USER MANUAL

020-000816-01

CAPTIVA

DUW350S/DHD400S



CHKISTIE°

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.

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USAGE NOTICE

1.1 COPYRIGHT AND TRADEMARKS

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1.2 Safety Information



The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the projector.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PROJECTOR TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Class B emissions limits

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Important Safety Instruction

- 1. Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed and so on. Do not put the projector in an enclosure such as a bookcase or a cabinet that restricts air flow.
- Do not use the projector near water or moisture. To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture.
- 3. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
- 4. Clean only with dry cloth.
- 5. Only use attachments/accessories specified by the manufacturer.
- Do not use the unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
 - Unit has been dropped.
 - Power supply cord or plug has been damaged.
 - Liquid has been spilled on to the projector.
 - Projector has been exposed to rain or moisture.
 - Something has fallen in the projector or something is loose inside.

Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards.

Section 1: USAGE NOTICE



- 7. Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
- 8. See projector enclosure for safety related markings.
- 9. The unit should only be repaired by appropriate service personnel.



1.3 Precautions



Follow all warnings, precautions and maintenance as recommended in this user's guide.

▲ WARNING

- Do not look into the projector's lens when the lamp is on. The bright light may hurt and damage your eyes.
- 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.



Do:

- Turn off and unplug the power plug from the AC outlet before cleaning the product.
- Use a soft dry cloth with mild detergent to clean the display housing.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.
- Use a plat beneath the projector while portrait orientation to meet safety requirement.

Do not:

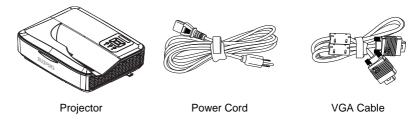
- Block the slots and openings on the unit provided for ventilation.
- · Use abrasive cleaners, waxes or solvents to clean the unit.
- Use under the following conditions:
 - In extremely hot, cold or humid environments.
 - ► Sea level to 6000 feet Extremely hot: > 35°C Extremely cool: < 5°C
 - 6000 feet above Extremely hot: > 30°C Extremely cool: < 5°C</p>
 - ▶ Extremely humid: > 70% R.H. (Relative Humidity)
 - In areas susceptible to excessive dust and dirt.
 - Near any appliance generating a strong magnetic field.
 - In direct sunlight.



2. INTRODUCTION

2.1 Package Overview

Unpack and inspect the box contents to ensure all parts listed below are in the box. If something is missing, contact your customer service center.



Documentation:

✓ User's Manual & Quick Start Guide

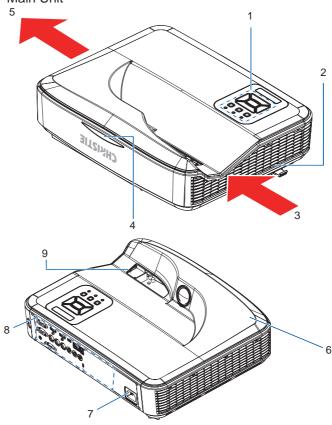
NOTE:

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



2.2 Product Overview

2.2.1 Main Unit



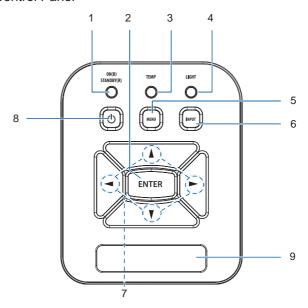
Ind.	Part Name	Ind.	Part Name
1	Control Panel	6	Speaker
2	Focus switch	7	Power Socket
3	Ventilation (inlet)	8	Input/Output Connections
4	IR Receiver	9	Lens
5	Ventilation (outlet)		

NOTE:

* The interface is subject to model's specifications.



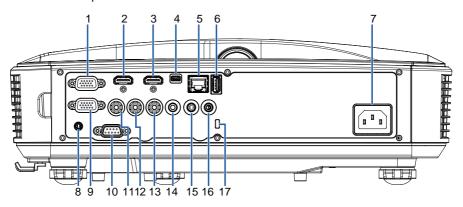
2.2.2 Control Panel



Ind.	Part Name
1	Power LED
2	Enter
3	Temp LED
4	Lamp LED
5	Menu
6	Input
7	Four Directional Select keys
8	Power/Standby button
9	IR Receiver



2.2.3 Output Connections



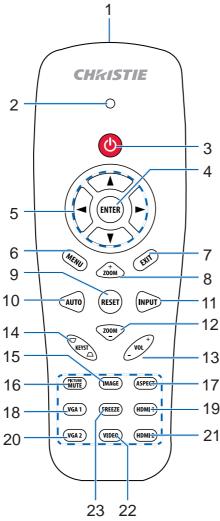
Ind.	Connector Name	Ind.	Connector Name
1	VGA1-In/YPbPr Connector (PC Analog Signal/Component Video Input/HDTV/YPbPr)	10	RS-232 Connector (9-pin DCE type)
2	HDMI2 Input Connector	11	Composite Video Input Connector
3	HDMI1 Input Connector	12	Composite Audio Input (right) Connector
4	USB Connector (Connect PC for firmware upgrade or interactive)	13	Composite Audio Input (left) Connector
5	RJ45 connector	14	Audio Output Connector (3.5mm mini jack)
6	USB Type A Connector	15	Audio Input Connector (3.5mm mini jack)
7	Power Socket	16	Audio Input Connector (microphone)
8	Interactive Connector (3.5 mm mini jack)	17	KensingtonTM Lock Port
9	VGA-Out/VGA2-In Connector		

NOTE:

Monitor loop through only support in VGA1-In/YPbPr.



2.2.4 Remote Control



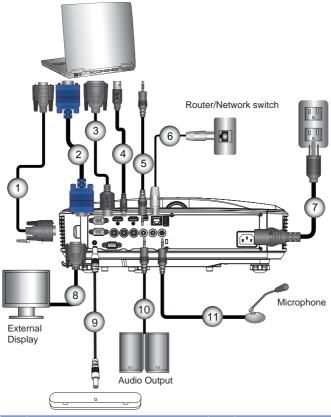
Ind.	Part Name
1	Infrared transmitter
2	LED Indicator
3	Power On/Off
4	Enter
5	Four Directional Select keys
6	Menu
7	Exit
8	Zoom in
9	Reset
10	Auto
11	Input
12	Zoom out
13	Volume +/-
14	Keystone +/-
15	Image
16	Picture mute
17	Aspect ratio
18	VGA1
19	HDMI1
20	VGA2
21	HDMI2
22	Video
23	Screen freeze



3. INSTALLATION

3.1 Connecting the Projector

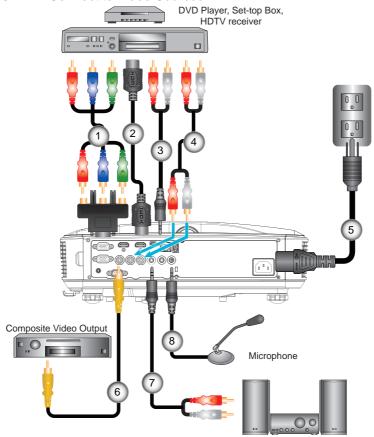
3.1.1 Connect to Computer/Notebook



Ind.	Connector Name	Ind.	Connector Name
1	RS232 Cable	7	Power Cord
2	VGA Cable	8	VGA Output Cable
3	HDMI Cable	9	DC to DC Cable
4	USB Cable	10	Audio Output Cable
5	Audio Cable/RCA	11	Audio Input Cable
6	RJ45 Cable		



3.1.2 Connect to Video Sources



Audio Output

Ind.	Connector Name	Ind.	Connector Name
1	15-Pin to 3 RCA Component/HDTV Adaptor	5	Power Cord
2	HDMI Cable	6	Composite Video Cable
3	Audio Cable	7	Audio Cable/RCA
4	Audio Cable/RCA	8	Audio Input Cable



3.2 Powering the Projector On/Off

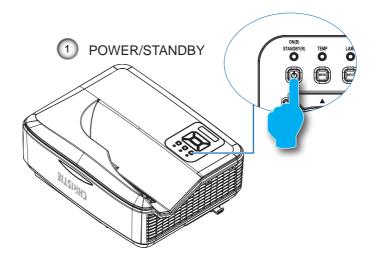
3.2.1 Powering On the Projector

- 1. Securely connect the power cord and signal cable. When connected, the POWER/STANDBY LED turns Orange.
- 2. Turn on the projector by pressing "U" button either on the projector or on the remote. At this moment, the POWER/STANDBY LED turns Blue. •
- The startup screen will display in approximately 5 seconds. The first time you use the projector, you will be asked to select the preferred language and power saving mode.
- Turn on and connect the source that you want to display on the screen (computer, notebook, video player, etc). The projector detects the source automatically. If not, push menu button and go to "OPTIONS".

Make sure that the "Source Lock" has been set to "Off".

NOTE:

- If you connect multiple sources at the same time, press the "INPUT" button on the control panel or direct source keys on the remote control to switch between inputs.
- When the power mode is in standby mode (power consumption < 0.5W), the VGA output/input and audio are deactivated when the projector is in standby.





3.2.2 Powering off the projector

 Press the "U" button on the remote control or on the control panel to turn off the projector. The following message will be displayed on the screen.



Press the "**U**" button again to confirm otherwise the message will disappear after 10 seconds. When you press the "**U**" button for the second time, the fan will start cooling the system and will shut down.

 The cooling fans continue to operate for about four seconds for cooling cycle and the POWER/STANDBY LED will flash Orange. When the POWER/STANDBY LED lights solid Orange, the projector has entered standby mode.

If you want to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, press "**U**" button to restart the projector.

3. Disconnect the power cord from the electrical outlet and the projector.

3.2.3 Warning Indicator

When the warning indicators (see below) come on, the projector will automatically shutdown:

- "LAMP" LED indicator is lit red and if "POWER/STANDBY" indicator flashes amber.
- "TEMP" LED indicator is lit red, this indicates the projector has overheated. Under normal conditions, the projector can be switched back on.
- "TEMP" LED indicator flashes red and if "POWER/STANDBY" indicator flashes amber.

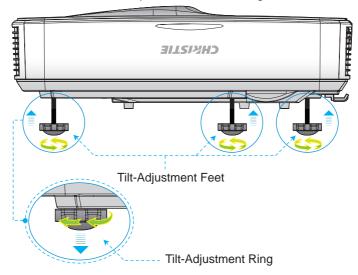
Unplug the power cord from the projector, wait for 30 seconds and try again. If the warning indicator light up again, contact your service center for assistance.



3.3 Adjusting the Projected Image

- 3.3.1 Adjusting the Projector's Height

 The projector is equipped with elevator feet for adjusting the image height.
 - 1. Locate the adjustable foot you want to modify on the underside of the projector.
 - 2. Rotate the adjustable ring clockwise to raise the projector or counter clockwise to lower it. Repeat with the remaining feet as needed.

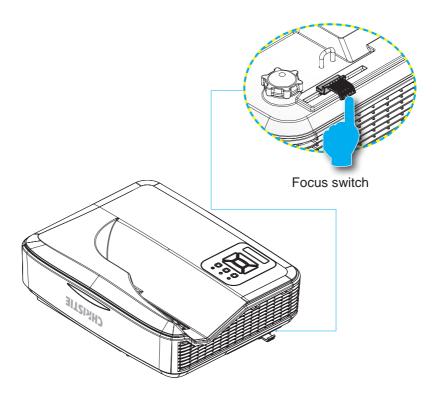




3.3.2 Adjusting the Projector's Focus

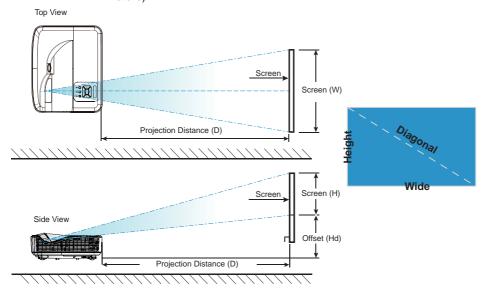
To focus the image, slide the focus switch to left/right until the image is clear.

- 1080p series: The projector will focus at distances from 1.443 to 1.887 feet (0.437 to 0.572 meters).
- Ultra Wide series: The projector will focus at distances from 1.413 to 1.884 feet (0.428 to 0.571 meters).





- 3.3.3 Adjusting Projection Image Size (Diagonal)
 - 1080p series: Projection Image Size from 80" to 100" (2.03 to 2.54 meters).
 - Ultra Wide series: Projection Image Size from 120" to 140" (3.05 to 3.56 meters).





Diagonal length		Screen S	ize W x H		Projection Distance (D)				Offset (Hd)	
(inch) size of			(inch)		(mm)		(inch)		Oliset (Hu)	
16:9 Screen	Width	Height	Width	Height	wide	tele	wide	tele	(mm)	(inch)
87	192.6	108.3	75.8	42.6	23.3	NA	9.2	NA	28.9	11.4
90	199.2	112.1	78.4	44.1	24.9	NA	9.8	NA	29.6	11.7
95	210.3	118.3	82.8	46.6	27.7	NA	10.9	NA	30.9	12.2
100	221.4	124.5	87.2	49.0	30.5	NA	12.0	NA	32.2	12.7
102	225.8	127.0	88.9	50.0	31.6	NA	12.4	NA	32.7	12.9



DUW350S

Diagonal length		Screen S	ize W x H		Projection Distance (D)				Officet (IId)	
(inch) size of			(inch)				(inch)		Offset (Hd)	
16:9 Screen	Width	Height	Width	Height	wide	tele	wide	tele		(inch)
120	285.4	107.0	112.4	42.1	46.7	NA	18.4	NA	36.9	14.5
125	297.3	111.5	117.0	43.9	49.7	NA	19.6	NA	38.2	15.0
130	309.2	115.9	121.7	45.6	52.6	NA	20.7	NA	39.5	15.6
135	321.1	120.4	126.4	47.4	55.6	NA	21.9	NA	40.8	16.1
140	333.0	124.9	131.1	49.2	58.6	NA	23.1	NA	42.0	16.5

NOTE

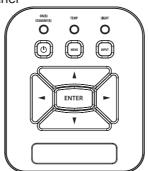
^{*} This table is for user's reference only.



4. USER CONTROLS

4.1 Control Panel & Remote Control

4.1.1 Control Panel



Using the Control Panel

POWER	(1)	Refer to the "F pages 16-17.	Power	On/Off the	Projector"	section	on
FOWER	\mathbf{O}	pages 16-17.					

Enter	Press Enter to confirm your item selection.
INPUT	Press INPUT to select an input signal.
MENU	Press MENU to launch the on-screen display (OSD) menu. To exit OSD, press MENU again.
Four Directional Select Keys	Use ▲ ▼ ◀▶ to select items or make adjustments to your selection.
LAMP LED	Refer to the LED indicator of the projector light source status.
TEMP LED	Refer to the LED indicator of the projector temperature status.
ON/STANDBY LED	Refer to the LED indicator of the projector power status.

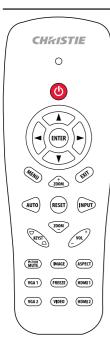


4.1.2 Remote Control



Using the Remote Control	
Infrared transmitter	Sends signals to the projector.
LED	LED Indicator.
Power (b)	Refer to the "Power On/Off the Projector" section on pages 16-17.
Exit	Press "Exit" to close the OSD menu.
Zoom in	Zoom in the projector display.
Reset	Return the adjustments and settings to the factory default values (except for lamp counter).
Zoom out	Zoom out the projector display.
Enter	Confirm your item selection.
Input	Press "Input" to select an input signal.
Auto	Automatically synchronizes the projector to the input source.
Four Directional Select Keys	Use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection.
Keystone +/-	Adjust image distortion caused by tilting the projector.
Volume +/-	Adjust to increase/decrease the volume.
Aspect ratio	Use this function to choose your required aspect ratio.
Menu	Press "Menu" to launch the on-screen display (OSD) menu. To exit OSD, press "Menu" again.





Using the Remote Control	
VGA1	Press "VGA1" to choose VGA IN 1 connector.
Black screen	Momentarily turns off/on the audio and video.
HDMI1	Press "HDMI1" to choose HDMI IN 1 connector.
HDMI2	Press "HDMI2" to choose HDMI IN 2 connector.
VGA2	Press "VGA2" to choose VGA IN 2 connector.
Video	Press "Video" to choose Composite video source.
Screen freeze	Pause the screen image. Press again to resume the screen image.
Image	Select the display mode from Bright, PC, Movie, Game, and User.



4.2 On-screen Display Menus

The Projector has multilingual On-screen Display menus that you can use to make image adjustments and change a variety of settings.

4.2.1 How to operate

- To open the OSD menu, press "Menu" on the Remote Control or Projector Keypad.
- When OSD is displayed, use the ▲ ▼ keys to select any item in the main menu. While making a selection on a particular page, press the ▶ or "Enter" key to enter sub menu.
- 3. Use the ▲ ▼ keys to select the desired item and adjust the settings using the ◀ ▶ key.
- Select the next item to be adjusted in the sub menu and adjust as described above.
- 5. Press "Enter" to confirm, and the screen will return to the main menu.
- To exit, press "Menu" again. The OSD menu will close and the projector will automatically save the new settings.





4.2.2 **Image**



Color Mode

There are many factory presets optimized for various types of images. Use the ◀ or ▶ button to select the item.

- Bright: For brightness optimization.
- · PC: For meeting presentation.
- Movie: For playing video content.
- · Game: For game content.
- User: Memorize user's settings.

Wall Color

Use this function to obtain an optimized screen image according to the wall color. You can select from "White", "Light Yellow", "Light Blue", "Pink", and "Dark Green".

Brightness

Adjust the brightness of the image.

- Press the ▶ button to darken image.

Contrast

The Contrast controls the difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.

- Press the ▶ button to increase the contrast.



Sharpness

Adjust the sharpness of the image.

- Press the ▶ button to increase the sharpness.

Saturation

Adjust a video image from black and white to fully saturated color.

- Press the

 button to decrease the amount of saturation in the image.
- Press the ▶ button to increase the amount of saturation in the image.

Hue

Adjust the color balance of red and green.

- Press the ▶ button to increase the amount of red in the image.

Gamma

This allows you to adjust the gamma value to obtain the better image contrast for the input.

NOTE:

Sharpness, Saturation and Hue functions are only supported under video mode.



4.2.3 Configuration



Aspect Ratio

- Auto: Keep the image with original width-height ratio and maximize the image to fit native horizontal or vertical pixels.
- 4:3: The image will be scaled to fit the screen and displayed using a 4:3 ratio.
- 16:9: The image will be scaled to fit the width of the screen and the height adjusted to display the image using a 16:9 ratio.
- 16:10: The image will be scaled to fit the width of the screen and the height adjusted to display the image using a 16:10 ratio. (only for DHD400S).
- UWHD: The image will be scaled to fit the width of the screen and the height adjusted to display the image using a 16:6 ratio (only for DUW350S).

Phase

Synchronize the signal timing of the display with the graphic card. If the image appears unstable or flickers, use this function to correct it.

Clock

Adjust to achieve an optimal image when there is a vertical flicker in the image.

H. Position

- Press the ▶ button to move the image right.



V. Position

- Press the

 button to move the image down.
- Press the ▶ button to move the image up.

Digital Zoom

- Press the ▶ button to magnify an image on the projection screen.

V. Keystone

Press the ◀ or ▶ button to adjust image distortion vertically. If the image looks trapezoidal, this option can help make the image rectangular.

Orientation

- · Front: The image is projected straight on the screen.
- Front Ceiling: This is the default selection. When selected, the image will turn upside down.
- Rear: When selected, the image will appear reversed.
- Rear Ceiling: When selected, the image will appear reversed in upside down position.

NOTE:

. H. Position and V. Position ranges will depend on input source.



4.2.4 Settings



Language

Choose the multilingual OSD menu. Press the \blacktriangleleft or \blacktriangleright button into the sub menu and then use the \blacktriangle or \blacktriangledown button to select your preferred language. Press \blacktriangleright on the remote control to finalize the selection.



OSD Position

Choose the menu location on the display screen.

Closed Caption

Use this function to enable close caption menu. Select an appropriate closed captions option: Off, CC1, CC2, CC3, and CC4.

VGA Output (Standby)

Choose "On" to enable VGA OUT connection.



LAN (Standby)

Choose "On" to enable LAN connection. Choose "Off" to disable LAN connection.

VGA-2 (Function)

- Input: Choose "Input" to let the VGA port works as a VGA input function.
- Output: Choose "Output" to enable the VGA Out function once the projector is powered on.

Test Pattern

Display a test pattern.

Factory Reset

Choose "Yes" to return the parameters on all menus to the factory default settings.



4.2.5 Audio



Speaker

- · Choose "On" to enable the speaker.
- · Choose "Off" to disable the speaker.

Line Out

- Choose "On" to enable the line out function.
- Choose "Off" to disable the line out function.

<u>Microphone</u>

- Choose "On" to enable the microphone.
- · Choose "Off" to disable the microphone.

Mute

- · Choose "On" to turn mute on.
- · Choose "Off" to turn mute off.

Volume

- Press the ▶ button to increase the volume.

Microphone Volume

- Press the ▶ button to increase the microphone volume.



4.2.6 Options



Logo

Use this function to set the desired startup screen. If changes are made they will take effect the next time the projector is powered on.

- · Default: The default startup screen.
- · User: Use stored picture from "Screen Capture" function.

Screen Capture

Press ▶ button to capture an image of the picture currently displayed on screen.



NOTE:

- For successful logo capture, ensure that the on-screen image does not exceed the projector's native resolution. (1080P: 1920x1080 / UWHD: 1920x720).
- * "Screen Capture" is not available when 3D is enabled.
- ❖ Before active this function, it is recommended that "Aspect Ratio" is set to the "Auto".

Auto Source

- On: The projector will search for other signals if the current input signal is lost.
- Off: The projector will only search current input connection.



Input

Press ▶ button to enable/disable input sources. The projector will not search for inputs that are not selected.



Auto Power Off (Min)

Sets the countdown timer interval. The countdown timer will start, when there is no signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).

Laser Settings

Refer to page 35.

High Altitude

- On: The built-in fans run at high speed. Select this option when using the projector at altitudes above 2500 feet/762 meters or higher.
- Off: The built-in fans automatically run at a variable speed according to the internal temperature.

Filter Alarm (Hour)

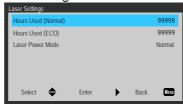
- · Filters Alarm (Hour): Set the filter reminder time.
- Cleaning Up Reminder: Select "Yes" to reset the dust filter hour counter after replacing or cleaning the dust filter.

Information

Display the projector information for model name, SNID, source, resolution, software version, and aspect ratio on the screen.



4.2.7 Options | Laser Settings



Hours Used (Normal)

Display the projection time of normal mode.

Hours Used (ECO)

Display the projection time of ECO mode.

Laser Power Mode

- · Normal: Normal mode.
- ECO: Use this function to dim the projector lamp which will lower power consumption and extend the lamp life.



4.2.8 3D



3D

- Auto: When a HDMI 1.4a 3D timing identification signal is detected, the 3D image is selected automatically.
- · Choose "On" to enable 3D function.
- · Choose "Off" to disable 3D function.

3D Invert

If you see a discrete or overlapping image while wearing DLP 3D glasses, you may need to execute "Invert" to get best match of left/right image sequence to get the correct image.

3D Format

Use this feature to select the 3D format. Options are: "Frame Packing", "Side-by-Side (Half)", "Top and Bottom", "Frame Sequential", and "Field Sequential".

1080p@24

Use this feature to select 96 or 144Hz refresh rate as using 3D glasses in the1080p @ 24 frame packing.

NOTE:

- * "Frame Sequential" is supported the DLP Link 3D input signals from VGA/HDMI connector.
- * "Frame Sequential"/"Field Sequential" are supported the HQFS 3D input signals from Video connector.
- "Frame Packing"/"Side by Side(Half)" / "Top and Bottom" are supported from HDMI 1.4a 3D input signals.



4.2.9 Interactive



Interactive Settings

- · Choose "On" to enable Interactive function.
- · Choose "Off" to disable Interactive function.

You must to unplug the Mini USB cable that connects NB/desktop with the projector before using the Interactive function. After you complete the Interactive Settings in OSD, use Mini USB cable to connect NB/desktop with the projector.



4.2.10 LAN



Status

Display the network connection status.

DHCP

Configure the DHCP settings.

- On: Choose "On" to let the projector to obtain an IP address automatically from your network.
- Off: Choose "Off" to assign IP, Subnet Mask, Gateway, and DNS configuration manually.

IP Address

Display an IP address.

Subnet Mask

Display the subnet mask number.

Gateway

Display the default gateway of the network connected to the projector.

DNS

Display the DNS number.

MAC Address

Display the MAC address.



Group Name

Display the group name.

Projector Name

Display the projector name.

Location

Display the projector location.

Contact

Display the contact information.



How to use web browser to control your projector

 Turn on DHCP to allow a DHCP server to automatically assign an IP, or manually enter the required network information.



- 2. Choose apply and press OK button to complete the configuration process.
- Open your web browser and type the IP Address from the OSD LAN screen. The web page will display as below:



NOTE:

When you used the projector IP address, you will can not link to your service server. 4. Based on network web-page for the input-string in [tools] tab, the limitation for Input-Length is in the below list ("space" and the other punctuation key included):

Category	Item	Input-Length (characters)
	IP Address	15
Crestron Control	IP ID	2
	Port	5
	Projector Name	10
Projector	Location	9
	Assigned To	9
	DHCP (Enabled)	(N/A)
	IP Address	15
Network	Subnet Mask	15
Configuration	Default Gateway	15
	DNS Server	15
	Enabled	(N/A)
User Password	New Password	15
	Confirm	15
	Enabled	(N/A)
Admin Password	New Password	15
	Confirm	15





When making a direct connection from your computer to the projector

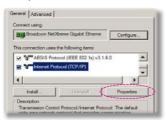
Step 1: Find an IP Address (192.168.0.100) from LAN function of projector.



- Step 2: Select apply and press "Enter" button to submit function or press "menu" key to exit.
- Step 3: To open Network Connections, click Start, click Control Panel, click Network and Internet Connections, and then click Network Connections. Click the connection you want to configure, and then, under Network Tasks 1, click Change settings of this connection.
- Step 4: On the **General** tab, under

 This connection uses the
 following items, click Internet

 Protocol (TCP/IP), and then click
 "Properties."



- Step 5: Click **Use the following IP** address, and type as below:
 - 1) IP address: 192.168.0.100
 - Subnet mask: 255.255.255.0
 Default gateway: 192.168.0.254



Step 6: To open Internet Options, click IE web browser, click Internet Options, click the **Connections** tab and click "LAN Settings...".



Step 7: The Local Area Network (LAN)
Setting dialog appears. In the
Proxy Server area, cancel the
Use a proxy server for your LAN
checkbox, then click "OK" button
twice.



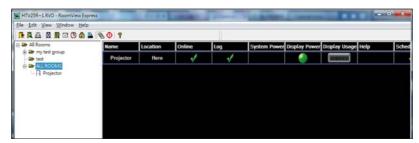
Step 8: Open Internet Explorer and type the IP address 192.168.0.100 in the address box. Press Enter.



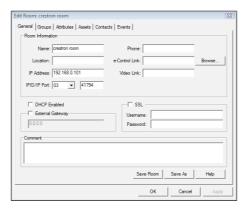
Crestron RoomView Control Tool

Crestron RoomView™ provides a central monitoring station for 250+ control systems on a single Ethernet network (more are possible, the number depends on the combination of IP ID and IP address). Crestron RoomView monitors each projector, including projector's online status, system power, lamp life, network setting and hardware faults, plus any custom attribute as defined by the Administrator. The Administrator can add, delete, or edit room information, contact information and events, which are logged automatically by the software for all users. (Operation UI as following image)

1. Main Screen



2. Edit Room



Crestron RoomView's function is set according to the products' models and specifications.



3. Edit Attribute



4. Edit Event



For further information, please visit:

http://www.crestron.com & www.crestron.com/getroomview.



MULTIMEDIA

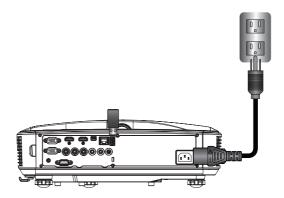
5.1 Accessing Multimedia Files

This projector supports two methods to project the media files (photos, videos, music, documents) stored on following devices:

- WIFI dongle wirelessly access the media files stored on your mobile phone, tablet PC, notebook, or desktop.
- b. USB flash drive directly access the media files stored in the device.

5.1.1 How to access Multimedia mode

1. Plug a wireless dongle or a USB flash drive into the USB connector at the back of projector.



 Press "INPUT" on the remote control or on the control panel to turn on the projector. When the Input menu appears, press the ▲ ▼ keys to select "Multimedia" and the "Enter" key to confirm.

NOTE:

Suggest to have the WIFI dongle with Realtek RTL8192CU chipset. The recommended WIFI dongles are WL-7200-V1, Abocom WU5508, EDUP EP-N1528.



Mobile Display

To access the media files stored on your mobile device or tablet PC, do the folllowing:

1. On Multimedia menu, select Mobile/Tablet.



2. On your mobile device or tablet PC, download "EZview" application App Store (iOS) or Play Store (Android).



- Enable your mobile device or tablet PC WiFi function, and search the AP name listed in the Wi-Fi network list.
- On the initial connection, you will be prompted to enter a password. Enter the password.
- 5. Launch "EZview" application and enter the PCTOOL password.
- 6. Wait until the connection is established. The media files on your mobile device or tablet PC can be accessed using the projector.



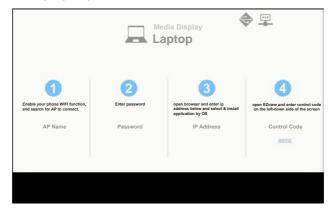
Laptop Display

To access the media files stored on your laptop/notebook, do the folllowing:

1. On *Multimedia* menu, select Laptop.



Enable your laptop/notebook WiFi function, and search the AP name listed in the Wi-Fi network list.



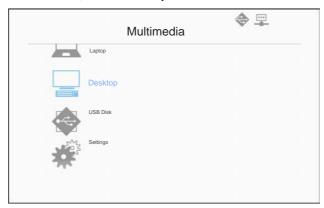
- 3. On the initial connection, you will be prompted to enter a password. Enter the password.
- Open your web browser and type the IP address. Then select "Wifi" on the left side of the screen and install application required by the operation system.
- Launch "EZview" application and enter the control code shown on the rightbottom side of the screen.
- Wait until the connection is established. The media files on your laptop/ notebook can be accessed using the projector.



Desktop Display

To access the media files stored on your desktop, do the following:

1. On *Multimedia* menu, select **Desktop**.



2. Open your web browser and enter the IP address. Then select "Wifi" on the left side of the screen and install application required by the operation system.



- 3. Launch "EZview" application and type the control code shown on the right-bottom side of the screen.
- 4. Wait until the connection is established. The media files on your desktop can be accessed using the projector.

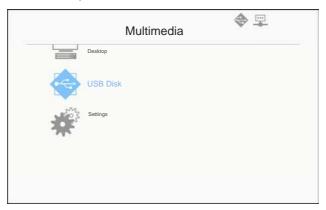


USB Storage Display

To access the media files stored on your USB flash drive, do the following:

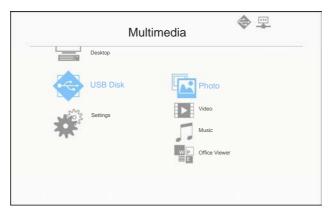
Supported File Format			
Multimedia Category	File Format		
Photo	BMP, JPG, PNG		
Music	MP3, WMA		
Video	AVI, MOV, MP4, RM, RMVB, DAT, MPG, ISO, TS, MKV, VOB, and WMV		
Document	WORD, EXCEL, PPT, PDF		

1. On Multimedia menu, select USB Disk.



2. Use the \blacktriangle \blacktriangledown keys to select the file category and press the "Enter" key.





 Use the ▲ ▼ keys to select the file to view/play and press the "Enter" key to confirm.

Configuring Multimedia Settings

To change the settings, do the following:

1. On Multimedia menu, select Settings.



2. Use the \blacktriangle \blacktriangledown keys to select the desired menu option and press the "Enter" key to enter the submenu.





- System: Select this option to view the firmware version and update firmware.
- Video: Select this option to change the display ratio and set the repeat mode.
- Photo: Select this option to change the display ratio, slideshow pattern, and slideshow duration.
- Music: Select this option to set the repeat mode.
- WiFi: Select this option to configure the Wi-Fi connection.
- Use the ▲ ▼ keys to select the adjust/select the setting and press the "Enter" key to confirm.



APPENDICES

6.1 Installing and Cleaning the Optional Dust Filter

We recommend you clean the dust filter every 500 hours of operation, or more often if you are using the projector in a dusty environment.

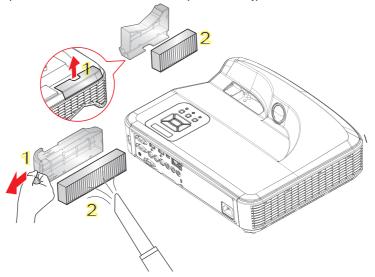
When the warning message appears on the screen, do the following to clean the air filter:

The usage time of the dust filter is reached.

Please clean the dust filters for better performance.

NOTE:

- * The optional dust filter should be used in dusty environments.
- If the dust filter is installed, a proper maintenance will prevent overheating and projector malfunction.
- * The dust filter is optional.
- The specific interfaces are selected in terms of the specifications of types.



Air Filter Cleaning Procedure:

- 1. Power off the projector by pressing the "to" button and unplug the power cord.
- 2. Pull out the dust filter, as shown in the illustration (1).
- 3. Carefully remove the dust filter. Then clean or change the filter in illustration (2).

To install the filter, reverse the previous steps.

4. Turn on the projector and reset the filter usage counter after the dust filter is replaced.



6.2 Compatibility Modes

6.2.1 VGA Analog

a. PC signal				
Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]	
	640x480	60	31.5	
	640x480	67	35.0	
VGA	640x480	72	37.9	
	640x480	75	37.5	
	640x480	85	43.3	
IBM	720x400	70	31.5	
	800x600	56	35.1	
	800x600	60	37.9	
SVGA	800x600	72	48.1	
	800x600	75	46.9	
	800x600	85	53.7	
Apple, MAC II	832x624	75	49.1	
	1024x768	60	48.4	
	1024x768	70	56.5	
XGA	1024x768	75	60.0	
	1024x768	85	68.7	
	1024x768	120	99.0	
Apple, MAC II	1152x870	75	68.7	
	1280x1024	60	64.0	
SXGA	1280x1024	72	77.0	
	1280x1024	75	80.0	
QuadVGA	1280x960	60	60.0	
QuauvGA	1280x960	75	75.2	
SXGA+	1400x1050	60	65.3	
UXGA	1600x1200	60	75.0	



b. Extended wide timing				
Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]	
	1280x720	60	44.8	
WXGA	1280x800	60	49.6	
VVAGA	1366x768	60	47.7	
	1440x900	60	59.9	
WSXGA+	1680x1050	60	65.3	
UWHD	1920x720	60	44.35	
c. Component	signal			
Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]	
480i	720x480 (1440x480)	59.94(29.97)	15.7	
576i	720x576 (1440x576)	50(25)	15.6	
480p	720x480	59.94	31.5	
576p	720x576	50	31.3	
7205	1280x720	60	45.0	
720p	1280x720	50	37.5	
1080i	1920x1080	60(30)	33.8	
10001	1920x1080	50(25)	28.1	
	1920x1080	23.98/24	27.0	
1080p	1920x1080	60	67.5	
	1920x1080	50	56.3	



6.2.2 HDMI Digital

a. PC signal				
Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]	
	640x480	60	31.5	
	640x480	67	35.0	
VGA	640x480	72	37.9	
	640x480	75	37.5	
	640x480	85	43.3	
IBM	720x400	70	31.5	
	800x600	56	35.1	
	800x600	60	37.9	
SVGA	800x600	72	48.1	
	800x600	75	46.9	
	800x600	85	53.7	
Apple, MAC II	832x624	75	49.1	
	1024x768	60	48.4	
	1024x768	70	56.5	
XGA	1024x768	75	60.0	
	1024x768	85	68.7	
	1024x768	120	99.0	
Apple, MAC II	1152x870	75	68.7	
	1280x1024	60	64.0	
SXGA	1280x1024	72	77.0	
	1280x1024	75	80.0	
QuadVGA	1280x960	60	60.0	
QuauvGA	1280x960	75	75.2	
SXGA+	1400x1050	60	65.3	
UXGA	1600x1200	60	75.0	



b. Extended wide timing				
Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]	
	1280x720	60	44.8	
	1280x800	60	49.6	
WXGA	1366x768	60	47.7	
	1440x900	60	59.9	
WSXGA+	1680x1050	60	65.3	
UWHD	1920x720	60	44.35	
c. Video signal				
Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]	
480p	640x480	59.94/60	31.5	
480i	720x480 (1440x480)	59.94(29.97)	15.7	
576i	720x576 (1440x576)	50(25)	15.6	
480p	720x480	59.94	31.5	
576p	720x576	50	31.3	
720p	1280x720	60	45.0	
720p	1280x720	50	37.5	
1080i	1920x1080	60(30)	33.8	
10001	1920x1080	50(25)	28.1	
	1920x1080	23.98/24	27.0	
1080p	1920x1080	60	67.5	
	1920x1080	50	56.3	
d. HDMI 1.4a r	mandatory 3D	timing- Video Signa	1	
Modes	Resolution	V. Frequency [Hz]	H. Frequency [Hz]	
F	720p	50	31.5	
Frame Packing	720p	59.94/60	15.7	
r doming	1080p	23.98/24	15.6	
Side-by-	1080i	50	31.5	
Side(Half)	1080i	59.94/60	31.3	
Top and	720p	50	45.0	
Top and Bottom	720p	59.94/60	37.5	
	1080p	23.98/24	33.8	



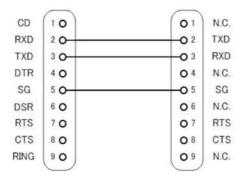
6.3 RS232 Commands and Protocol Function List

6.3.1 RS232 Port Setting

Items	Method
Communication Method	Asynchronous Communication
Bits per seconds	19200
Data bits	8 bits
Parity	None
Stop bits	1
Flow control	None

6.3.2 RS232 Signals Connection

Computer COM Port Projector COM Port (D-Sub 9pin connector) (D-Sub 9pin connector)



NOTE:

* RS232 shell is grounded.



6.3.3 Commands Set List

Command Description	Command	Projector Return	N value	Note
Power	(PWR n)	Pass : P Fail : F	0 : Off 1 : On	
Keypad	(KEY n)	Pass : P Fail : F	1: Up 2: Left 3: Right 4: Down 5: Menu 6: Source 7: Keystone+ 8: Keystone- 9: Volume+ 10: Volume-	
Resync	(RSC n)	Pass : P Fail : F	1	VGA only
AV Mute (Blank)	(AVM n)	Pass : P Fail : F	0 : Off 1 : On	
Freeze	(FRZ n)	Pass : P Fail : F	0 : Unfreeze 1 : Freeze	
Input Source	(SIN n)	Pass : P Fail : F	1: VGA 1 2: VGA 2 3: HDMI 1 4: HDMI 2 5: Video 6: Multimedia	
Color Mode	(PST n)	Pass : P Fail : F	1 : Bright 2 : PC 3 : Movie 4 : Game 5 : User	
Brightness	(BRT n)	Pass : P Fail : F	Value: 0~100	
Contrast	(CON n)	Pass : P Fail : F	Value: 0~100	
Sharpness	(SHA n)	Pass : P Fail : F	Video only	

Section 6: APPENDICES



Aspect Ratio	(ASP n)	Pass : P Fail : F	1 : Auto 2 : 4:3 3 : 16:9 4 : 16:10 / Ultra Wide	
Digital Zoom	(DZM n)	Pass : P Fail : F	0 : Zoom- 1 : Zoom+	
Keystone	(KST n)	Pass : P Fail : F	Value: -40 ~ 40	
Orientation	(SOR n)	Pass : P Fail : F	1 : Front 2 : Rear 3 : Front Ceiling 4 : Rear Ceiling	
Language	(LOC n)	Pass : P Fail : F	1 : English 2 : German 3 : Swedish 4 : French 5 : Arabic 6 : Dutch 7 : Norwegian 8 : Danish 9 : Simplified Chinese 10 : Polish 11 : Korean 12 : Russian 13 : Spanish 14 : Traditional Chinese 15 : Italian 16 : Portuguese 17 : Turkish 18 : Japanese	
Menu Location	(MSP n)	Pass : P Fail : F	1 : Top Left 2 : Top Right 3 : Center 4 : Bottom Left 5 : Bottom Right	
Reset	(RST n)	Pass : P Fail : F		
Mute	(MUT n)	Pass : P Fail : F	0 : Off 1 : On	
Volume	(VOL n)	Pass : P Fail : F	Value: 0~30	



Microphone Volume	(MIC n)	Pass : P Fail : F	Value: 0~30	
Auto Power Off (min)	(ASH n)	Pass : P Fail : F	Step = 5 (0,5,10,15,20 95,100,105,110,115, 120)	
High Altitude	(HAT n)	Pass : P Fail : F	0 : Off 1 : On	
Color Mode Read	(PST ?)	Pass :Okn Fail : F	n: 1 = Bright 2 = PC 3 = Movie 4 = Game 5 = User	
Aspect Ratio Read	(ASP ?)	Pass :Okn Fail : F	n: 1 = Auto 2 = 4:3 3 = 16:9 4 = 16:10 (Ultra Wide)	
Input Source (curr. src)	(SIN ?)	Pass :Okn Fail : F	n: 0 = None 1 = VGA1 2 = VGA2 3 = HDMI1 4 = HDMI2 5 = Video 6 = Multimedia	
Sofware Version	(VER ?)	Pass :Okddd Fail : F	ddd : FW version	
Status	(SST?)	Pass: Okabbbbbccdddee Fail : F	a = Power Status b = LD Hour c = Input Source d = Firmware Version e = Color mode	



6.4 Regulation & Safety Notices

This appendix lists the general notices of your projector.

FCC notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this projector.



Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

Remarque à l'intention des utilisateurs canadiens

Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

- EMC Directive 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC
- R & TTE Directive 1999/5/EC (if product has RF function)

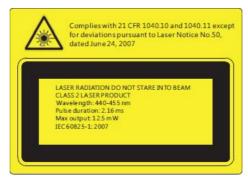
Disposal instructions



Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.



Safety Notice



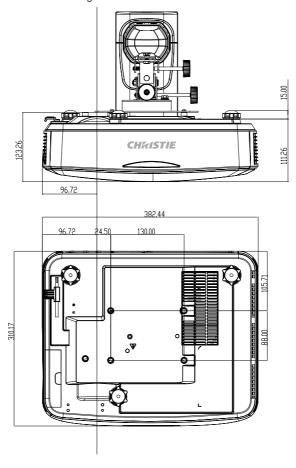
▲ WARNING

- This projector is a Class 2 laser device that conforms with IEC 60825-1:2007 and CFR 1040.10 and 1040.11.
- Class 2 laser product, Do Not Stare Into Beam.
- This projector has built-in Class 4 laser module. Disassembly or modification is very dangerous and should never be attempted.
- Any operation or adjustment not specifically instructed by the user's guide creates the risk of hazardous laser radiation exposure.
- Do not open or disassemble the projector as this may cause damage by the exposure of laser radiation.
- Do not stare into beam when the projector is on. The bright light may result in permanent eye damage.
- Without following the control, adjustment or operation procedure may cause damage by the exposure of laser radiation.
- Adequate instructions for assembly, operation, and maintenance, including clear warnings concerning precautions to avoid possible exposure to laser and collateral radiation in excess of the accessible emission limits in Class 2.



6.5 Ceiling Mount Installation

- 1. To prevent damage to your projector, please use ceiling mount (140-120104-01).
- 2. If you want to use a third-party ceiling mount kit, ensure the screws used to attach a mount to the projector meet the following specifications:
 - Screw type: M4*4
 - · Minimum screw length: 10mm



NOTE:

Damage resulting from incorrect installation will void the warranty.

▲ WARNING

- If you buy a ceiling mount from another company, be sure to use the correct screw size. Screw size will
 vary depending on the thickness of the mounting plate.
- Be sure to keep at least 10 cm gap between the ceiling and the bottom of the projector.
- Avoid installing the projector near a heat source.

Corporate offices

USA - Cypress ph: 714-236-8610

Canada - Kitchener ph: 519-744-8005

Consultant offices

Italy

ph: +39 (0) 2 9902 1161

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India ph: +91 (080) 6708 9999

Japan ph: 81-3-3599-7481

Korea (Seoul) ph: +82 2 702 1601

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United Kingdom ph: +44 118 977 8000



