (Or List)	Level 5 (Or List)	Level 6 (Or List)	Default
		Crid Color	Purple			Crear
		Grid Color	Green			Green
	Geometric	Decet	Yes			
	Correction	Reset	No			
		PC Mode	Off			
			On			
			Off			
		Function	PBP			Off
			PIP			
			VGA			
			HDMI-1			
		Main Source	HDMI-2			Current Source.
			DVI			
			HDBaseT			
		Sub Source	VGA			
Canada			HDMI-1			
Screen	PIP-PBP Settings		HDMI-2			Depends on current source.
			DVI			
			HDBaseT			
			Top Left			
		Leastien	Top Right			Tan Laft
		Location	Bottom Left			Top Left
			Bottom Right			
			Small			
		Size	Medium			Medium
			Large			
		Swap				
		Change Sources				
	Input key	List all Sources				
		Auto Source				
	Auto Image	Normal				Wide
	Auto image	Wide				Wide



Level 1	Level 2	Level 3 (Or List)	Level 4 (Or List)	Level 5 (Or List)	Level 6 (Or List)	Default
		Active Source				
		Signal Format				
		Aspect Ratio				
	Source Info	Resolution				
		Vert Refresh				
Screen		Horz Refresh				
		Pixel Clock				
		Sync Type				
		Color Space				
		PIP/PBP				
		(When PIP/PBP active)				



Level 1	Level 2	Level 3 (Or List)	Level 4 (Or List)	Level 5 (Or List)	Level 6 (Or List)	Default
		English 0				
		Simplified Chinese 1				-
		French 2				
		German 3				
	Language	Italian 4				English
		Japanese 5				
		Korean 6				
		Russian 7				
		Spanish 8				
		Left Top				
Cottingo		Right Top				
Settings	Menu Location	Center				Left Top
		Left Bottom				
		Right Bottom				
	LAN (Standby)	0.5W mode				
		Communication mode				Communication
		None				
		Grid				
	D	White				
	Test Pattern	Black				None
		Checkerboard				
		Color Bars				
		On				
	Direct Power On	Off				Off
		Blank Screen				
		Aspect Ratio				
Settings	Hot-Key settings	Freeze Screen				Blank Screen
		Projector Info				-
		Yes				
	Reset to Default	No				
	Service					



Level 1	Level 2	Level 3 (Or List)	Level 4 (Or List)	Level 5 (Or List)	Level 6 (Or List)	Default
		Constant Power				
	Light Source Mode	Constant Intensity				Constant Power
	Mode	ECO 1 (80%)				
Light source		ECO 2 (50%)				
5	Constant Power	0 to 99 (30% to 100%)				99
	Light Source Info	Total Projector Hours				
	Inio	LD Hours				
	Splash Screen	Factory Logo				
		Blue				Default Value
		Black				
		White				
	Auto shutdown	0~120 (one step: 5 mins)				0
	Sleep Timer	0~990 (one step: 10 mins)				0
Options		Focus	Command			
		Zoom	Command			
	Lens settings	Lens Shift	Command			
	Lens settings	Lock lens motors	Allow			Allow
			Locked			Allow
		Lens calibration	Command			
	High Altitude	On				Off
		Off				



Level 1	Level 2	Level 3 (Or List)	Level 4 (Or List)	Level 5 (Or List)	Level 6 (Or List)	Default
		Convertity	On			0.55
	PIN Protect	Security	Off			Off
		Change Password				
		Top	Off			0.7
		Тор	On			On
		Front	Off			0.7
	Remote Settings	Front	On			On
	j.		Off			0.7
		HDBaseT	On			On
		Projector Address	0~9			0
	Information	On				0.66
	Hide	Off				Off
		Keypad	Always On			
	Backlight Preferences	Backlight	Always Off			Always On
		Status LED	Always On			
Options			Always Off			Always On
			Warning/Errors only			
		Model Name				
		Serial Number				
		Native Resolution				
		MCU FW				
		DDP FW				
		M9813 FW				
	Information	Motor FW				
		PW808 FW				
		Main Input				
		Main Signal Format				
		Main Pixel Clock				
		Main Sync Type				
		Main Horz Refresh				



Level 1	Level 2	Level 3 (Or List)	Level 4 (Or List)	Level 5 (Or List)	Level 6 (Or List)	Default
Options		Main Vert Refresh				
		PIP/PBP Input				
	Information	PIP/PBP Signal Format				
		PIP/PBP Pixel Clock				
		PIP/PBP Sync Type				
		PIP/PBP Horz Refresh				
		PIP/PBP Vert Refresh				
		Light Source Power				
		Total Projector Hours				
		Light Source Hours				
		Standby Mode				
		Lens Lock Settings				
		IP Address				
		DHCP				
		System Temperature				
3D	3D	On				Auto
		Auto				
	3D Invert	On				Off
		Off				
	3D Format	Frame Packing				Depends on input signal. If an HDMI source with AVINFO data existed then display 3D mode automatically.
		Side-by-Side (Half)				
		Top and Bottom				
		Frame Sequential (635- GS)				
	1080p @ 24	96Hz				- 144Hz
		144Hz				



Level 1	Level 2	Level 3 (Or List)	Level 4 (Or List)	Level 5 (Or List)	Level 6 (Or List)	Default
3D	3D Sync Out	To emitter				To Emitter
		To Next				
		Projector				
	Frame Delay	1~ 200				
	L/R Reference	1st Frame				
		Field GPIO				
	LAN	DHCP				
		IP Address				By set
		Subnet Mask				
		Default Gateway				
		MAC Address				
	Network	Projector Name				By set
		Show Network Messages				
		Restart Network				
		Network Factory Reset				
Communicati	Serial Port Baud Rate	1200				115200
ons		2400				
		4800				
		9600				
		14400				
		19200				
		38400				
		57600				
		115200				
	Serial Port Echo	Off				Off
		On				
	Serial Port Path	RS232				RS232
		HDBaseT				

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