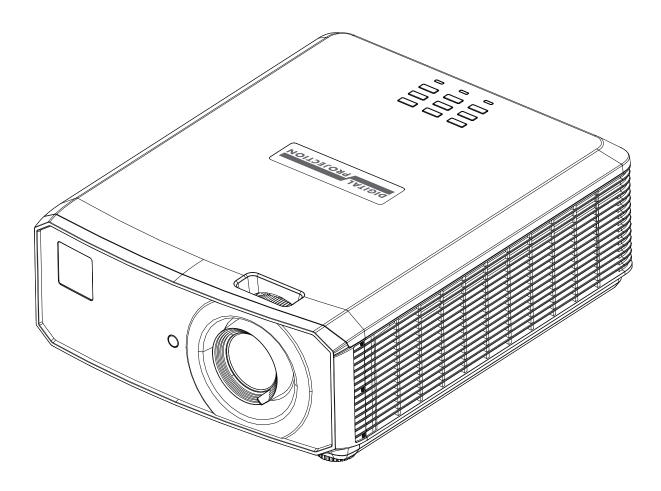


E-Vision Laser 6110 High Brightness Digital Video Projector

# **USER MANUAL**



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#### Important Safety Information

### ! Important:

It is strongly recommended that you read this section carefully before using the projector. These safety and usage instructions will ensure that you enjoy many years of safe use of the projector. **Keep this manual for future reference**.

#### Symbols Used

Warning symbols are used on the unit and in this manual to alert you of hazardous situations.

The following styles are used in this manual to alert you to important information.

Note:

Provides additional information on the topic at hand.

! Important:

Provides additional information that should not be overlooked.



Alerts you to situations that may damage the unit.



Alerts you to situations that may damage the unit, create a hazardous environment, or cause personal injury.

Throughout this manual, component parts and items in the OSD menus are denoted in bold font as in this example:

"Push the Menu button on the remote control to open the Main menu."

#### **General Safety Information**

- Do not open the unit case. There are no user-serviceable parts in the unit. For servicing, contact qualified service personnel.
- > Follow all warnings and cautions in this manual and on the unit case.
- > To avoid damage to eyes, do not look into the lens when the light source is on.
- > Do not place the unit on an unstable surface, cart, or stand.
- > Avoid using the system near water, in direct sunlight, or near a heating device.
- > Do not place heavy objects such as books or bags on the unit.

#### Notice

This product is intended for the adults who have the ability to operate this machine.

Please write down your projector model number and serial number and keep the information for maintenance purposes in the future. Should the equipment be lost or stolen, the information could also be used for the police report.

Model number:

Serial number:

## LASER WARNING



This symbol indicates that there is a potential hazard of eye exposure to laser radiation unless the instructions are closely followed.

#### CLASS 3R LASER PRODUCT



This Laser Product is designated as Class 3R during all procedures of operation. LASER LIGHT - AVOID DIRECT EYE EXPOSURE.

Do not point laser or allow laser light to be directed or reflected toward other people or reflective objects .

Direct or scattered light can be hazardous to eyes and skin.



There is a potential hazard of eye exposure to laser radiation if the included instructions are not followed.

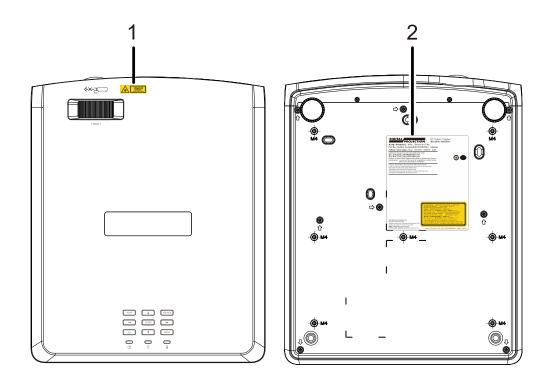
Caution – use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure

#### Laser Parameters

Wavelength	449nm - 461nm (Blue)
Mode of operation	Pulsed, due to frame rate
Pulse width	1.34ms
Pulse repetition rate	120Hz
Maximum laser energy	0.698mJ
Total internal power	>100w
Apparent source size	>10mm, at lens stop
Divergence	>100 mili Radian

#### **Product labels**

Below drawing show the label's location



**1.** Hazard Warning Symbol and Aperture Label

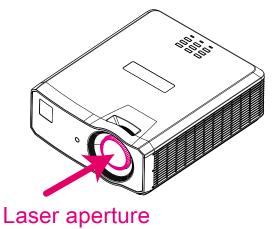


**2.** Explanatory Label

DIGITAL	DLP Projector / Projecteur
PROJECTIC	
Model / Modèle(型號 / 型号): E-Vision	
Part No. / Numéro de pièce(零部件号/图	
AC Input / Entrée CA(输入 / 输入): 100-240\	
Caution: Do not open, No user serviceable parts is 警告:請勿打例外殼, 設備內無服務性維修之元件. 警告:請勿打所外壳, 设备内无服务性維修之组件. Cuidado: no abra la tapa. Niguna parte interna es Avertissement : ne pas ouvri le couvercle. Le pro pièce interne réparable par l'utilisz	reparable por Usuario. duit ne contient aucune
Caution: Do not open, No user serviceable part Laite on liitettävä suojakoskettimilla varustettu Apparatet mä tilkoples jordet stikkontakt Apparaten skall ansilutas till jordat uttag Apparatots stikprop skal tilsluttos en stikkontak som giver forbindelse til stikproppens jord	un pistorasiaan
	LASER RADIATION AND DRECT FYE EXPORTE INC 6485-12807 CLASS R. LASER PRODUCT Encode wavelength + 497.46 inn Mox. There emproy objects / 10.46 mm / 10.47 mm Internet and the control of the control of the control of the control and there is a second of the control
	YEUX APPARELLÀ LASER DE CLASSE 3R Longueur d'anne :449-461nm maximum èxençie de impulsion : 0,699m). durée de impulsion : 1,34 ms 避光辐射 避免機構受到直接限制 3R使激光产品 没能: 449-461 mm - 强大路开能量: 0.064 ml, 器计封闭: 1,34 ms
Delta Electronics (Jiangsu) Ltd. No.1688, Jiangxing East Rd., Wuljang Economic and Technological Development Zone, Suzhou City, Jiangsu Provinco, P.R.C.218200	CONSUMER LASER PRODUCT: EN 5669-2021 - IEC 43471-52015 CLASS 1 LASER PRODUCT 1 元治地、IEC 60025-1:2014 EN 60025-1:2014(A1):2021 PRODUIT LASER DE CLASSE 1 - IEC 60025-1:2014 EN 60025-1:2014(A1):2021
制造商:Digital Projection Limited Greenside Way Middleton Manchester, M24 1XX UK	Made in China/展览地:中國 / 世际地:中国 3264685100 XXXXX XXXXX

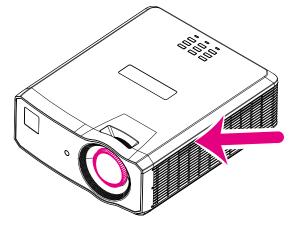
### Location of laser aperture

Below drawing is the laser aperture location. Be careful not to let the eye see the light directly.



#### Interlock switches

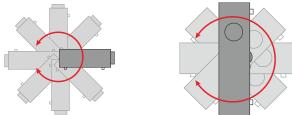
This machine has 1 (Top cover) Interlock switches to protect the laser light Leakage. Will power-off the system individually when the top cover is removed.



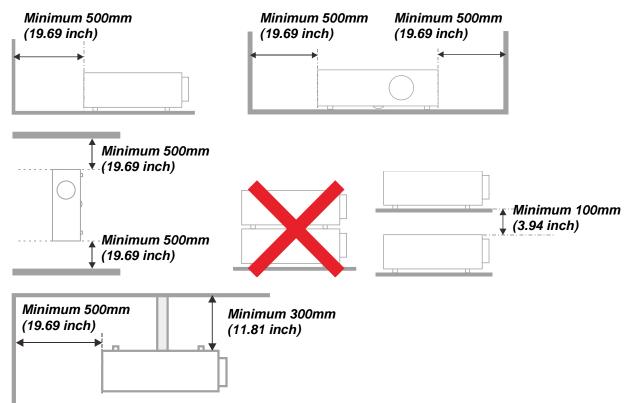
## **DLP Projector—User's Manual**

#### **Projector Installation Notice**

> There is no limitation angle for projector installation.



> Allow at least 50 cm clearance around the exhaust vent.



- > Ensure that the intake vents do not recycle hot air from the exhaust vent.
- When operating the projector in an enclosed space, ensure that the surrounding air temperature within the enclosure does not exceed operation temperature while the projector is running, and the air intake and exhaust vents are unobstructed.
- All enclosures should pass a certified thermal evaluation to ensure that the projector does not recycle exhaust air, as this may cause the device to shutdown even if the enclosure temperature is with the acceptable operation temperature range.

#### Verify Installation Location

- To supply power, the 3-blade (with earthing lead) socket should be used to ensure proper grounding and equalized ground potential for all of the equipment in the Projector System.
- The power code provided with the Projector should be used. In case of any missing item, other qualified 3-blade (with earthing lead) power cord can be used as substitution; however, do not use 2-blade power cord.
- > Verify if the voltage is stable, grounded properly and there is no electricity leakage.
- Measure total power consumption which should not higher the safety capacity and avoid safety issue and short circuit.
- > Turn on Altitude Mode when located in high altitude areas
- > The projector can only be installed upright or inverted.
- > When installation the bracket, make sure the weight limit is not exceed and firmly secured.
- > Avoid installing near air conditioner duct or subwoofer.
- > Avoid installing at high temperature, insufficient cooling and heavy dust locations.
- Keep your product away from fluorescent lamps (>1 Meter) to avoid malfunction caused by IR interference
- The VGA IN connector should be connected to the VGA IN port. Note that it should be inserted tightly, with the screws on both sides securely fastened to ensure proper connection of the signal wire for achieving optimal display effect.
- The AUDIO IN connector should be connected to the AUDIO IN port and CANNOT be connected to AUDIO OUT or other ports like BNC, RCA; otherwise, it will lead to mute output and even DAMAGE the port.
- > Install the projector above 200cm to avoid damage.
- The power cord and signal cable should be connected before power on the projector. During the projector starting and operating process, DO NOT insert or remove the signal cable or the power cord to avoid damaging the projector.

#### **Cooling notes**

#### Air outlet

- > Make sure the air outlet is 50cm clear of any obstruction to ensure proper cooling.
- > Air outlet location should not be in front of the lens of other projector to avoid causing illusions.
- > Keep the outlet at least 100cm away from the inlets of other projectors
- The projector generates a massive amount of heat during use. The internal fan dissipates the heat of the projector when shutting down, and such process may continue for a certain period. After the project enters STANDBY MODE status, press the AC power button to turn off the projector and remove the power cord. DO NOT remove the power cord during the shutdown process, as it may cause damage to the projector. In the meantime, the delayed heat radiating will also affect the service life of the projector. The shutdown process may vary depending on the model used. Whatever the case may be, be sure to disconnect the power cord till after the projector enters the STANDBY status.

#### Air inlet

- > Make sure there is no object blocking air input within 30 cm.
- > Keep the inlet away from other heat sources
- Avoided heavy dust area

#### **Power Safety**

- > Only use the supplied power cord.
- Do not place anything on the power cord. Place the power cord where it will not be in the way of foot traffic.
- > Remove the batteries from the remote control when storing or not in use for a prolonged period.

#### **Cleaning the Projector**

- > Unplug the power cord before cleaning. See *Cleaning the Projector* page 55.
- > Allow the light source to cool for about one hour.

#### **Regulatory Warnings**

Before installing and using the projector, read the regulatory notices in the *Regulatory Compliance* on page 68.

#### Symbol Explanations



DISPOSAL: Do not use household or municipal waste collection services for disposal of electrical and electronic equipment. EU countries require the use of separate recycling collection services.

#### Special Care for Laser Beams!

Special care should be considered when DLP projectors and high power laser equipment are used in the same room as.

Direct or indirect hit of a laser beam on to the projector lens can severely damage the Digital Mirror Devices (DMD<sup>™</sup>).

#### Sun light Warning

Avoid using in direct sun light.

Sun light on the projector lens can severely damage the Digital Mirror Devices (DMD™).

## Main Features

- DLP® DarkChip3™ and BrilliantColor™ technologies for optimal black levels and vibrant colorful images
- Sold state laser phosphor light source for reliable projection and performance
- Environmentally friendly lamp-less design that is mercury-free and energy efficient
- Almost maintenance-free with up to 20,000 hours of operating time
- Manual zoom and focus for easy adjustment and positioning flexibility
- Horizontal and vertical lens shift for greater installation convenience and flexibility
- Distorted and trapezoid image issues are easily corrected with keystone, and 4-corner adjustment
- MHL device compatibility for streaming of video and audio content from a compatible mobile device
- Built-in HDBaseT receiver. HDBaseT<sup>™</sup> interface with support for distribution of HD video, digital audio content, RS232, RJ45 and IR function over standard CAT5e/6 LAN cable
- Full suite of display connectivity inputs and outputs
- 10W of total stereo audio power (5W x 2) with multiple audio-in and audio-out ports
- 3D sync port for compatibility with IR (infrared) 3D passive synchronization protocol
- 360° operation and projection design for set up in all angles
- Portrait mode projection allows the projector to be easily setup and installed in a 90° installation
- Airtight sealed engine and filter-less design for improved performance against fighting dust and fibers
- Network ready for integration and system administration via RJ45
- Crestron® RoomView™ integration for network monitoring and management
- Anti-theft security features include: Kensington® security slot, and security bar

## About this Manual

This manual is intended for end users and describes how to install and operate the DLP projector. Wherever possible, relevant information—such as an illustration and its description—has been kept on one page. This printer-friendly format is both for your convenience and to help save paper, thereby protecting the environment. It is suggested that you only print sections that are relevant to your needs.

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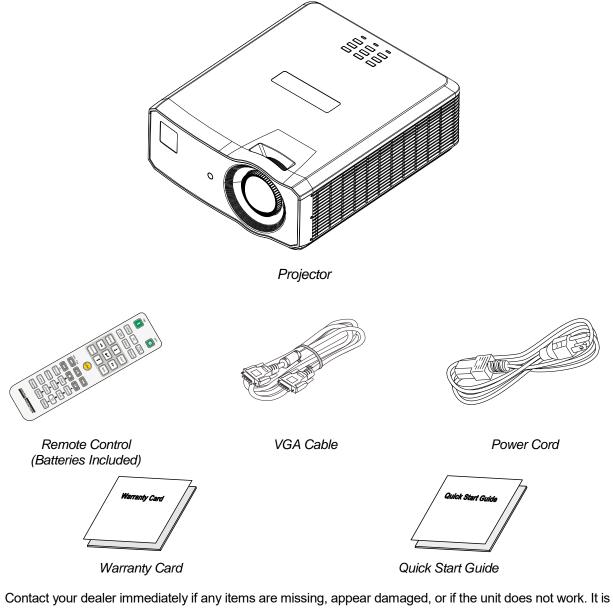
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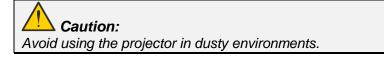
## **GETTING STARTED**

## **Packing Checklist**

Carefully unpack the projector and check that the following items are included:

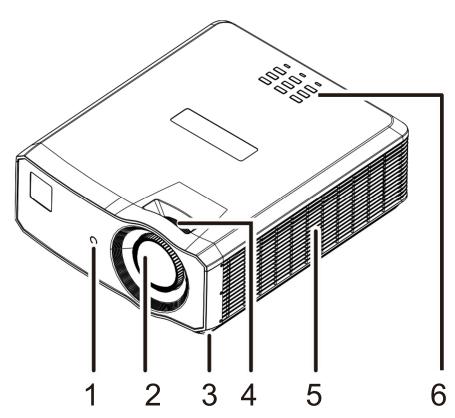


Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work. It is recommend that you keep the original packing material should you ever need to return the equipment for warranty service.



## **Views of Projector Parts**

Front-right View

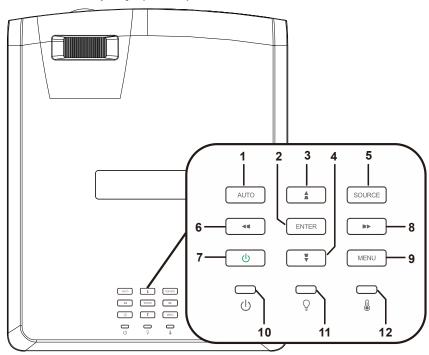


Ітем	LABEL		SEE PAGE
1.	IR Receiver	Receives IR signal from remote control.	8
2.	Lens	Projection Lens.	
3.	Tilt Adjuster	Rotate adjuster lever to adjust angle position.	17
4.	Focus Ring	Focuses the projected image.	18
5.	Vent	Cool air intake.	
6.	Function Keys	On-Screen Display (OSD) buttons.	3

## lmportant:

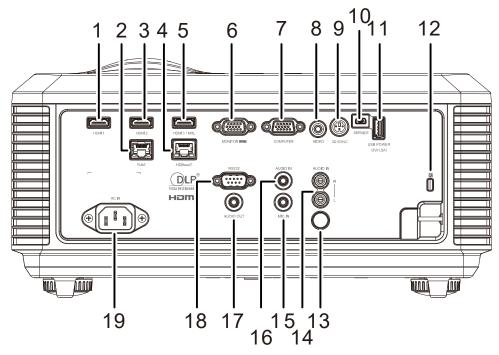
Ventilation openings on the projector allow for good air circulation, which keeps the projector light source cool. Do not obstruct any of the ventilation openings.

Top view—On-screen Display (OSD) buttons and LEDs



Ітем	LABEL	DESCRIPTION	SEE PAGE
1.	AUTO	Optimizes image size, position, and resolution.	
2.	ENTER	Enter or confirm highlighted OSD menu item.	20
3.		Navigates and changes settings in the OSD. Quick Menu – For Vertical Keystone.	20
4.	•	Navigates and changes settings in the OSD. Quick Menu – For Vertical Keystone.	20
5.	SOURCE	Enter the Source menu.	
6.		Navigates and changes settings in the OSD. Quick Menu – For Horizontal Keystone.	20
7.	Power	Turn the projector on or off.	13
8.		Navigates and changes settings in the OSD. Quick Menu – For Horizontal Keystone.	20
9.	MENU	Opens and exits OSD menus.	20
10.	Power LED	Display the power on/off sequence status.	58
11.	Light source LED	Display the light source status.	58
12.	Temp LED	Display the thermal status.	58

## <u>Rear view</u>



Ітем	LABEL	DESCRIPTION	SEE PAGE
1.	HDMI 1	Connect the HDMI cable from an HDMI device.	
2.	RJ45	Connect a LAN cable from Ethernet.	
3.	HDMI 2	Connect the HDMI cable from an HDMI device.	
4.	HDBaseT	Connect Cat5e/Cat6 cable from HDBaseT TX Box (VIDI EXTENDER) for HDBaseT signal received.	EO
5.	HDMI 3 / MHL	Connect the HDMI/MHL cable from an HDMI/MHL device <b>Note:</b> Set the Source to HDMI 3/MHL also can be charg MHL compatible smart device as long as the proj On.	ing connected
6.	MONITOR OUT	Connect an RGB cable to a display.	
7.	COMPUTER	Connect an RGB cable from a computer or a video enal	oled device.
8.	VIDEO	Connect the composite cable from a video device.	
9.	3D-SYNC	Connect 3D-sync in cable from a computer or an enable	ed device.
10.	SERVICE	For service personnel only.	
11.	USB POWER (5V/1.5A)	Connect a USB cable for USB host. <b>Note:</b> Support 5V/1.5A output as long as the projector F	Power On.
12.	Kensington Security Slot	Secures to permanent object with a Kensington Lock system.	56
13.	IR	Receive IR signal from remote control.	
14.	AUDIO IN L/R	Connect the audio cables from an audio device for VIDE	O audio input.
15.	MIC IN	Connect the microphone input device.	

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Ітем	LABEL	DESCRIPTION	SEE PAGE
16.	AUDIO IN	Connect an AUDIO cable from the audio device.	
17.	AUDIO OUT	Connect an AUDIO cable for audio loop through.	
18.	RS-232C	Connects RS-232 serial port cable for remote control.	
19.	AC IN	Connect the POWER cable.	

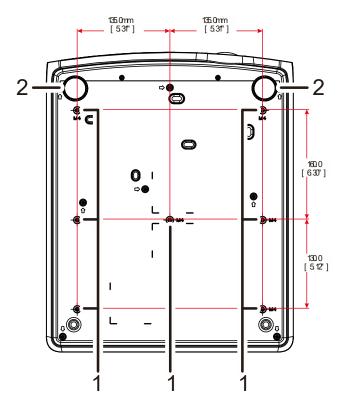
#### Note:

- To use this feature, you must plug in the connector before turn on/off the projector.
- Screen controllers are supplied and supported by screen manufacturers.
- Do not use this jack for anything other than intended use.



As a safety precaution, disconnect all power to the projector and connecting devices before making connections.

## Bottom view



Ітем	LABEL	DESCRIPTION	SEE PAGE
1.	Ceiling Mount Holes	Contact your dealer for information on mounting the proj	ector on a
2.	Tilt Adjustor	Rotate adjuster lever to adjust angle position.	17

#### Note:

When installing, ensure that you use only UL Listed ceiling mounts.

For ceiling installations, use approved mounting hardware and M4 screws with a maximum screw depth of 12mm (0.47 inch).

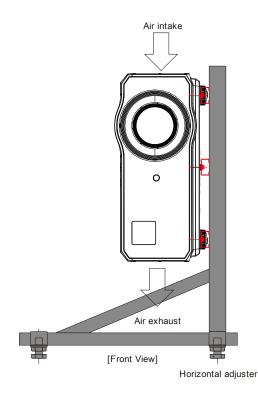
The construction of the ceiling mount must be of a suitable shape and strength. The ceiling mount load capacity must exceed the weight of the installed equipment, and as an additional precaution be capable of withstanding three times the weight of the equipment over a period of 60 seconds.

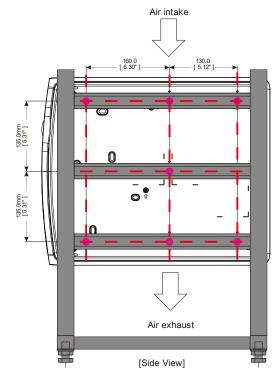
## Reference drawings for stand

Please hire an installation service provider (for a fee) for the design and manufacture of a customized stand to be used for portrait projection. Please ensure that the design complies with the following conditions:

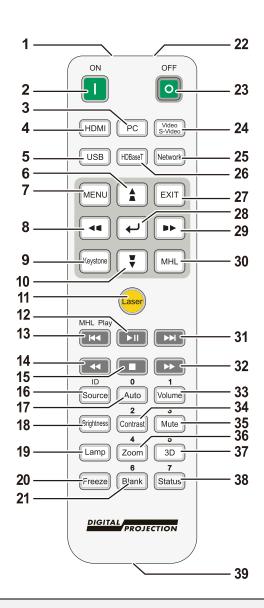
- Use the 7 screw holes at the back of the projector to secure it to the stand.
   Screw hole center dimension: 290 (pitch = 160, 130) × 270 (pitch = 135) mm
   Screw hole dimension on the projector: M4 with the maximum depth 12 mm
- Horizontal adjustment mechanism (for example, bolts and nuts in 4 places)
- Please design the stand so that it does not easily topple over.

The drawing showing the dimensional requirements is not an actual stand design drawing.





## Remote Control Parts



## Important:

**1.** Avoid using the projector with bright fluorescent lighting turned on. Certain high-frequency fluorescent lights can disrupt remote control operation.

**2.** Be sure nothing obstructs the path between the remote control and the projector. If the path between the remote control and the projector is obstructed, you can bounce the signal off certain reflective surfaces such as projector screens.

**3.** The buttons and keys on the projector have the same functions as the corresponding buttons on the remote control. This user's manual describes the functions based on the remote control.

#### Note:

Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007



Caution:

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Ітем	LABEL	DESCRIPTION	SEE PAGE			
1.	IR Transmitter	Transmits signals to projector.				
2.	Power On	Turns the projector on.	13			
3.	PC	Displays the PC source selection.				
4.	HDMI	Displays the HDMI1/HDMI 2/HDMI 3/MHL source selection	n (toggle).			
5.	USB	NA				
6.		Navigates and changes settings in the OSD. Quick Menu – For Vertical Keystone.	20			
7.	MENU	Opens the OSD. 20				
8.	<b>4</b>	Navigates and changes settings in the OSD. Quick Menu – For Horizontal Keystone.	20			
9.	Keystone	Opens the Keystone menu.				
10.	<b>.</b>	Navigates and changes settings in the OSD. Quick Menu – For Vertical Keystone.	20			
11.	Laser	Press to operate the on-screen pointer. DO NOT POINT I	N EYES.			
12.	▶II	Play or pause video/music for MHL.				
13.		Reverse in set increments for MHL.				
14.	◀	Play the previous item on the programming list for MHL.				
15.		Stop video/music playing for MHL.				
16.	Source/ID	Alternate input source. Combo key function for Remote Control customer code settings (Press ID button + Number for 3 seconds).	20			
17.	Auto/0	Auto adjustment for frequency, phase, and position. Number for Remote ID setting used.	20			
18.	Brightness	Displays the brightness setting bar.				
19.	Lamp	Displays the light source selections.				
20.	Freeze	Freezes/unfreezes the on-screen picture.				
21.	Blank/6	Makes the screen blank. Number for Remote ID setting used.				
22.	Laser	Use as on-screen pointer. DO NOT POINT IN EYES.				
23.	Power Off	Turns the projector off.	13			
24.	Video/S-Video	Displays the Video source selection.				
25.	Network	Open the OSD Network menu.				
26.	HDBaseT	Displays the HDBaseT source selection.				
27.	EXIT	Return to last OSD page.				
28.	€-	Enters and confirms settings in the OSD.	20			
29.		Navigates and changes settings in the OSD. Quick Menu – For Horizontal Keystone.	20			
30.	MHL	Enable the Mobile High-Definition Link technology feature devices.	for smart			
31.		Forward in set increments for MHL.				
32.	••	Play the following item on the programming list for MHL.				

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Ітем	LABEL	DESCRIPTION	SEE PAGE
33.	Volume/1	Displays the Volume setting bar. Number for Remote ID setting used.	
34.	Contrast/2	Displays the Contrast settings bar. Number for Remote ID setting used.	
35.	Mute/3	Mutes the built-in speaker. Number for Remote ID setting used.	
36.	Zoom/4	Displays the digital zoom settings bar. Number for Remote ID setting used.	18
37.	3D/5	Open the OSD 3D Setting menu. Number for Remote ID setting used.	
38.	Status/7	Opens the OSD Status menu (the menu only opens when device is detected). Number for Remote ID setting used.	ı an input
39.	Wired Jack	Connect wire remote to the projector.	

#### Note:

Remote Combo Key Settings:

ID+0: Reset Remote Control customer code to default settings.

ID+1: Set Remote Control customer code to "1".

ID+7: Set Remote Control customer code to "7".

Projector also need setting ID for unique control. Projector ID settings see page 39.

#### Note:

When the projector is under **MHL** mode, The keypad on projector should be with the same definition of the key on remote control.

When MHL function: MENU for App settings, ▲ Up, ▼ Down, ◄ Left and ► Right are used as directional arrows, also included ENTER and EXIT.

#### Controlling your smart device with the remote control:

When the projector projects the contents from your **MHL** compatible smart device, you can use the remote control to control your smart device.

To enter the **MHL** mode, the following buttons are available for controlling your smart device, Arrow keys (▲ Up, ▼ Down, ◄ Left, ▶ Right), MENU, EXIT, MHL control buttons.

## **Remote Control Operating Range**

The remote control uses infrared transmission to control the projector. It is not necessary to point the remote directly at the projector. Provided you are not holding the remote perpendicular to the sides or the rear of the projector, the remote will function well within a radius of about 7 meters (23 feet) and 15 degrees above or below the projector level. If the projector does not respond to the remote control, move a little closer.

## **Projector and Remote Control Buttons**

The projector can be operated using the remote control or the buttons on the top of the projector. All operations can be carried out with the remote control; however, the buttons on the projector are limited in use.

### **DLP** Projector—User's Manual

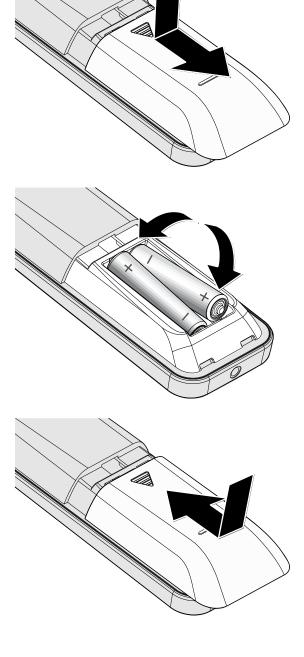
**SETUP AND OPERATION** 

## **Inserting the Remote Control Batteries**

**1**. Remove the battery compartment cover by sliding the cover in the direction of the arrow.

**2.** Insert the battery with the positive side facing up.

**3.** Replace the cover.

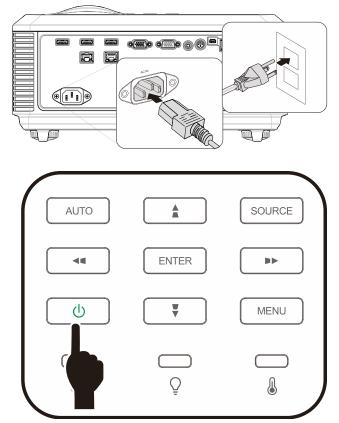


## Caution:

- 1. Only use AAA batteries (Alkaline batteries are recommended).
- 2. Dispose of used batteries according to local ordinance regulations.
- 3. Remove the batteries when not using the projector for prolonged periods.
- 4. RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
- 5. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

## Starting and Shutting down the Projector

**1** Securely connect the power cord and signal cable. When connected, the power led will flash green to solid green.



**2.** Turn on the light source by pressing  $_{\circ \circ}$ 

" **b** witton on the projector or " **b** " on the remote control. The PWR LED will now flash green. The startup screen will display in approximately 30 seconds. The first time you use the projector, you can select your preferred language from quick menu after the startup screen display. (See *Setting the OSD Language* on page 21)

See Setting an Access Password (Security Lock) on page 15 if security lock is enabled. 3.

- If more than one input device is Source connected, press the SOURCE button and use  $\blacktriangle \nabla$  to scroll among devices. HDMI1 HDMI 2 (Component is supported through the HDMI37MHL RGB to Component adapter.) VGA  $\overline{}$  $\odot$ Composite Video **HDBaseT** — Item Adjust 4// Scroll AV Menu = Exit HDMI 1: High-Definition Multimedia Interface compatible
  - HDMI 2: High-Definition Multimedia Interface compatible
  - HDMI 3 / MHL: High-Definition Multimedia Interface
     and Mobile High-Definition Link compatible
    - VGA: Analog RGB DVD input YCbCr/ YPbPr, or HDTV input YPbPr via D-sub connector
  - Composite Video: Traditional composite video
  - HDBaseT: Support for distribution of HD video, digital audio content, RS232, RJ45 and IR function over standard CAT5e/6 LAN cable.

#### Note:

It is recommended to use a certified TX box (VIDEO EXTENDER) – Rextron (EVBMN-110L38) for the HDBaseT function and there is no guarantee of full response when other brands of TX box are used. Using a single HDBaseT CAT5e cable, the projector supports an HDBaseT connection distances to 100m/328ft.

**4** When the "Power Off? /Press **Power** again" message appears, press the **POWER** button. The projector turns off.



## Caution:

Do not unplug the power cord until the POWER LED stops flashing – indicating the projector has cooled down.

## Setting an Access Password (Security Lock)

You can use the four (arrow) buttons to set a password and prevent unauthorized use of the projector. When enabled, the password must be entered after you power on the projector. (See *Navigating the OSD* on page 20 and *Setting the OSD Language* on page 21 for help on using OSD menus.)

### Important:

Keep the password in a safe place. Without the password, you will not be able to use the projector. If you lose the password, contact your reseller for information on clearing the password.

1. Press the **MENU** button to open the OSD menu.

Press the cursor < ► button to move to the Settings 1 menu, press the cursor</li>
 ▲ ▼ button to select Advanced 1.





- Press ← (Enter) / ► to enter the Advanced 1 sub menu. Press the cursor ▲ ▼ button to select Security Lock.
- **4.** Press the cursor **◄** button to enter and enable or disable security lock function.

A password dialog box automatically appears.



# 5. You can use the cursor buttons ▲▼◀►

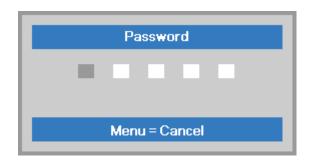
either on keypad or IR remote control for password entry. You can use any combination including the same arrow five times, but not less than five.

Press the cursor buttons in any order to set the password. Push the **MENU** button to exit the dialog box.

Deces					
Passv	fora				
Register Password	100				
-	-				
Confirm Password					
Menu =	= Evit				
Menu -					_
					_
Passv	vord				
		*	*	*	*
Register Password		*	*	*	*
Register Password	*	*			* *
Register Password Confirm Password	* *				
Register Password Confirm Password Of	* *				
Register Password Confirm Password	* *				

6. The password confirm menu appears when user presses the power-on key in case the **Security Lock** is enabled. Enter the password in the order you set it at step 5. In case you forget the password, please contact the service center.

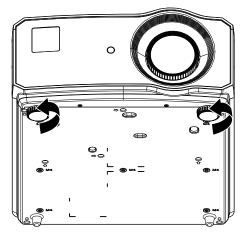
The service center will validate the owner and help reset the password.



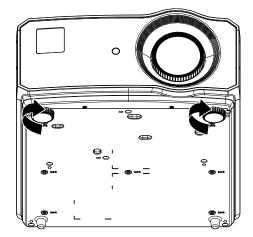
## **Adjusting the Projector Level**

Take note of the following when setting up the projector:

- The projector table or stand should be level and sturdy.
- Position the projector so that it is perpendicular to the screen.
- Ensure the cables are in a safe location. You could trip over them.
- **1**. To raise the level of the projector, twist the adjusters counter clockwise.

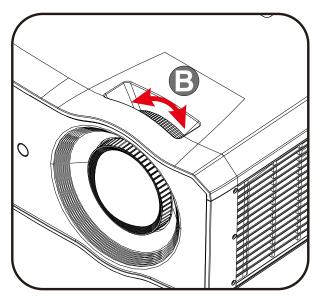


**2.** To lower the level of the projector, lift the projector and twist the adjusters clockwise.

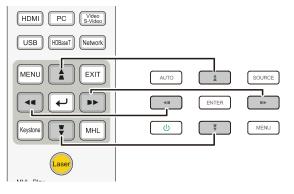


## Adjusting the Zoom, Focus and Keystone

**1** Use the Image-focus control (on the projector only) to sharpen the projected image.



2. Press the ▲ / ▼ / ■ / ■ buttons (on the projector or the remote control) to correct vertical or horizontal image-trapezoid or press the Keystone button (on the remote) to selected V (Vertical) or H (Horizontal) keystone.

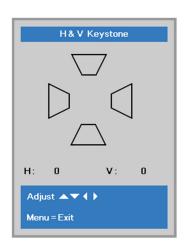


Remote control and OSD panel

**3.** The keystone control appears on the display.

Press A / V for V Keystone correcting image.

Press I / For H Keystone correcting image.

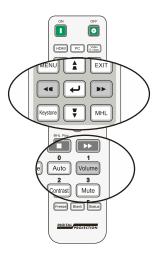


5

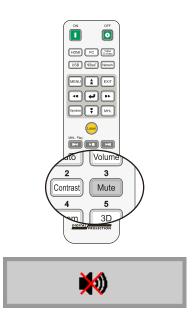
## Adjusting the Volume

**1.** Press the **Volume** buttons on the remote control.

The volume control appears on the display.



- 2. Press the ◀ / ► buttons on the keypad to adjust Volume +/-.
- **3.** Press the **MUTE** button to turn off the volume (This feature is available only on the remote).



Volume

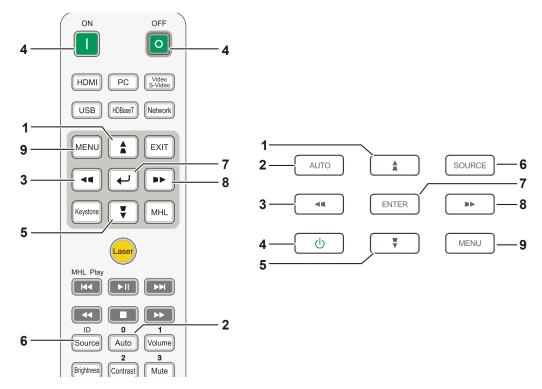
## **ON-SCREEN DISPLAY (OSD) MENU SETTINGS**

## OSD Menu Controls

The projector has an OSD that lets you make image adjustments and change various settings.

## Navigating the OSD

You can use the remote control cursor buttons or the buttons on the projector to navigate and make changes to the OSD. The following illustration shows the corresponding buttons on the projector.



- 1. To enter the OSD, press the **MENU** button.
- 2. There are three menus. Press the cursor ◀ /
  ▶ buttons to move through the menus.
- 3. Press the cursor ▲ / ▼ buttons to move up and down in a menu.
- Press the cursor < / ► buttons to change values for settings.</li>
- Press the MENU button to close the OSD or leave a submenu. Press the EXIT button to return to the previous menu.

image	Settings 1	Settings 2
Display Mode		Presentation
Brightness		50
Contrast		50
Computer		<b>↓</b> /}
Auto Image		<b>↓</b> /}
Advanced		4/) 4/) 4/)
Color Manager		4/)
Menu = Exit	Menu Select 🌗	Scroll 🔺 🔻

#### Note:

Depending on the video source, not all items in the OSD are available. For example, the **Horizontal/Vertical Position** items in the **Computer** menu can only be modified when connected to a PC. Items that are not available cannot be accessed and are grayed out.

## Setting the OSD Language

Set the OSD language to your preference before continuing.

1. Press the **MENU** button. Press the cursor **◄** button to navigate to **Settings 1**. Press the cursor **▲ ▼** button to move to the **Advanced 1** menu.

image	Settings 1	Settings 2
Source Projection Audio Alignment IR Setting Advanced 1	- ·	+// P +// +// All +//
Advanced 2 Menu = Exit	Menu Select 🜗	+/∕> Scroll ▲▼

\\ Image	Settings 1	Settings 2
	Settings 1 Advanced 1	
Language		English
Security Lock		Off
Blank Screen		
Splash Logo		Std.
Closed Captioning		Off
Keypad Lock		Off
3D Setting		41/>
Menu = Return		Scroll 🔺 🔽

- 3. Press the cursor button until the language you want is highlighted.
- 4. Press the MENU button four times to close the OSD.

## **OSD Menu Overview**

Use the following illustration to quickly find a setting or determine the range for a setting.

			Sattinga
Sub Menu Display Mode			Settings Presentation, Bright, Game, Movie, Vivid, TV, sRGB,
Brightness	<u> </u>		DICOM SIM, User, User2 0~100
Contrast			0~100
Computer	└ Horizontal Position		-5~5 (depend on Auto Sync)
Computer	Vertical Position		-5~5 (depend on Auto Sync)
	Frequency		0~31
	Tracking		-5~5
	Auto Sync		On, Off
Auto Image			
Advanced	 F Brilliant Color		0~10
, lavanoou	Sharpness		0~31
	Gamma		1.8, 2.0, 2.2, 2.4, B&W, Line
	Color Temperatur	e	Warm, Normal, Cold
	Video AGC	-	Off, On
	Video Saturation		0~100
	Video Tint		0~100
	White Balance	r R Gain	0~200
		G Gain	0~200
		B Gain	0~200
		R Offset	-100~100
		G Offset	-100~100
		B Offset	-100~100
Color Manager	Red	Hue, Saturation, Gain	0~100
	Green Hue, Saturation, Gain		0~100
	Blue Hue, Saturation, Gain		0~100
	Cyan Hue, Saturation, Gain		0~100
	Magenta Hue, Saturation, Gain		0~100
	Yellow	Hue, Saturation, Gain	0~100
	<sup>L</sup> White	Red, Green, Blue	0~100

Main Menu	Sub Menu			Settings
Settings 1	Source	Source		reference Input Source Select (IR/Keypad)
	Projection			Normal, Real, Ceiling, Real+Ceiling
	Audio	Volume		0~10
		Mute		Off, On
		MIC		Off, On
		MIC Volume		0~10
	Alignment	Aspect Ratio		Fill, 4:3, 16:9, Letter Box, Native, 2.35:1
		Digital Zoom		-10~10
		Keystone		H: -15 ~ +15 V: -15 ~ +15
		4 Corner		Top Left, Top Right, Bottom Right, Bottom Left
	IR Setting			All, Front IR, Rear IR
	Advanced 1	- Language		English, Français, Deutsch, Español, Português, 簡体中文, 繁體中文, Italiano, Norsk, Svenska, Nederlands, Русский,
				Polski, Suomi, Еλληνικά, 한국어, Magyar,
				Čeština, العربية Türkçe, Việt, 日本語, ไทย ,
				עבריתוּ-ָלַש <i>ָ</i> ט, Dansk, Fran. Can.
		Security Lock		Off, On
		Blank Screen		Blank, Red, Green, Blue, White
		Splash Logo		Std., Black, Blue
		Closed Captioning	1	Off, On
		Keypad Lock		Off, On
		3D Setting	3D	Off, DLP-Link, IR
			3D Sync Invert	Off, On
			3D Format	Frame Sequential, Top/Bottom, Side-By-Side, Frame Packing (3D Frame Packing HDMI source only)
Advanced 2		r Test Pattern		None, RGB Ramps, Color Bars, Step Bars CheckBoard, Grid, Horizontal Lines, Vertical Lines, Diagonal Lines, Horizontal Ramp, Vertical Ramp, White, Red, Green Blue, Black
		H Image Shift		-50~50
		V Image Shift		-50~50

# **DLP** Projector—User's Manual

Main				
Menu	Sub Menu			Settings
Settings 2	- Auto Source			Off, On
	No Signal Power Off (min)			0~180
	Auto Power On			Off, On
	Light Mode			Normal, Eco, Dimming, Extreme Dimming, Custom Light, Constant Brightness
	Reset All			
	Status	Active Source		
		Video Information		
		Light Hours		
		Software Version		
		Remote ID		
		Serial Number		
	Advanced 1	Menu Position		Left, Right, Center, Bottom, Top
		Translucent Menu		0%, 25%, 50%, 75%, 100%
		Low Power Mode		On, On By Lan, On By HDBaseT
		Fan Speed		Normal, High
		Light Info		Normal, Eco, Dimming, Extreme Dimming, Custom Light, Constant Brightness
		Projector ID		0~98
		Remote ID		Default, 1, 2, 3, 4, 5, 6, 7
		Network	Network State	Connect, Disconnect
			DHCP	On, Off
			IP Address	0~255, 0~255, 0~255. 0~255
			Subnet Mask	0~255, 0~255, 0~255. 0~255
			Gateway	0~255, 0~255, 0~255. 0~255
			DNS	0~255, 0~255, 0~255. 0~255
			Apply	Ok / Cancel
		HDBaseT Setting		Off, On
	Advanced 2	Sleep Timer(min)		0~600
		Source Filter	<mark>_ HDMI1</mark>	Disable, Enable
			HDMI2	Disable, Enable
			HDMI3/MHL	Disable, Enable
			VGA	Disable, Enable
			Composite Video	Disable, Enable
			HDBaseT	Disable, Enable
		Air Filter Settings	Air Filter Hours	
			Time Reminder	Off, 300hrs, 500hrs, 1000hrs, 1500hrs, 2000hrs
			Reset Timer	
	- Custom Light			25~100

# Image Menu



All of display mode parameters when changed will be saved to user mode.

Press the **MENU** button to open the **OSD** menu. Press the cursor  $\blacktriangleleft \triangleright$  button to move to the **Image Menu**. Press the cursor  $\blacktriangle \checkmark$  button to move up and down in the **Image** menu. Press  $\blacktriangleleft \triangleright$  to enter and change values for settings.

image	Settings 1	Settings 2
Display Mode Brightness Contrast Computer Auto Image Advanced Color Manager		Presentation 50 50 4// 4// 4//
Menu = Exit	Menu Select	Scroll 🔺 🔻

Ітем	DESCRIPTION
Display Mode	Press the cursor $\blacktriangleleft \triangleright$ button to enter and set the Display Mode.
Brightness	Press the cursor ◀▶ button to enter and adjust the display brightness.
Contrast	Press the cursor ◀▶ button to enter and adjust the display contrast.
Computer	Press
Auto Image	Press ◀┛ (Enter) / ► to automatically adjustment for phase, tracking, size and position.
Advanced	Press
Color Manager	Press

# Computer Menu

Press the **MENU** button to open the **OSD** menu. Press  $\blacktriangleleft \triangleright$  to move to the **Image** menu. Press  $\blacktriangle \lor$  to move to the **Computer** menu and then press **Enter** or  $\triangleright$ . Press  $\blacktriangle \lor$  to move up and down in the **Computer** menu.

image	Settings 1	Settings 2
	Image 🕨 Computer	
Horizontal Position		0
Vertical Position		0
Frequency		0
Tracking		0
Auto Sync		On
Menu = Return		Scroll 🔺 🔻

Ітем	DESCRIPTION	
Horizontal Position	Press the cursor ◀▶ button to enter and adjust the display position to left or right.	
Vertical Position	Press the cursor ◀▶ button to enter and adjust the display position to up or down.	
Frequency	Press the cursor $\blacktriangleleft \triangleright$ button to enter and adjust the A/D sampling clock.	
Tracking	Press the cursor ◀▶ button to enter and adjust the A/D sampling dot.	
Auto Sync	Press the cursor ◀▶ button to enter and adjust the Auto Sync Position to On or Off.	

# Advanced Feature

Press the **Menu** button to open the **OSD** menu. Press  $\blacktriangleleft \triangleright$  to move to the **Image** menu. Press  $\lor \blacktriangle$  to move to the **Advanced** menu and then press **Enter** or  $\triangleright$ . Press  $\lor \blacktriangle$  to move up and down in the **Advanced** menu.

image	Settings 1	Settings 2
	Image 🕨 Advanced	
Brilliant Color		5
Sharpness		16
Gamma		1.8
Color Temperature		Normal
Video AGC		Off
Video Saturation		50
Video Tint		50
White Balance		<b>↓/</b> )
Menu = Return		Scroll 🔺 🔻

Ітем	DESCRIPTION	
Brilliant Color	Press the cursor $\blacktriangleleft$ button to enter and adjust the Brilliant Color value.	
Sharpness	Press the cursor ◀▶ button to enter and adjust the display sharpness.	
Gamma	Press the cursor ◀▶ button to enter and adjust the gamma correction of the display.	
Color Temperature	Press the cursor ◀▶ button to enter and adjust the color temperature.	
Video AGC	Press the cursor <b>◄</b> button to enter and enable or disable the Automatic Gain Contra for video source.	
Video Saturation	Press the cursor $\blacktriangleleft \triangleright$ button to enter and adjust the video saturation.	
Video Tint	Press the cursor $\blacktriangleleft \triangleright$ button to enter and adjust the video tint/hue.	
White Balance	Press the	

# White Balance

Press the ENTER button to enter the White Balance sub menu.



Ітем	DESCRIPTION
R Gain	Press the ◀▶ buttons to adjust the Red Gain.
G Gain	Press the ◀▶ buttons to adjust the Green Gain.
B Gain	Press the ◀▶ buttons to adjust the Blue Gain.
R Offset	Press the ◀▶ buttons to adjust the Red Offset.
G Offset	Press the ◀▶ buttons to adjust the Green Offset.
B Offset	Press the ◀▶ buttons to adjust the Blue Offset.

# Color Manager

Press the **Menu** button to open the **OSD** menu. Press  $\blacktriangleleft \triangleright$  to move to the **Image** menu. Press  $\forall \blacktriangle$  to move to the **Color Manager** menu and then press **Enter** or  $\triangleright$ . Press  $\forall \blacktriangle$  to move up and down in the **Color Manager** menu.

Image	Settings 1	Settings 2
	Image 🕨 Color Manager	
Red		41∕≯
Green		<b>↓/</b> ▶
Blue		<b>↓</b> /)
Cyan		<b>↓</b> /)
Magenta		4/) 4//) 4//)
Yellow		<b>↓/</b> ▶
White		<b>↓/</b> ▶
Menu = Return		Scroll 🔺 🔻

Ітем	DESCRIPTION
Red	Select to enter the Red Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
Green	Select to enter the Green Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
Blue	Select to enter the Blue Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
Cyan	Select to enter the Cyan Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
Magenta	Select to enter the Magenta Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
Yellow	Select to enter the Yellow Color Manager. Press the ◀▶ buttons to adjust the Hue, Saturation, and Gain.
White	Select to enter the White Color Manager. Press the ◀▶ buttons to adjust the Red, Green, and Blue.

# Settings 1 Menu

Press the **MENU** button to open the **OSD** menu. Press the cursor  $\triangleleft \triangleright$  button to move to the **Settings 1** menu. Press the cursor  $\triangleleft \checkmark$  button to move up and down in the **Settings 1** menu. Press  $\triangleleft \triangleright$  to enter and change values for settings.

image	Settings 1	Settings 2
Source Projection Audio Alignment IR Setting Advanced 1 Advanced 2		<b>↓</b> / P ↓/ ↓/ ↓/ All ↓/ ↓/
Menu = Exit	Menu Select 🌗	Scroll 🔺 🔻

Ітем	DESCRIPTION	
Source	Press the cursor ◀► button to enter the Source menu. Reference input Source select (IR / Keypad).	
Projection	Press the cursor $\blacktriangleleft$ button to enter and choose from four projection methods.	
Audio	Press	
Alignment	Press	
IR Setting	Press the cursor ◀► button to enter and select a different IR Setting.	
Advanced 1	Press	
Advanced 2	Press	

# <u>Audio</u>

Press the **Menu** button to open the **OSD** menu. Press ◀► to move to the **Settings 1** menu. Press ▼▲ to move to the **Audio** menu and then press **Enter** or ►. Press ▼▲ to move up and down in the **Audio** menu.

😻 Image	Settings 1	Settings 2
	Settings 1 Audio	
Volume		5
Mute		Off
MIC		Off
MIC Volume		5
Menu = Return		Scroll 🔺 🔻

Ітем	DESCRIPTION
Volume	Press the cursor $\blacktriangleleft \blacktriangleright$ button to enter and adjust the audio volume.
Mute	Press the cursor ◀▶ button to enter and turn on or off the speaker.
MIC	Press the cursor $\blacktriangleleft \triangleright$ button to enter and turn on or off the MIC.
MIC Volume	Press the cursor ◀▶ button to enter and adjust the MIC volume.

### <u>Alignment</u>

Press the **Menu** button to open the **OSD** menu. Press  $\blacktriangleleft \triangleright$  to move to the **Settings 1** menu. Press  $\blacktriangledown \blacktriangle$  to move to the **Alignment** menu and then press **Enter** or  $\triangleright$ . Press  $\blacktriangledown \blacktriangle$  to move up and down in the **Alignment** menu.

image	Settings 1	Settings 2
	Settings 1 Alignment	
Aspect Ratio		Fill
Digital Zoom		0
Keystone		4/) 4/)
4 Corner		<b>↓/</b> }
Menu = Return		Scroll 🔺 🔻

Ітем	DESCRIPTION
Aspect Ratio	Press the cursor $\blacktriangleleft \triangleright$ button to enter and adjust the video aspect ratio.
Digital Zoom	Press the cursor ◀▶ button to enter and adjust the Digital Zoom menu.
Keystone	Press
4 Corner	Press ← (Enter) / ► to enter the 4 Corner sub menu. See 4 Corner on page 33. Note: Without support when 3D mode activated.

### Keystone

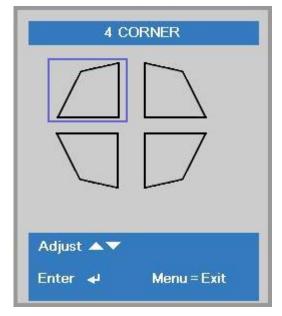
Press the **Menu** button to open the **OSD** menu. Press  $\blacktriangleleft \triangleright$  to move to the **Settings 1** menu. Press  $\forall \blacktriangle$  to move to the **Alignment** menu and then press **Enter** or  $\triangleright$ . Press  $\forall \blacktriangle$  to move to the **Keystone** menu and then press **Enter** or  $\triangleright$ . Press  $\forall \blacktriangle$  to adjust vertical values from -15 to 15. Press  $\blacktriangleleft \triangleright$  to adjust horizontal values from -15 to 15.

H&V Keystone
$\Box$
$\square$
$\square$
H: 0 V: 0
Adjust 🔺 🕶 🌗
Menu = Exit

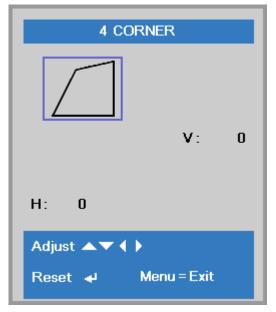
### 4 Corner

Press the **Menu** button to open the **OSD** menu. Press  $\blacktriangleleft \triangleright$  to move to the **Settings 1** menu. Press  $\forall \blacktriangle$  to move to the **Alignment** menu and then press **Enter** or  $\triangleright$ . Press  $\forall \blacktriangle$  to move to the **4 Corner** menu and then press **Enter** or  $\triangleright$ .

1. Press the cursor  $\blacktriangle$  /  $\blacktriangledown$  buttons to select a corner and press **ENTER**.



- 2. Press the cursor ▲ / ▼ buttons to adjust vertical and press the cursor ◀ / ► buttons to adjust horizontal.
- 3. Press **MENU** to save and Exit the settings.



### Advanced 1 Feature

Press the **Menu** button to open the **OSD** menu. Press  $\triangleleft \triangleright$  to move to the **Settings 1** menu. Press  $\blacktriangle \lor$  to move to the **Advanced 1** menu and then press **Enter** or  $\triangleright$ . Press  $\blacktriangle \lor$  to move up and down in the **Advanced 1** menu. Press  $\triangleleft \triangleright$  to enter and change values for setting.

image	Settings 1	Settings 2
	Settings 1 Advanced 1	
Language		English
Security Lock		Off
Blank Screen		
Splash Logo		Std.
Closed Captioning		Off
Keypad Lock		Off
3D Setting		<b>↓/</b> }
Menu = Return		Scroll 🔺 🔻

Ітем	DESCRIPTION
Language	Press the cursor ◀▶ button to enter and select a different localization Menu.
Security Lock	Press the cursor ◀▶ button to enter and enable or disable security lock function.
Blank Screen	Press the cursor ◀▶ button to enter and select different color to blank the screen.
Splash Logo	Press the cursor ◀▶ button to enter and enable or disable Splash Logo.
Closed Captioning	Press the cursor ◀▶ button to enter and enable or disable Closed Captioning
Keypad Lock	Press the cursor ◀▶ button to enter and enable or disable keys can be work on keypad. Note : Hold the cursor ▼ button on keypad for 5 seconds to unlock keypad
3D Setting	Press ← (Enter) / ► to enter the 3D menu. See page 35 for more information on 3D Setting.

### Note:

To enjoy the 3D function, first enable the Play Movie in 3D setting found in your DVD device under the 3D Disc Menu.

# 3D Setting



Ітем	DESCRIPTION
3D	Press the cursor ◀▶ button to enter and select different 3D mode.
3D Sync Invert	Press the cursor ◀▶ button to enter and enable or disable 3D Sync Invert.
3D Format	Press the cursor ◀▶ button to enter and select different 3D Format.

#### Note:

- 1. The 3D OSD menu item is gray if there is no appropriate 3D source. This is the default setting.
- 2. When the projector is connected to an appropriate 3D source, the 3D OSD menu item is enabled for selection.
- 3. Use 3D glasses to view a 3D image.
- 4. You need 3D content from a 3D DVD or 3D media file.
- 5. You need to enable the 3D source (some 3D DVD content may have a 3D on-off selection feature).
- 6. You need DLP link 3D or IR 3D shutter glasses. With IR 3D shutter glasses, you need to install a driver on your PC and connect a USB emitter.
- 7. The 3D mode of the OSD needs to match the type of glasses (DLP link or IR 3D).
- 8. Power on the glasses. Glasses normally have a power on -off switch. Each type of glasses has their own configuration instructions. Please follow the configuration instructions that come with your glasses to finish the setup process.
- 9. Passive 3D is not going to support thru 3D Sync In/Out.

#### Note:

Since different types of glass (DLP link or IR shutter glass) have their own setting instructions, Please follow the guide to finish the setup process.

### Advanced 2 Feature

Press the **Menu** button to open the **OSD** menu. Press  $\triangleleft \triangleright$  to move to the **Settings 1** menu. Press  $\triangleleft \lor$  to move to the **Advanced 2** menu and then press **Enter** or  $\triangleright$ . Press  $\triangleleft \lor$  to move up and down in the **Advanced 2** menu. Press  $\triangleleft \triangleright$  to enter and change values for setting.



Ітем	DESCRIPTION
Test Pattern	Press the cursor ◀► button to enter and select internal test pattern.
H Image Shift	Press the cursor ◀► button to enter and set H Image Shift.
V Image Shift	Press the cursor ◀▶ button to enter and set V Image Shift.

### Settings 2 Menu

Press the **MENU** button to open the **OSD** menu. Press the cursor  $\triangleleft \triangleright$  button to move to the **Settings 2** menu. Press the cursor  $\triangleleft \checkmark$  button to move up and down in the **Settings 2** menu.

💐 Image	Settings 1	X	Settings 2
		·	
Auto Source			Off
No Signal Power Off (r	min)		0
Auto Power On Off		Off	
Light Mode Norm		Normal	
Reset All			<b>↓</b> /▶
Status			<b>↓</b> /▶
Advanced 1 4/>		<b>↓</b> /▶	
Advanced 2 4/1		<b>↓</b> /▶	
Custom Light			50
Menu = Exit	Menu Select 🌗	Scro	∥▲▼

Ітем	DESCRIPTION
Auto Source	Press the cursor ◀▶ button to enter and enable or disable automatic source detection.
No Signal Power Off (min.)	Press the cursor ◀▶ button to enter and set automatic shutdown of Light source when no signal.
Auto Power On	Press the cursor ◀▶ button to enter and enable or disable automatic power On when AC power is supplied.
Light Mode	Press the cursor ◀▶ button to enter and select the Light mode for higher brightness or lower brightness to save light source life.
Reset All	Press ← (Enter) / ► to reset all settings to default values.
Status	Press
Advanced 1	Press
Advanced 2	Press
Custom Light	In Custom Light mode press the cursor ◀► button to enter and adjust the brightness of the projectors to similarity. Note: When Light Mode set to Custom Light, Custom Light function Enable.

Note :

Extreme Dimming: Saving 50% light source power consumption by blank screen (press BLANK button)

# <u>Status</u>

Press the cursor  $\blacktriangle \lor$  button to move up and down in the **Settings 2** menu. Select the **Status** menu and press **Enter** or  $\triangleright$  to enter.



Ітем	DESCRIPTION
Active Source	Display the activated source.
Video Information	Displays resolution/video information for RGB source and color standard for Video source.
Light Hour	Light hour used information is displayed.
Software Version	Showing system software version.
Remote ID	Showing Remote Controller ID
Serial Number	Showing serial number of product.

### Advanced 1 Feature

Press the **Menu** button to open the **OSD** menu. Press  $\blacktriangleleft \triangleright$  to move to the **Settings 2** menu. Press  $\blacktriangle \lor$  to move to the **Advanced 1** menu and then press **Enter** or  $\triangleright$ . Press  $\blacktriangle \lor$  to move up and down in the **Advanced 1** menu. Press  $\blacktriangleleft \triangleright$  to enter and change values for setting.

image	Settings 1	Settings 2
	Settings 2 Advanced 1	
Menu Position		D
Translucent Menu		0%
Low Power Mode		On
Fan Speed		Normal
Light Info		<b>↓</b> /▶
Projector ID		00
Remote ID		Default
Network		<b>↓</b> /}
HDBaseT Setting		On
Menu = Return		Scroll 🔺 🔻

Ітем	DESCRIPTION	
Menu Position	Press the cursor ◀► button to enter and select different OSD location.	
Translucent Menu	Press the cursor ◀► button to enter and select OSD background translucent level.	
Low Power Mode	Press the cursor ◀▶ button to enter and turn Low Power Mode On or On By Lan.	
Fan Speed	Press the cursor ◀▶ button to enter and toggle between Normal and High fan speeds. Note: We recommend selecting high speed in high temperatures, high humidity, or high altitude (higher than 1500m/4921ft) areas.	
Light Info	Press	
Projector ID	Press the cursor ◀▶ button to enter and adjust a two digit projector ID from 00 through 98.	
Remote ID	Press the cursor ◀► buttons to select remote ID to fit the current remote ID settings.	
Network	Press	
HDBaseT Setting	Press the cursor ◀▶ button to enter and enable or disable the HDBaseT Setting.	

#### Note:

About "On By Lan", RJ45 will support to be waked up in this mode but scalar won't.

#### Note:

- 1. Remoter with Default customer code will be available for any Remote ID setting on the OSD.
- 2. Status key will be available for any Remote ID setting on the OSD
- 3. IF users forget the current Remote ID setting, please press the Status key to call out the INFORMATION OSD to check the current Remote ID setting and then adjust the ID on the remoter to meet the OSD setting.
- 4. After adjusting Remote ID from OSD, only if the OSD Menu has been closed then the new ID value can be taken effected and memorized.
- 5. The setting value "Default" means ID 0 on the remoter.

Note:

- 1. Enable **HDBaseT control** function when you desire to use HDBaseT TX box. (Remove RS232 and RJ45/LAN control function from Projector to HDBaseT TX box.) See HDBaseT control function table.
- 2. When HDBaseT enable, Low Power Mode will auto set to On by HDBaseT.
- 3. HDBaseT control is disabled when the HDBaseT TX box signal is cutoff.

		Projector Mode			
Control Side	Function	Low Power Mode On(<0.5W)	Low Power Mode On by lan(<3W)	HDBaseT control Enable Low Power Mode On by HDBaseT(<6W)	Remark
	Front-IR(wireless)	0	0	O(Can disable by OSD)	
tor	Rear-IR(wireless)	0	0	O(Can disable by OSD)	
Projector	RS-232	0	0	Х	
Pro	RJ45/LAN	Х	0	Х	
	Wired remote	0	0	0	
	HDBT-IR(wireless)	Х	Х	0	
ŏ	RS-232	Х	Х	0	
B X	RJ45/LAN	Х	Х	0	
HDBaseT TX Box	Wired remote	Х	x	0	User can con- nect wired remote at HDBaseT TX side to get the wired function.

### HDBaseT control function table

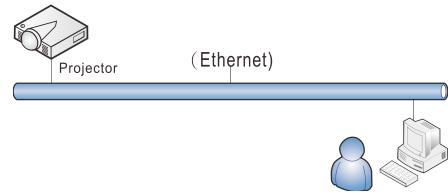
O : Enable X : Disable

# Network

😻 Image	Settings 1	Settings 2
Sett	ings 2 🕨 Advanced 1 🕨 Net	work
Network State		Connect
DHCP		Off
IP Address		255.255.255.255
Subnet Mask		255.255.255.255
Gateway		255.255.255.255
DNS		255.255.255.255
Apply		<b>↓</b> /▶
Menu = Return		Scroll 🔺 🔻

Ітем	DESCRIPTION	
Network State	Displays the network connection status.	
DHCP	Press ◀▶ to turn DHCP On or Off. Note: If you select DHCP Off, complete the IP Address, Subnet Mask, Gateway, and DNS fields.	
IP Address	Enter a valid IP address if DHCP is turned off.	
Subnet Mask	Enter a valid Subnet Mask if DHCP is turned off.	
Gateway	Enter a valid Gateway address if DHCP is turned off.	
DNS	Enter a valid DNS name if DHCP is turned off.	
Apply	Press	

### LAN\_RJ45



# Wired LAN Terminal functionalites

Remote control and monitoring of a projector from a PC (or Laptop) via wired LAN is also possible. Compatibility with Crestron / AMX (Device Discovery) / Extron control boxes enables not only collective projector management on a network but also management from a control panel on a PC (or Laptop) browser screen.

- ★ Crestron is a registered trademark of Crestron Electronics, Inc. of the United States.
- ★ Extron is a registered trademark of Extron Electronics, Inc. of the United States.
- ★ AMX is a registered trademark of AMX LLC of the United States.
- ★ PJLink applied for trademark and logo registration in Japan, the United States of America, and other countries by JBMIA.

## Supported External Devices

This projector is supported by the specified commands of the Crestron Electronics controller and related software (ex, RoomView ®).

http://www.crestron.com/

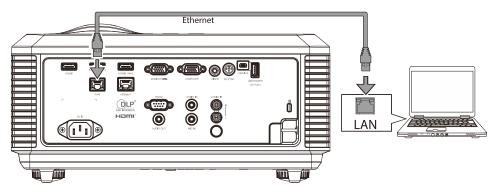
This projector is supported by AMX ( Device Discovery ). <u>http://www.amx.com/</u>

- This projector is compliant to support Extron device(s) for reference. <u>http://www.extron.com/</u>
- This projector supports all commands of PJLink Class1 (Version 1.00). <u>http://pjlink.jbmia.or.jp/english/</u>

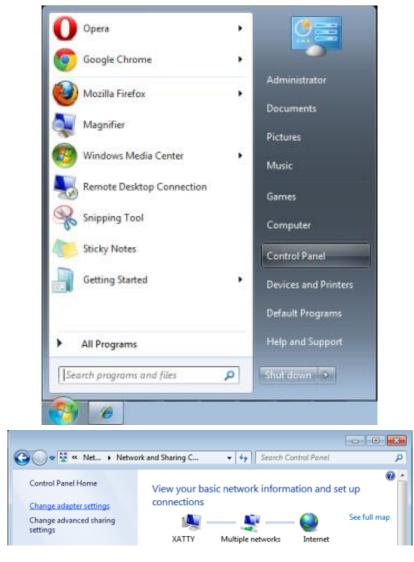
For more detail of information about the diverse types of external devices which can be connected to the LAN/RJ45 port and remote/control the projector, as well as the related control commands supporting for each external device, kindly please get contact with the Support-Service team directly.

# <u>LAN\_RJ45</u>

1. Connect an RJ45 cable to RJ45 ports on the projector and the PC (Laptop).



2. On the PC (Laptop), select Start  $\rightarrow$  Control Panel  $\rightarrow$ Network and Internet.



### **DLP** Projector—User's Manual

3. Right-click on Local Area Connection, and select Properties.



- 4. In the Properties window, select the Networking tab, and select Internet Protocol (TCP/IP).
- 5. Click Properties.

🖳 Local Area Connection Properties		
Networking Sharing		
Connect using:		
VIA Rhine II Compatible Fast Ethemet Adapter		
Configure This connection uses the following items:		
Client for Microsoft Networks     GoS Packet Scheduler     GoS Pac		
Install Uninstall Properties		
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.		
OK Cancel		

6. Click Use the following IP address and fill in the IP address and Subnet mask, then click OK.

Internet Protocol Version 4 (TCP/IPv4) Properties			
General			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
Obtain an IP address automatical	y		
• Use the following IP address:			
IP address:	10 . 10 . 10 . 99		
Subnet mask:	255.255.255.0		
Default gateway:	•••		
Obtain DNS server address automatically			
• Use the following DNS server add	resses:		
Preferred DNS server:			
<u>A</u> lternate DNS server:	• • •		
Vaļidate settings upon exit	Ad <u>v</u> anced		
	OK Cancel		

- 7. Press the **Menu** button on the projector.
- 8. Select Settings2 $\rightarrow$  Advanced1  $\rightarrow$  Network
- 9. After getting into **Network**, input the following:
  - DHCP: Off
  - ▶ IP Address: 10.10.10.10
  - Subnet Mask: 255.255.255.0
  - ▶ Gateway: 0.0.0.0
  - ▶ DNS Server: 0.0.0.0

#### Open a web browser

(for example, Microsoft Internet Explorer with Adobe Flash Player 9.0 or higher).

🖉 Navigatior	Canceled - Windows Internet Explorer	
00-	🙋 http://10.10.10.10/	• <b>&gt;</b> ×
🔆 Favorites		
1	Navigation to the webpage was canceled	
	What you can try:	
	Refresh the page.	

- 11. In the Address bar, input the IP address: 10.10.10.10.

The projector is setup for remote management. The LAN/RJ45 function displays as follows.

#### DIGITAL

Projector Info	Model Name	EV5000_WUXGA	
	System		
Alert Mail Settings	System Status	Power On	
Crestron	Display Source	No Source	
	Lamp Hours	1	
	Display Mode	Presentation	
	Error Status	No Error	
	LAN Status		
	IP address	192.168.0.100	
	Subnet mask	255.255.255.0	
	Default gateway	0.0.0.0	
	DNS Server	0.0.0.0	
	MAC address	00:18:23:50:D1:FB	
	Version		
	LAN Version	MHD03	
	F/W Version	D02	

### **DLP** Projector—User's Manual

Power	Vol -	Mute	Vol +	
SourceList				Interface 2.7.2.4
				iu 🔺 Auto
				Enter
			Blar	ik 🔻 Source
Freeze				pr 🔸
CRESTRON				Expansion Options
Crestron Control		Projector		User Password
IP Address	Projector Name	PJ01		Usr Enabled
IP ID	Location	RM01	Pass	
Control Port	Assigned To	Sir	Confi	rmed
Control Set		Set		Usr Set
	-	DHCP Enabled		
		10.10.10.10	_	Admin Password
	Subnet Mask		_	Adm Enabled
	Default Gateway		Pass	
	DNS Server	0.0.0.0	Confi	
		Net Se	t	Adm Set
		Tools Exit		

CATEGORY	Ітем	INPUT-LENGTH
	IP Address	15
Crestron Control	IP ID	3
	Port	5
	Projector Name	10
Projector	Location	10
	Assigned To	10
	DHCP (Enabled)	(N/A)
	IP Address	15
Network Configuration	Subnet Mask	15
	Default Gateway	15
	DNS Server	15
	Enabled	(N/A)
User Password	New Password	10
	Confirm	10
	Enabled	(N/A)
Admin Password	New Password	10
	Confirm	10

For more information, please visit <u>http://www.crestron.com</u>.

### Preparing Email Alerts

- 1. Make sure that user can access the homepage of LAN RJ45 function by web browser (for ex-ample, Microsoft Internet Explorer v6.01/v8.0).
- 2. From the Homepage of LAN/RJ45, click Alert Mail Settings.

DIGITAL		
Projector Info	Model Name	EV5000_WUXGA
		System
Alert Mail Settings	System Status	Power On
Crestron	Display Source	No Source
	Lamp Hours	1
	Display Mode	Presentation
	Error Status	No Error
	LAN Status	
	IP address	192.168.0.100
	Subnet mask	255.255.255.0
	Default gateway	0.0.0.0
	DNS Server	0.0.0.0
	MAC address	00:18:23:50:D1:FB
		Version
	LAN Version	MHD03
	F/W Version	D02

3. By default, these input boxes in **Alert Mail Settings** are blank.

Projector Info	Se	nd E-Mail	
Alert Mail Settings	Enter	the appropriate settings	in the fields below:
Crestron			quire a user name or password.)
		SMTP Server:	<b>Port:</b> 25
		User Name:	
		Password:	
			Mail Server Apply
		From:	
		То:	
		CC:	
			Mail Address Apply
		E-mail Alert Option	
		Fan lock :	✓ Over_Heat:
		Case Open:	🗹 Lamp Fail: 🗹
		Lamp Hours Over:	✓ Filter Hours Over: ✓
		Weekly Report:	
			Alert Option Apply
			Send Test Mail

4. For Sending alert mail, input the following:

The **SMTP** field is the mail server for sending out email (SMTP protocol). This is a required field.

The **To** field is the recipient's email address (for example, the projector administrator). This is a required field.

The **Cc** field sends a carbon copy of the alert to the specified email address. This is an optional field (for example, the projector administrator's assistant).

The **From** field is the sender's email address (for example, the projector administrator). This is a required field.

Select the alert conditions by checking the desired boxes.

DIGITAL	PROJECTION
---------	------------

Alert Mail Settings	Send E-Ma Enter the appropriate (Your SMTP server ma	settings in t				sword.	)
Crestron							
	SMTP Serve	r: mail.	corp	.com		Port:	25
	User Name:	User Name: Sender.US					
	Password:	Password:					
		Mail Server Apply				er Apply	
	From:	From: send@mail.corp.com					
	To:	rcvr1	rcvr1@mail.corp.com				
	CC:	rcvr2	rcvr2@mail.corp.com				
					Mail	Addres	s Apply
	E-mail Aler	t Options:				_	
	Fan lock :		✓	_			
	Case Open:		<ul> <li>✓</li> </ul>				<ul><li>✓</li><li>✓</li></ul>
	Lamp Hours Weekly Rep			Filter Ho	urs ov	er: 🖻	<b>*</b> _
	Weekly Kep				Ale	rt Ontio	n Apply
					110	it Optio	iii (pp)
		[		Sen	d Test N	Mail	

**Note:** Fill in all fields as specified. User can click **Send Test Mail** to test what setting is correct. For successful sending an e-mail alert, you must select alert conditions and enter a correct e-mail address.

### RS232 by Telnet Function

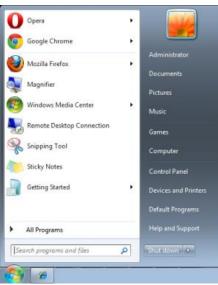
Besides projector connected to RS232 interface with "Hyper-Terminal" communication by dedicated RS232 command control, there is alternative RS232 command control way, so called "RS232 by TELNET" for LAN/RJ45 interface.

## Quick Start-Guide for "RS232 by TELNET"

Check and get the IP-Address on OSD of the projector.

Make sure that laptop/PC can access the web-page of the projector.

Make sure that "Windows Firewall" setting to be disabled in case of "TELNET" function filtering out by laptop/PC.



Start => All Programs => Accessories => Command Prompt



Input the command format like the below:

telnet ttt.xxx.yyy.zzz 23 ("Enter" key pressed)

(ttt.xxx.yyy.zzz: IP-Address of the projector)

If Telnet-Connection ready, and user can have RS232 command input, then "Enter" key pressed, the RS232 command will be workable.

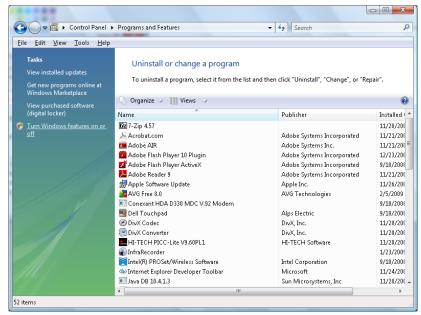
## How to have TELNET enabled in Windows 7/8/10

By default installation for Windows, "TELNET" function is not included. But end-user can have it by way of "Turn Windows features On or Off" to be enabled.

Open "Control Panel" in Windows

Control Panel 🕨	• 4 <sub>7</sub>	٩
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		
Control Panel Home     Classic View	System and Maintenance Get started with Windows Back up your computer	
	Security Check for updates Check this computer's security status Personalization Change desktop background Customize colors Adjust screen resolution	
	Network and Internet View network status and tasks Set up file sharing View network status and tasks	ш
	Hardware and Sound Play CDs or other media automatically Printer Mouse Hardware and Sound Play CDs or other media automatically Printer Mouse Ease of Access Let Windows suggest settings Optimize visual display	
Recent Tasks Contemporation Recent Tasks Windows Firewall Contemporation Recently Recently Recent Tasks Recen	Programs Uninstall a program Change startup programs         Additional Options	
off Printer	Mobile PC Change battery settings Adjust commonly used mobility	Ŧ

Open "Programs"



Select "Turn Windows features on or off" to open

🕤 Windows Features 📃 🗆 🗖	x
Turn Windows features on or off	0
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.	
🔲 ]] RIP Listener	<u> </u>
🔲 🖟 Simple TCPIP services (i.e. echo, daytime etc)	
🕀 🔲 📙 SNMP feature	
🔽 🆺 Tablet PC Optional Components	
🔽 🌗 Telnet Client	
Telnet Server	_
☑ ↓ TFTP Client	
Windows DFS Replication Service	
🛛 🖳 Windows Fax and Scan	
🔽 🎍 Windows Meeting Space	
🗉 🔲 🖟 Windows Process Activation Service	
	Ŧ
OK Cancel	

Have "Telnet Client" option checked, then press "OK" button.

Microsoft Windows
Please wait while the features are configured. This might take several minutes.
Cancel

# Specsheet for "RS232 by TELNET" :

- 1. Telnet: TCP
- 2. Telnet port: 23

(for more detail, kindly please get contact with the service agent or team)

- 3. Telnet utility: Windows "TELNET.exe" (console mode)
- 4. Disconnection for RS232-by-Telnet control normally: Close Windows Telnet utility directly after TELNET connection ready
- 5. Limitation 1 for Telnet-Control: there is less than 50 bytes for successive network payload for Telnet-Control application.

Limitation 2 for Telnet-Control: there is less than 26 bytes for one complete RS232 command for Telnet-Control.

Limitation 3 for Telnet-Control: Minimum delay for next RS232 command must be more than 200 (ms).

(\*, In Windows built-in "TELNET.exe" utility, "Enter" key pressed will have "Carriage-Return" and "New-Line" code.)

# Advanced 2 Feature

Press the **Menu** button to open the **OSD** menu. Press  $\blacktriangleleft \triangleright$  to move to the **Settings 2** menu. Press  $\blacktriangle \lor$  to move to the **Advanced 2** menu and then press **Enter** or  $\triangleright$ . Press  $\blacktriangle \lor$  to move up and down in the **Advanced 2** menu. Press  $\blacktriangleleft \triangleright$  to enter and change values for setting.

image	Settings 1	¥??	Settings 2
Sleep Timer (min) Source Filter Air Filter Settings	Settings 2 Advanced 2	1	0 +!/> +!/>
Menu = Return		Scrol	

Ітем	DESCRIPTION		
Sleep Timer	Press the cursor ◀▶ button to enter and set Sleep timer. The projector automatically turns off after the preset period of time.		
Source Filter Press			
Air Filter Settings	Press		

# Source Filter

Press the ENTER button to enter the Source Filter sub menu.



Ітем	DESCRIPTION		
HDMI1	Press the cursor ◀▶ button to enter and enable or disable the HDMI1 source.		
HDMI2	Press the cursor ◀▶ button to enter and enable or disable the HDMI2 source.		
HDMI3/MHL	Press the cursor ◀▶ button to enter and enable or disable the HDMI3 / MHL-compatible source.		
VGA	Press the cursor $\blacktriangleleft$ button to enter and enable or disable the VGA source.		
Composite Video	Press the cursor ◀▶ button to enter and enable or disable the Composite Video source.		
HDBaseT	Press the cursor ◀▶ button to enter and enable or disable the HDBaseT source.		

# Air Filter Settings

Press the ENTER button to enter the Air Filter Settings sub menu.



Ітем	DESCRIPTION		
Air Filter Hours	Showing Air filter hours.		
Time Reminder	Press the cursor $\blacktriangleleft \triangleright$ button to enter and select the Time Reminder.		
Reset Timer	Press ◀┛ (Enter) / ► to confirm settings		

# **MAINTENANCE AND SECURITY**

# **Cleaning the Projector**

Cleaning the projector to remove dust and grime will help ensure trouble-free operation.

# / Warning:

**1.** Be sure to turn off and unplug the projector at least 30 minutes before cleaning. Failure to do so could result in a severe burn.

**2.** Use only a dampened cloth when cleaning. Do not allow water to enter the ventilation openings on the projector.

**3.** If a little water gets into the projector interior while cleaning, leave unplugged in a well-ventilated room for several hours before using.

4. If a lot of water gets into the projector interior when cleaning, have the projector serviced.

# Cleaning the Lens

You can purchase optic lens cleaner from most camera stores. Refer to the following to clean the projector lens.

- 1. Apply a little optic lens cleaner to a clean soft cloth. (Do not apply the cleaner directly to the lens.)
- 2. Lightly wipe the lens in a circular motion.



1. Do not use abrasive cleaners or solvents.

2. To prevent discoloration or fading, avoid getting cleaner on the projector case.

### Cleaning the Case

Refer to the following to clean the projector case.

- 1. Wipe off dust with a clean dampened cloth.
- 2. Moisten the cloth with warm water and mild detergent (such as used to wash dishes), and then wipe the case.
- 3. Rinse all detergent from the cloth and wipe the projector again.

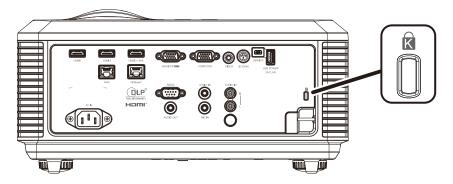
### Caution:

To prevent discoloration or fading of the case, do not use abrasive alcohol-based cleaners.

## **Using the Physical Lock**

### Using the Kensington Security Slot

If you are concerned about security, attach the projector to a permanent object with the Kensington slot and a security cable.



#### Note:

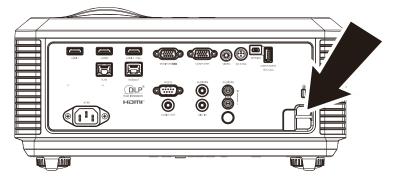
Contact your vendor for details on purchasing a suitable Kensington security cable.

The security lock corresponds to Kensington's MicroSaver Security System. If you have any comment, contact: Kensington, 2853 Campus Drive, San Mateo, CA 94403, U.S.A. Tel: 800-535-4242, <u>http://www.Kensington.com</u>.

### Using the Security Bar Lock

In addition to the password protection function and the Kensington lock, the Security Bar Opening helps protect the projector from unauthorized use.

See the following picture.



# **TROUBLESHOOTING**

### **Common Problems and Solutions**

These guidelines provide tips to deal with problems you may encounter while using the projector. If the problem remains unsolved, contact your dealer for assistance.

Often after time spent troubleshooting, the problem is traced to something as simple as a loose connection. Check the following before proceeding to the problem-specific solutions.

- Use some other electrical device to confirm that the electrical outlet is working.
- Ensure the projector is turned on.
- Ensure all connections are securely attached.
- Ensure the attached device is turned on.
- Ensure a connected PC is not in suspending mode.
- Ensure a connected notebook computer is configured for an external display. (This is usually done by pressing an Fn-key combination on the notebook.)

#### **Tips for Troubleshooting**

In each problem-specific section, try the steps in the order suggested. This may help you to solve the problem more quickly.

Try to pin point the problem and thus avoid replacing non-defective parts.

For example, if you replace batteries and the problem remains, put the original batteries back and go to the next step.

Keep a record of the steps you take when troubleshooting: The information may be useful when calling for technical support or for passing on to service personnel.

### **LED Error Messages**

ERROR CODE MESSAGES	Power LED	LIGHT LED	TEMP LED
Light Source Ready	ON	OFF	OFF
Start	Flashing	OFF	OFF
Cooling	Flashing	OFF	OFF
Over Temperature T1	OFF	1 blinks	ON
Over Temperature T2	OFF	2 blinks	ON
Over Temperature T3	OFF	3 blinks	ON
Over Temperature T4	OFF	4 blinks	ON
Over Temperature T5	OFF	5 blinks	ON
Thermal Break Sensor error	4 blinks	OFF	OFF
Light Source error	5 blinks	OFF	OFF
FAN1 error	6 blinks	1 blinks	OFF
FAN2 error	6 blinks	2 blinks	OFF
FAN3 error	6 blinks	3 blinks	OFF
FAN4 error	6 blinks	4 blinks	OFF
FAN5 error	6 blinks	5 blinks	OFF
FAN6 error	6 blinks	6 blinks	OFF
FAN7 error	6 blinks	7 blinks	OFF
FAN8 error	6 blinks	8 blinks	OFF
FAN9 error	6 blinks	9 blinks	OFF
FAN10 error	6 blinks	10 blinks	OFF
1W MCU detects scaler stops working	2 blinks	OFF	OFF
Case Open	7 blinks	OFF	OFF
Lens Open	7 blinks	1 blinks	OFF
DMD error	8 blinks	OFF	OFF
Color wheel error	9 blinks	OFF	OFF
Phosphor wheel error	9 blinks	1 blinks	OFF

In the event of an error, please disconnect the AC power cord and wait for one (1) minute before restarting the projector. If the Power or Light source LEDs are still blinking or the Over Temp LED is lit, contact your service center.

### Image Problems

#### Problem: No image appears on the screen

- 1. Verify the settings on your notebook or desktop PC.
- 2. Turn off all equipment and power up again in the correct order.

#### Problem: The image is blurred

- 1. Adjust the **Focus** on the projector.
- 2. Press the Auto button on the remote control or projector.
- 3. Ensure the projector-to-screen distance is within the specified range.
- 4. Check that the projector lens is clean.

#### Problem: The image is wider at the top or bottom (trapezoid effect)

- 1. Position the projector so it is as perpendicular to the screen as possible.
- 2. Use the Keystone button on the remote control or projector to correct the problem.

#### Problem: The image is reversed

Check the **Projection** setting on the **Settings 1** menu of the OSD.

#### Problem: The image is streaked

- 1. Set the Frequency and Tracking settings on the Image->Computer menu of the OSD to the default settings.
- 2. To ensure the problem is not caused by a connected PC's video card, connect to another computer.

#### Problem: The image is flat with no contrast

Adjust the Contrast setting on the Image menu of the OSD.

#### Problem: The color of the projected image does not match the source image.

Adjust the **Color Temperature** and **Gamma** settings on the **Image->Advanced** menu of the OSD.

### **Light Source Problems**

#### Problem: There is no light from the projector

- 1. Check that the power cable is securely connected.
- **2.** Ensure the power source is good by testing with another electrical device.
- 3. Restart the projector in the correct order and check that the Power LED is on.

#### **Remote Control Problems**

#### Problem: The projector does not respond to the remote control

- 1. Direct the remote control towards remote sensor on the projector.
- 2. Ensure the path between remote and sensor is not obstructed.
- 3. Turn off any fluorescent lights in the room.
- 4. Check the battery polarity.
- 5. Replace the batteries.
- 6. Turn off other Infrared-enabled devices in the vicinity.
- 7. Have the remote control serviced.

#### Audio Problems

#### Problem: There is no sound

- 1. Adjust the volume on the remote control.
- **2.** Adjust the volume of the audio source.
- **3.** Check the audio cable connection.
- 4. Test the source audio output with other speakers.
- **5.** Have the projector serviced.

#### Problem: The sound is distorted

- 1. Check the audio cable connection.
- 2. Test the source audio output with other speakers.
- 3. Have the projector serviced.

#### Having the Projector Serviced

If you are unable to solve the problem, you should have the projector serviced. Pack the projector in the original carton. Include a description of the problem and a checklist of the steps you took when trying to fix the problem: The information may be useful to service personnel. For servicing, return the projector to the place you purchased it.

### HDMI Q & A

Q. What is the difference between a "Standard" HDMI cable and a "High-Speed" HDMI cable?

Recently, HDMI Licensing, LLC announced that cables would be tested as Standard or High-Speed cables.

Standard (or "category 1") HDMI cables have been tested to perform at speeds of 75Mhz or up to 2.25Gbps, which is the equivalent of a 720p/1080i signal.

'High Speed (or "category 2") HDMI cables have been tested to perform at speeds of 340Mhz or up to 10.2Gbps, which is the highest bandwidth currently available over an HDMI cable and can successfully handle 1080p signals including those at increased color depths and/or increased refresh rates from the Source. High-Speed cables are also able to accommodate higher resolution displays, such as WQXGA cinema monitors (resolution of 2560 x 1600).

#### Q. How do I run HDMI cables longer than 10 meters?

There are many HDMI Adopters working on HDMI solutions that extend a cable's effective distance from the typical 10 meter range to much longer lengths. These companies manufacture a variety of solutions that include active cables (active electronics built into cables that boost and extend the cable's signal), repeaters, amplifiers as well as CAT5/6 and fiber solutions.

#### Q. How can I tell if a cable is an HDMI certified cable?

All HDMI products are required to be certified by the manufacturer as part of the HDMI Compliance Test Specification. However, there may be instances where cables bearing the HDMI logo are available but have not been properly tested. HDMI Licensing, LLC actively investigates these instances to ensure that the HDMI trademark is properly used in the market. We recommend that consumers buy their cables from a reputable source and a company that is trusted.

For more detail information check <u>http://www.hdmi.org/learningcenter/faq.aspx#49</u>

# **SPECIFICATIONS**

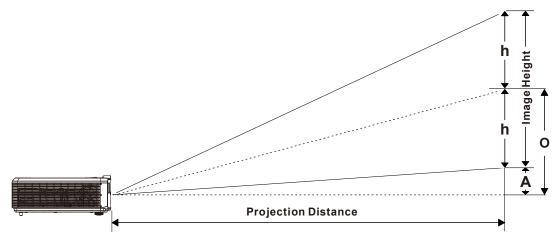
# Specifications

Model Name		E-Vision Laser 6110WU					
Display Type		0.67 WUXGA, S600HB PACKAGE					
Resolution		WUXGA, 1920x1200					
Throw Ratio	)	0.5					
Zoom Ratio		Fix					
Image size (	(diagonal)	72"~122"					
Projection d	listance	0.76~1.35m					
Keystone	Vertical	+/- 15 Degree					
Correction	Horizontal	+/- 15 Degree					
Projection M	lethods	Front, Rear, Desktop/Ceiling (Rear, Front)					
Data Compa	atibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA@60hz, Mac					
SDTV/EDTV	/ HDTV	480i, 576i, 480p, 576p, 720p, 1080i, 1080p					
Video Comp	oatibility	NTSC (M, 3.58/4.43 MHz), PAL (B,D,G,H,I,M,N), SECAM (B,D,G,K,K1,L)					
H-Sync		15.31 – 102kHz					
V-Sync		24 - 30Hz, 47 – 120 Hz					
Safety Certi		FCC-B, cUL, UL, CB, CE, CCC, KC, CU, BSMI, China CECP, RCM					
Environmental Operation Condition		0° ~ 40°C,10~85%(No condensing)					
Environmental Storage Condition		-20° ~ 60°C, 5% to 95% (No condensation)					
Dimensions	;	360mm (W) x 437.1mm (D) x 178.3mm (H) (Including height of foot)					
AC Input		AC Universal 100 – 240, Typical @ 110VAC (100 – 240)/+-10%					
Power Cons	sumption	530W (Normal), 380W (Eco) , <0.5W (Standby), <2W (on by Lan)					
Light Sourc Laser-Phos	e: phor	2 MCL					
Audio Spea	ker	5W x 2					
		VGA in x 1					
		Mini-jack Stereo x 1					
		Composite video x 1					
Input Termi	nals	HDMI (MHL) x 1, HDMI x 2					
		Audio RCA (R/L) x 1					
		HDBaseT x 1					
		Mini-jack Microphone x 1					
		VGA x 1					
Output Tern	ninals	Audio out x 1					
		USB Type A for power support on WHDI x 1					
		3D-Sync x 1					

	RS-232C x 1					
Control Terminals	RJ45 x 1 (10/100Mbps)					
	USB mini B for service x 1					
0	Kensington Security Slot					
Security	Security Bar					

Note: For questions regarding product specifications, please contact your local distributor.

# **Projection Distance vs. Projection Size**



# Projection Distance and Size Table

TR: 0.5, offset=110.5%

	PROJECTION DISTANCE AND SIZE TABLE								
Distance (m)	0.76	0.85	0.95	1.05	1.15	1.25	1.35		
Diagonal (")	70.6	78.9	88.2	97.5	106.8	116.1	125.4		
Image Width (mm)	1520.0	1700.0	1900.0	2100.0	2300.0	2500.0	2700.0		
Image Height (mm)	950.0	1062.5	1187.5	1312.5	1437.5	1562.5	1687.5		
h (mm)	475.0	531.3	593.8	656.3	718.8	781.3	843.8		
O (mm)	574.8	642.8	718.4	794.1	869.7	945.3	1020.9		
A (mm)	99.8	111.6	124.7	137.8	150.9	164.1	177.2		

offset % = (O+h)/(2xh) × 100% O=A+h

h=(1/2) × (image height)

# Timing Mode Table

# Table of Supported Frequency

The unit automatically determines PC signals to select the appropriate resolution. Some signals may require manual adjustment.

Signal	RESOLUTION	H-SYNC (KHz)	V-Sync (Hz)	Composite	COMPONENT	RGB/BNC (Analog)	HDMI/ HDBASET (DIGITAL)
NTSC	—	15.734	60.0	0	—	—	—
PAL/SECAM	—	15.625	50.0	0	_	—	—
	640 x 400	37.9	85.08	—	_	0	0
	720 x 400	31.5	70.1	—	—	0	0
	720 x 400	37.9	85.04	—	—	0	0
	640 x 480	31.5	60.0	—	_	0	0
	640 x 480	37.9	72.8	—	_	0	0
	640 x 480	37.5	75.0	—	—	0	0
	640 x 480	43.3	85.0	—	_	0	0
	800 x 600	35.2	56.3	—	_	0	0
	800 x 600	37.9	60.3	—	_	0	0
	800 x 600	46.9	75.0	—	_	0	0
	800 x 600	48.1	72.2	—	_	0	0
	800 x 600	53.7	85.1	—	_	0	0
	800 x 600	76.3	120.0	—	_	0	0
	1024 x 576	35.8	60.0	—	_	0	0
	1024 x 600	37.3	60.0	—	_	0	0
	1024 x 600	41.5	65.0	—	_	0	0
VESA	1024 x 768	48.4	60.0	—	_	0	0
VESA	1024 x 768	56.5	70.1	—	_	0	0
	1024 x 768	60.0	75.0	—	_	0	0
	1024 x 768	68.7	85.0	—	_	0	0
	1024 x 768	97.6	120.0	—	_	0	0
	1024 x 768	99.0	120.0	—	—	0	0
	1152 x 864	67.5	75.0	—	—	0	0
	1280 x 720	45.0	60.0	—	_	0	0
	1280 x 720	90.0	120.0	—	—	0	0
	1280 x 768	47.4	60.0	—	_	0	0
	1280 x 768	47.8	59.9	—	—	0	0
	1280 x 800	49.7	59.8	—	—	0	0
	1280 x 800	62.8	74.9	—		0	0
	1280 x 800	71.6	84.9	—		0	0
	1280 x 800	101.6	119.9	—		0	0
	1280 x 1024	64.0	60.0	—		0	0
	1280 x 1024	80.0	75.0	—		0	0
	1280 x 1024	91.1	85.0	_		0	0

Signal	RESOLUTION	H-Sync (KHz)	V-Sync (Hz)	Composite	COMPONENT	RGB/BNC (Analog)	HDMI/ HDBaseT (Digital)
	1280 x 960	60.0	60.0	_	_	0	0
	1280 x 960	85.9	85.0	—	—	0	0
	1360 x 768	47.7	60.0	—	_	0	0
	1400 x 1050	65.3	60.0	—	—	0	0
	1440 x 900	55.5	59.9	—	—	0	0
	1440 x 900	55.9	59.9	—	_	0	0
	1440 x 900	70.6	75.0	—	_	0	0
	1600 x1200	75.0	60	—	—	0	0
	1680 x 1050	64.7	59.9	—	—	0	0
	1680 x 1050	65.3	60.0	—	—	0	0
	1920 x 1200	74.0	60.0	—	—	0	0
	1920 x 1080	67.5	60.0	—	—	0	0
	640 x 480	35.0	66.7	—	_	0	0
Apple	832 x 624	49.7	74.5	—	_	0	0
Macintosh	1024 x 768	60.2	74.9	—	_	0	0
	1152 x 870	68.7	75.1	—	—	0	0
	480i	15.734	60.0	—	0	—	0
SDTV	576i	15.625	50.0	—	0	—	0
	576p	31.3	50.0	—	0	—	0
EDTV	480p	31.5	60.0	—	0	—	0
	720p	37.5	50.0	—	0	—	0
	720p	45.0	60.0	—	0	—	0
	1080i	33.8	60.0	—	0	—	0
	1080i	28.1	50.0	—	0	—	0
HDTV	1080p	27	24.0	—	0	—	0
	1080p	28	25.0	—	0	—	0
	1080p	33.7	30.0	—	0	—	0
	1080p	56.3	50.0	—	0	—	0
	1080p	67.5	60.0	—	0	—	0

O: Frequency supported

-: Frequency not supported

★The native resolution of the panel is 1280 x 800. Resolution other than native resolution may be display with uneven size of text or line.

★The color of \_\_\_\_\_ mean Displayable only. (4:3 only)

★The color of \_\_\_\_\_ mean may have a little noise is acceptable.

★HDTV timing main check tool is DVD player, VG828 is secondary

## Table of Supported Frequency For 3D mode

The unit automatically determines PC signals to select the appropriate resolution. Some signals may require manual adjustment.

## Input Signal for D-SUB/HDMI

Signal	RESOLUTION	REFRESH RATE(HZ)
SVGA	800 X 600	60/120
XGA	1024 X 768	60/120
HDTV(720P)	1280 X 720	60/120
WXGA	1280 X 800	60/120

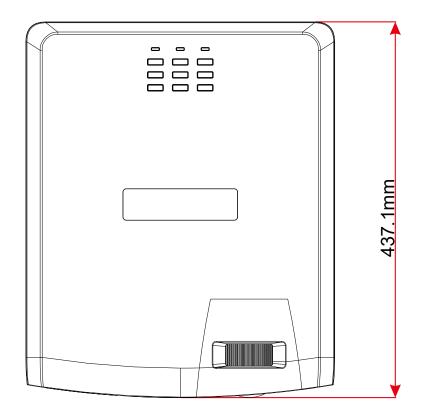
# True 3D Video Compatibility table

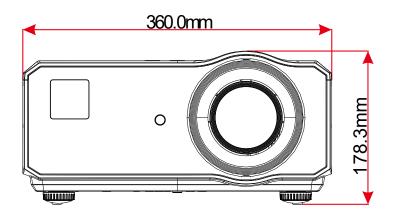
		Input timing						
		1280 X 720P @ 50Hz	Top - and - Bottom					
		1280 X 720P @ 60Hz	Top - and - Bottom					
		1280 X 720P @ 50Hz	Frame packing					
	HDMI 1.4a 3D Input	1280 X 720P @ 60Hz	Frame packing					
		1920 X 1080i @50 Hz	Side- by-Side (Half)					
		1920 X 1080i @60 Hz	Side- by-Side (Half)					
Input		1920 X 1080P @24 Hz	Top - and – Bottom					
Resolutions		1920 X 1080P @24 Hz	Frame packing					
	HDMI 1.3	1920 x 1080i @ 50Hz 1920 x1080i @ 60Hz 1280 x 720P @50Hz 1280 x 720P @60Hz	Side-by-Side(Half)	SBS mode is on				
		1920 x 1080i @ 50Hz 1920 x1080i @ 60Hz 1280 x 720P @50Hz 1280 x 720P @60Hz	Top-and-Bottom	TAB mode is on				
		480i	HQFS 3D format is Frame sequential					

Note:

3D glasses must be supported to 144Hz.

# **Projector Dimensions**





# **REGULATORY COMPLIANCE**

### **FCC Warning**

This equipment 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 when the equipment is operated in a commercial environment.

This equipment 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 this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Changes or modifications not expressly approved by the parties responsible for compliance could void the user's authority to operate the equipment.

### Canada

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

### **Safety Certifications**

FCC-B, cUL, UL, CB, CE, CCC, KC, CU, BSMI, China CECP, and RCM.



### **RS-232** Communication

#### Communication parameter setup

You can use the serial control command to input commands for projector control or retrieve its operational data through Windows client terminal software

Item	Parameter:
Bit per Second	9600 bps
Data Bit	8-bit
Parity	None
Stop Bit	1
Flow Control	None

Note:

\* The UART terminal timeout is 0.5 sec.

\* Both are available for upper case or lower case

#### **Operation commands**

#### Operation command syntax

An operation command is prefixed by character "op", followed by control commands and settings separated by space blank [SP], and ended by carriage return pair "CR" and "ASCII hex 0D".Syntax of serial control commands:

op[SP]<operation command>[SP]<Setting Value>[CR]

- op A constant indicating this is an operation command.
- [SP] Indicate one blank space.
- [CR] Indicate the command ending carriage return pair "CR" and "ASCII hex 0D".

Setting value Settings of operation command

Types of setup strings	Characters of settings	Description
Query current setup	?	Question mark "?" indicates querying current setup
Setup	= <settings></settings>	Syntax: Symbol "=" suffixed with setup values
Increase setup order of adjustment items	+	Some settings are changed in steps. Symbol "+" indicates changing one step up
Decrease setup order of adjust- ment items	-	Some settings are changed in steps. Symbol "-" indicates changing one step down
Execute operation command	None	Certain operation commands execute after input without further setting or regulators.

Examples:							
Control items	Input command row	Projector return message					
Execute command	reset.all[CR]	RESET.ALL					
Query current brightness	op bright ?[CR]	OP BRIGHT = 50					
Set up brightness	op bright = 100[CR]	OP BRIGHT = 100					
Brightness value + 1	op bright +[CR]	OP BRIGHT = "new value"					
Brightness value - 1	op bright -[CR]	OP BRIGHT = "new value"					
Out of range or not support	op bright = 200[CR]	OP BRIGHT = NA					
Illegal command	op abright = 100[CR]	*Illegal format#					

Note:

When sending the multiple commands, make sure the return message of the last command is received before sending out the next one.

Function	Operation	Set	Get	Inc	Dec	EXE	Values
Auto Source	auto.src	V	V				0 : Off 1 : On
Video AGC	video.agc	V	V				0 : Off 1 : On
Video Saturation	video.saturation	V	V	V	V		0 ~ 100
Video Tint	video.tint	V	V	V	V		0 ~ 100
Closed Caption	сс	V	V				0 : Off 1 : On
Horizontal Position	h.pos	V	V	V	V		-5 ~ +5 -100 ~ +100(Auto Sync Off)
Vertical Position	v.pos	V	V	V	V		-5 ~ +5 -100 ~ +100(Auto Sync Off)
Phase(Frequency)	phase	V	V	V	V		0 ~ 31
clock (Tracking)	clock	V	V	V	V		-5 ~ +5
Auto Sync	auto.sync	V	V				0 : Off
							1 : On 0 : Off
HDBaseT Control	hdbaset	V	V		-		1 : On
HDBaseT Connect	hdbaset.connect		V				0 : Disconnect 1 : Connected
3D	threed	V	v				0 : Off 1 : DLP-Link 2 : IR
3D Sync Invert	threed.syncinvert	V	V				0 : Off
3D Format	threed.format	v	V				1 : On 0 : Frame Sequential 1 : Top / Bottom 2 : Side by side 3 : Frame Packing
Picture Mode	pic.mode	V	V				0 : Presentation 1 : Bright 2 : Game 3 : Movie 4 : Vivid 5 : TV 6 : sRGB 8 : DICOM SIM 9 : User 10 : User2
Brightness	bright	V	V	V	V		0 ~ 100
Contrast	contrast	V	V	V	V		0 ~ 100
HSG/Red Gain	hsg.r.gain	V	V	V	V		0 ~ 100
HSG/Green Gain	hsg.g.gain	V	V	V	V		0 ~ 100
HSG/Blue Gain	Hsg.b.gain	V	V	V	V		0 ~ 100
HSG/Cyan Gain	hsg.c.gain	V	V	V	V		0 ~ 100
HSG/Magenta Gain	hsg.m.gain	V	V	V	V		0 ~ 100
HSG/Yellow Gain	hsg.y.gain	V	V	V	V		0 ~ 100
HSG/Red/Saturation	hsg.r.sat	V	V	V	V		0 ~ 100

Function	Operation	Set	Get	Inc	Dec	EXE	Values
HSG/Green/Saturation	hsg.g.sat	V	V	V	V		0 ~ 100
HSG/Blue/Saturation	Hsg.b.sat	V	V	V	V		0 ~ 100
HSG/Cyan/Saturation	hsg.c.sat	V	V	V	V		0 ~ 100
HSG/Magenta/Saturation	hsg.m.sat	V	V	V	V		0 ~ 100
HSG/Yellow/Saturation	Hsg.y.sat	V	V	V	V		0 ~ 100
HSG/Red/Hue	hsg.r.hue	V	V	V	V		0 ~ 100
HSG/Green/Hue	hsg.g.hue	V	V	V	V		0 ~ 100
HSG/Blue/Hue	Hsg.b. hue	V	V	V	V		0 ~ 100
HSG/Cyan/Hue	hsg.c. hue	V	V	V	V		0 ~ 100
HSG/Magenta/Hue	hsg.m. hue	V	V	V	V		0 ~ 100
HSG/Yellow/Hue	Hsg.y. hue	V	V	V	V		0 ~ 100
HSG/White/Red Gain	hsg.wr.gain	V	V	V	V		0 ~ 100
HSG/White/Green Gain	hsg.wg.gain	V	V	V	V		0 ~ 100
HSG/White/Blue Gain	Hsg.wb.gain	V	V	V	V		0 ~ 100
Brilliant Color	bri.color	V	V	V	V		0 ~ 10
Sharpness	sharp	V	V	V	V		0 ~ 31
Gamma	gamma	V	V				0 : 1.8 1 : 2.0 2 : 2.2 3 : 2.4 4 : B&W 5 : Linear
Color Temperature	color.temp	V	V				0 : Warm 1 : Normal 2 : Cold
White Balance /Red Offset	red.offset	V	V	V	V		-100 ~ +100
White Balance /Green Offset	green.offset	V	V	V	V		-100 ~ +100
White Balance /Blue Offset	blue.offset	V	V	V	V		-100 ~ +100
White Balance /Red Gain	red.gain	V	V	V	V		0 ~ 200
White Balance /Green Gain	green.gain	V	V	V	V		0 ~ 200
White Balance /Blue Gain	blue.gain	V	V	V	V		0 ~ 200
Aspect Ratio	aspect	V	V				0 : Fill 1 : 4:3 2 : 16:9 3 : LetterBox 4 : Native 5 : 2.35:1
Digital Zoom	zoom	V	V	V	V		-10 ~ +10
V Keystone	v.keystone	V	V	V	V		-15 ~ +15
H Keystone	h.keystone	V	V	V	V		-15 ~ +15
H Image Shift	img.hshift	V	V	V	V		-50 ~ +50
V Image Shift	img.vshift	V	V	V	V		-50 ~ +50

Function	Operation	Set	Get	Inc	Dec	EXE	Values
Projection	projection	V	V				0 : Normal 1 : Rear 2 : Ceiling 3 : Rear + Ceiling
Test Pattern	test.pattern	V	V				0 : None 1 : RGB Ramps 2 : Color Bars 3 : Setp Bars 4 : Checkboard 5 : Grid 6 : Horizontal Lines 7 : Vertical Lines 8 : Diagnoal Lines 9 : Horizontal Ramp 10 : Vertical Ramp 11 : White 12 : Red 13 : Green 14 : Blue 15 : Black
Auto Power On	direct.poweron	V	V				0 : Off 1 : On
Light Mode	light.mode	V	V				0 : Normal (100%) 1 : Eco (80%) 2 : Dimming (40%) 3 : Extreme Dimming (25%) 4 : Custom Light (25~100) 5 : Constant Brightness
Custom Light	custom.light	V	V	V	V		25 ~ 100
Fan Speed	fanspeed	V	V				0 : Normal 1 : High
IR Setting	ir.control	V	V				0 : All 1 : Front IR 2 : Rear IR
Remote ID	remote.id	V	V				0 : Default(ID0) 1 : ID1 2 : ID2 3 : ID3 4 : ID4 5 : ID5 6 : ID6 7 : ID7
NetWork Status	net.status		V				0 : Disconnect 1 : Connect
NetWork / DHCP	net.dhcp	V	V				0 : Off 1 : On
NetWork / IP Address	net.ipaddr	V	V				<string></string>
NetWork / Subnet Mask	net.subnet	V	V				<string></string>
NetWork / Gateway	net.gateway	V	V				<string></string>
NetWork / DNS	net.dns	V	V				<string></string>
NetWork Apply	net.apply	V					0 : Cancel 1 : OK

Function	Operation	Set	Get	Inc	Dec	EXE	Values
Low Power Mode	standby.power	V	V				1 : On (0.5W) 2 : On By Lan 3 : On By HDBaseT
No Signal Power Off	nosignal.poweroff	V	V				0 ~ 36
Sleep Timer	sleep.timer	V	V				0 ~ 120
Volume	volume	V	V	V	V		0 ~ 10
Mic Volume	mic.volume	V	V	V	V		0 ~ 10
Міс	mic	V	V				0 : Off 1 : On
Air Filter Hours	airfilter.hours		V				<string></string>
Air Filter Time Reminder	airfilter.reminder	v	V				0 : Off (default) 1 : 300 Hrs 2 : 500 Hrs 3 : 1000 Hrs 4 : 1500 Hrs 5 : 2000 Hrs
Air Filter Hour Reset	airfilter.reset					V	
Blank Screen	blankscreen.color	v	V				0 : Black 1 : Red 2 : Green 3 : Blue 4 : White
Splash Logo	logo	V	V				0 : Std. 1 : Black 2 : Blue
MENU Position	menu.position	V	V				0 : Left 1 : Right 2 : Center 3 : Down 4 : Up
Translucent Menu	menu.trans	v	V				0 : Off 1 : 25% 2 : 50% 3 : 75% 4 : 100%
Keypad Lock	keypad.lock	V	V				0 : Off 1 : On
Security Lock	security.lock	V	V				1 : Up 2 : Down 3 : Left 4 : Right
Security Unlock	security.unlock	V					1 : Up 2 : Down 3 : Left 4 : Right

Function	Operation	Set	Get	Inc	Dec	EXE	Values
Language	lang	V	V				0 : English 1 : French 2 : German 3 : Spanish 4 : Portuguese 5 : Simplified Chinese 6 : Traditional Chinese 7 : Italian 8 : Norwegian 9 : Swedish 10 : Dutch 11 : Russian 12 : Polish 13 : Finnish 14 : Greek 15 : Korean 16 : Hungarian 17 : Czech 18 : Arabic 19 : Turkish 20 : Vietnamese 21 : Japanese 22 : Thai 23 : Farsi 24 : Hebrew 25 : Danish 26 : French Canadian
Reset All	reset.all					V	
Source Info	source.info		V				<string></string>
Light Hours 1	light1.hours		V				<string></string>
Light Hours 1 Reset	light1.reset					V	
Software Version	sw.ver		V				<string></string>
Serial Number	ser.no		V				<string></string>
Auto Image	auto.img					V	
Light 1 Status	light1.stat		V				0 : Off 1 : On
Model	model		V				<string></string>
Pixel Clock	pixel.clock		V				<string></string>
H Refresh Rate	h.refresh		V				<string></string>
V Refresh Rate	v.refresh		V				<string></string>
Blank	blank	V	V				0 : Off 1 : On
Power On	power.on					V	
Power Off	power.off					V	
Projector Status	status		V				0 : Reset 1 : Standby 2 : Active 3 : cooling 4 : Warming 5 : Power Up

Function	Operation	Set	Get	Inc	Dec	EXE	Values
Mute	mute	V	V				0 : Off 1 : On
Freeze	freeze	V	V				0 : Off 1 : On
Input Select	input.sel	V	V				1 : RGB (VGA) 4 : Composite Video 6 : HDMI 1 9 : HDMI 2 12 : HDMI 3 / MHL 15 : HDBaseT