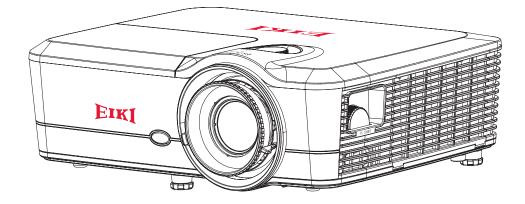


Owner's Manual



Multimedia Projector

Model EK-600U/ EK-601W

Features and Design

This Multimedia Projector is designed with the most advanced technology for portability, durability, and ease of use. This projector utilizes a high luminance and Eco friendly system, a palette of 1.07 billion colors, and digital light processing (DLP) technology.

Compact Design

This projector is designed compact in size and weight. It is easy to carry and installed anywhere you wish to use.

Simple Computer System Setting

The projector has the Multi-scan system to conform to almost all computer output signals quickly. Up to WUXGA (EK-600U) or WXGA (EK-601W) resolution can be accepted.

Useful Functions for Presentations

The digital zoom function allows you to focus on the crucial information during a presentation.

Lamp Control

Brightness of the projection lamp can be manually selected (Constant Power, Constant Luminance, or Eco Mode).

Background Color Function

The Background Color function allows you to specify the screen background ("Black", "Red", "Blue", "Green", or "White" screen) when no signal is available.

Multilanguage Menu Display

Operation menu is available in 22 languages; English, German, French, Italian, Spanish, Portguese, Swedish, Dutch, Norsk/Dansk, Polish, Russian, Finnish, Hungarian, Czech, Arabic, Traditional Chinese, Simplified Chinese, Japanese, Korean, Thai, Turkish, and Indonesian.

Helpful Maintenance Functions

Lamp and filter maintenance functions provide for better and proper maintenance of the projector.

Security Function

The Security function helps you to ensure security of the projector.

LAN Network Function

This projector is loaded with the Wired LAN network function. You can operate and manage the projector via network. For details, refer to pages 45 - 52.

Auto Setup Function

This function enables auto input search and auto signal adjustment simply by pressing the Auto button on the keypad or remote control.

Power Management

The Power management function reduces power consumption and maintains the lamp life.

Note:

The screen menu and pictures in the manual may slightly differ from the real product. The manual is subject to change without prior notice.

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Trademark Recognition

All other product names used in this manual are the properties of their respective owners and are acknowledged.

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.

Caution:

Alerts you to situations that may damage the unit.

Warning:

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. Aside from the projection lamp, 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.
- The projection lamp is extremely bright by design. To avoid damage to eyes, do not look into the lens when the lamp is on.
- \succ 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.

Safety Instructions

- Please read this manual completely before installing and operating the projector.
- The projector provides many convenient features and functions. Proper operation may enable you to fully utilize the features and keep it in good condition. Otherwise, it will not only shorten the service life of the unit, but also may cause malfunction, a fire, or other accidents.
- If your projector cannot work properly, please read this manual again, check the operating methods and cable connection, and try the solutions in the part of Troubleshooting. If the problem still exists, contact the dealer or the service center.
- The lamp of the projector is a wearing part. The luminance may decrease after a period of operation and be weaker than that of a new lamp. This is normal. Please strictly follow the steps in turning on the unit and turning off the unit to turn on/off the projector, and the requirements in maintaining and cleaning the projector to service and clean the projector regularly. Or the high temperature residual heat may not radiate, greatly shortening the service life of the projector and lamp, or even damaging them within a short period.

Caution:



Caution:

To reduce the risk of electric shock, do not remove cover (or back), no user serviceable parts inside except lamp replacement. Refer servicing to gualified service personnel.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the user's manual with this unit.

FOR EU USERS

The symbol mark and recycling systems described below apply to EU countries and do not apply to countries in other areas of the world.

Your product is designed and manufactured with high quality materials and components which can be recycled and/or reused.

The symbol mark means that electrical and electronic equipment, batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.

Note:

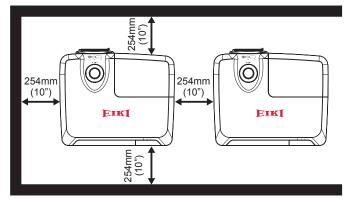
If a chemical symbol is printed beneath the symbol mark, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows: Hg: mercury, Cd: cadmium, Pb: lead In the European Union there are separate collection systems for used electrical and electronic equipment, batteries and accumulators. Please, dispose of them correctly at your local community waste collection/recycling centre. Please help us to conserve the environment we live in!



Safety Precautions

Caution:

- The projector must be grounded.
- Do not expose the projector to raindrops or high humidity to avoid a fire or electric shock.
- This projector produces intense light from the projection lens. Avoid staring directly into the lens, otherwise eye damage could be caused. Be especially careful that children do not stare directly into the beam.
- Place the projector in a proper position. Otherwise it may result in fire hazard.
- Leave an appropriate space from the top, sides, and back of the shell in order to ventilate and cool down the projector. The figures below indicate the minimum distance to be left. It must be satisfied if the projector is placed in sealed environment like a cabinet.



- Do not cover the vent of the projector. Poor radiation may shorten the service life or even cause dangers.
- Remove the AC power plug if the projector is not to be used for a long time.

Caution:

- Do not set the projector in greasy, wet, or smoky conditions such as in a kitchen, to prevent a malfunction or accident. If the projector comes in contact with oil or chemicals, it may become deteriorated.
- Read and keep this manual for future reference.
- The mains plug/appliance coupler is used as disconnect device, the disconnect device shall remain readily operable.

Safety Guide

- All the safety and operating instructions should be read before the product is operated.
- Read all of the instructions given here and retain them for later use. Unplug this projector from AC power supply before cleaning. Do not use liquid or aerosol cleaners.
- Use a damp cloth for cleaning.
- Follow all warnings and instructions marked on the projector.
- For added protection to the projector during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage due to lightning and power line surges.
- Do not expose this unit to rain or use near water... for example, in a wet basement, near a swimming pool, etc...
- Do not use attachments not recommended by the manufacturer as they may cause hazards.
- Do not place this projector on an unstable cart, stand, or table. The projector may fall, causing serious injury to a child or an adult, and serious damage to the projector.



- Use only with a cart or stand recommended by the manufacturer, or sold with the projector. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturers.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation, to ensure reliable operation of the equipment and to protect it from overheating.
- The openings should never be covered with cloth or other materials, and the bottom opening should not be blocked by placing the projector on a bed, sofa, rug, or other similar surface. This projector should never be placed near or over a radiator or heat register.
- This projector should not be placed in a build-in installation such as a book case unless proper ventilation is provided.
- Never push objects of any kind into this projector through cabinet slots as they may touch dangerous
 voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind
 on the projector.
- Do not install the projector near the ventilation duct of air-conditioning equipment.
- This projector should be operated only from the type of power source indicated on the marking label.
- If you are not sure of the type of power supplied, consult your authorized dealer or local power company.
- Do not overload wall outlets and extension cords as this can result in fire or electric shock. Do not allow anything to rest on the power cord. Do not locate this projector where the cord may be damaged by persons walking on it.
- Do not attempt to service this projector yourself as opening or removing the covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- Unplug this projector from wall outlet and refer servicing to qualified service personnel under the following conditions:
 - > When the power cord or plug is damaged or frayed.
 - > If liquid has been spilled into the projector.
 - > If the projector has been exposed to rain or water.
 - If the projector does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the projector to normal operation.
 - > If the projector has been dropped or the cabinet has been damaged.

- > When the projector exhibits a distinct change in performance this indicates a need for service.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or injury to persons.
- Upon completion of any service or repairs to this projector, ask the service technician to perform routine safety checks to determine that the projector is in safe operating condition.

Information for users in the European Union

This is a device to project images onto a screen, etc., and is not intended for use as indoor lighting in a domestic environment. Directive 2009/125/EC.

Note for customers in the US



Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local state or federal laws.

Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local state or federal laws.

Air circulation

Vents in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

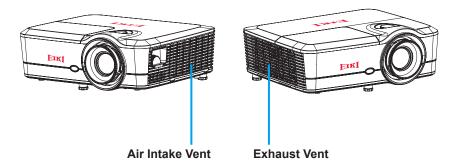
Caution:

- Hot air is exhausted from the exhaust vent. When using or installing the projector, the following precautions should be taken.
- Do not put any flammable objects, or spray can near the projector. Hot air is exhausted from the air vents.
- Keep the exhaust vent at least 1m away from any objects.
- Do not touch a peripheral part of the exhaust vent, especially screws and metallic part. This area will become hot while the projector is being used.
- Do not put anything on the projector. Objects put on the cabinet will not only get damaged but also may cause fire hazard by heat.
- Cooling fans are provided to cool down the projector.
- The fan's running speed is changed according to the temperature inside the projector.



Contains mercury

- For more information on safe handling procedures, the measures to be taken in case of accidental breakage and safe disposal options visit: <u>ec.gc.ca/mercure-mercury/</u>.
- Dispose of or recycle in accordance with applicable laws.



Moving the projector

When moving the projector, take care of the lens and retract the adjustable foot to prevent damage to the lens and cabinet.

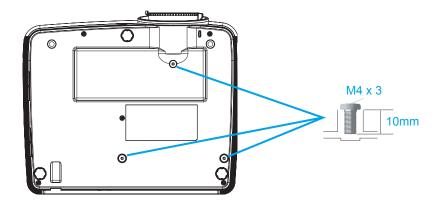
Installing the projector properly

- Please set the projector on nearly-level.
- Be sure to install the projector properly. Improper installation may reduce the lamp lifetime and even cause a fire hazard.



$m \Delta$ Caution in ceiling installation the projector

- Only qualified personal is authorized for ceiling installation.
- We are not responsible for the hurt and damage caused by ceiling bracket that purchased from unauthorized dealer even in warranty period.
- Remove the ceiling bracket immediately while not use.
- While installing, torque screwdriver is suggested, don't use electric or impact-type screwdriver.
- Please read the manual of bracket for details.
- The bracket is subject to change without notice.



Caution in moving or transporting the projector

- Do not drop or bump the projector, otherwise damages or malfunctions may result.
- When carrying the projector, use a suitable carrying case.
- Do not transport the projector by courier or any other transport service in an unsuitable transport case. This may cause damage to the projector. For information about transporting the projector by courier or any other transport service, consult your dealer.
- Do not put the projector in a case before it is cooled enough.

Compliance

FCC Caution

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Use of shielded cable is required to comply with class A limits in Subpart B of Part 15 of FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the instructions. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Model Number : EK-600U/EK-601W

Trade Name : EIKI

Responsible party : EIKI International, Inc.

Address : 30251 Esperanza Rancho Santa Margarita CA 92688-2132

Telephone No. : 800-242-3454 (949-457-0200)

AC Power Cord Requirement

The AC Power Cord supplied with this projector meets the requirement for use in the country you purchased it.

AC Power Cord for the United States and Canada:

AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).

AC Power Cord has a grounding-type AC line plug. This is a safety feature to be sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.

Warning:

A plug with bared flexible cord is hazardous if engaged in a live socket outlet.

The Wires in this mains lead are coloured in accordance with the following code:

- Green-and-yellow Earth
- Blue Neutral
- Brown Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured green or green-and-yellow.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Warning:

This apparatus must be earthed.

Note:

The socket-outlet should be installed near the equipment and easily accessible.

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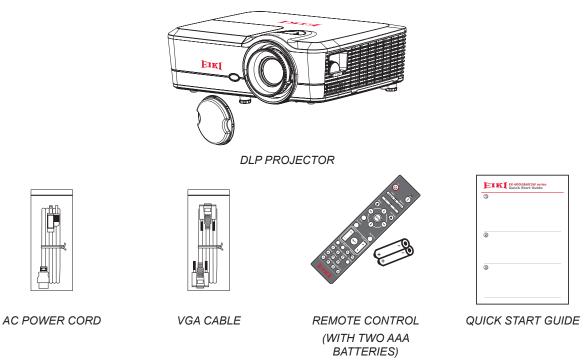
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GETTING STARTED

Packing Checklist

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



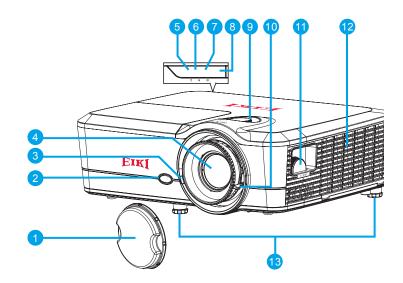
Contact your dealer immediately if any items are missing, appear damaged, or if the unit does not work. It is recommend that you keep the original packing material should you ever need to return the equipment for warranty service.

Note:

• Avoid using the projector in dusty environments.

Views of Projector Parts

Front-right View

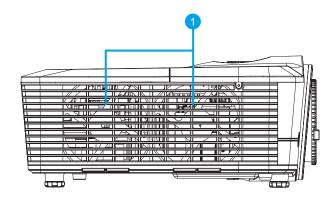


Ітем	LABEL	DESCRIPTION	SEE PAGE
1	Lens Cap	Provides protection for projector lens.	-
2	Front IR Sensor	Receives signals from the IR remote. Keep the signal path to the sensor unobstructed for uninterrupted communication with the projector.	9
3	Focus	Adjust focus.	14
4	Projection Lens	Allows automated zoom.	-
5	Temp LED	Indicate the temperature status.	60
6	Lamp LED	Indicate the lamp status.	60
7	On/Standby LED	Indicate the power status.	60
8	Top IR Sensor	Receives signals from the IR remote. Keep the signal path to the sensor unobstructed for uninterrupted communication with the projector.	9
9	Lens Shift (Vertical)	Adjust the lens vertical offset setting.	16
10	Zoom	Adjust zoom.	14
11	Lens Shift (Horizontal)	Adjust the lens horizontal offset setting.	16
12	Cooling Air Vents (Intake)	Keep these vents unobstructed to prevent the projector from overheating.	-
13	Adjustable Feet	Raise or lower the feet to level the projector.	13

Important:

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

<u>Left View</u>

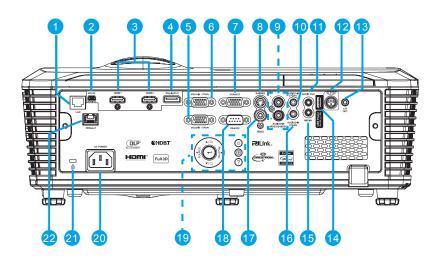


Ітем	LABEL	DESCRIPTION	SEE PAGE
1	Cooling Air Vents	Keep these vents unobstructed to prevent the projector from	-
	(Exhaust)	overheating.	

Important:

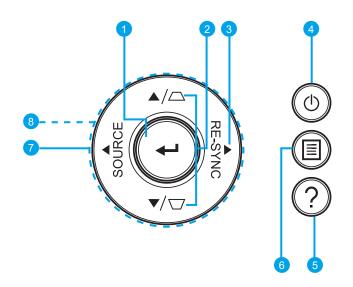
Ventilation openings on the projector allow for good air circulation, which keeps the projector lamp cool. Do not obstruct any of the ventilation openings.

<u>Rear View</u>



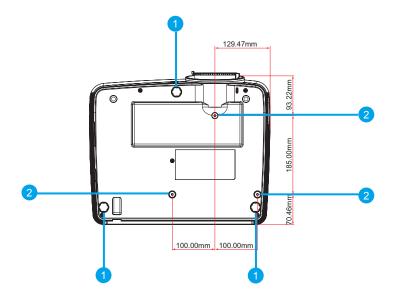
Ітем	LABEL	DESCRIPTION	SEE PAGE
1	RJ45	Connect a LAN cable from Ethernet.	45
2	USB-B Mini	Mouse connection.	-
3	HDMI	Connect the HDMI cable to a HDMI device.	-
4	DisplayPort	Connect the displayport cable to a display.	66-67
5	VGA2-IN/YPbPr	Connect the VGA cable from a computer or component device.	-
6	VGA1-IN/YPbPr	Connect the VGA cable from a computer or component device.	-
7	VGA-OUT	Connect the VGA cable to a display.	-
8	S-Video	Connect the S-video cable to a video device.	-
9	Audio3-IN (Video/S-Video)	Connect the audio cable from an audio-video device.	-
10	Audio1-IN(VGA1)	Connect the audio cable from an audio-video device.	-
11	Audio OUT	Connect the audio cable to an audio device.	-
12	3D Sync OUT	Connect the 3D IR glasses transmitter.	-
	(5V)	(Note: For Specific 3D IR glasses only)	
13	12V OUT	Connect a 12V DC connector.	-
14	USB Power Out (5V1.5A)	Connect a USB dongle.	-
15	MIC-IN	Connect the microphone.	-
16	Audio2-IN(VGA2)	Connect the audio cable from an audio-video device.	-
17	VIDEO	Connect the video cable to a video device.	-
18	RS-232C	Connect RS-232 serial port cable for remote control.	-
19	Built-in Keypad	Control the projector.	5
20	AC Input	Connect to the supplied power adapter.	11
21	Kensington Lock	Use to secure the projector to countertops, tables, etc.	58
22	HDBaseT	Connect a RJ45 Cat5/Cat6 Ethernet cable to input uncompressed high-definition video control signals.	-

<u>Built-in Keypad</u>



Ітем	LABEL	DESCRIPTION	SEE PAGE
1	Enter	Select a highlighted menu item.	17
		Change or accept a value.	
2	Keystone Correction	Adjust the image distortion caused by tilting the projector.	15-16
3	Re-Sync	Automatically synchronize the projector to the input source.	-
4	Power	Turn the projector on or off.	11-12
5	Information	Display the projector information.	-
6	Menu	OSD MENU Setting.	17
7	Source	Select an input signal.	-
8	Arrow keys	Adjust a setting UP/DOWN or LEFT/RIGHT.	17
		Navigate within a menu.	

Bottom View

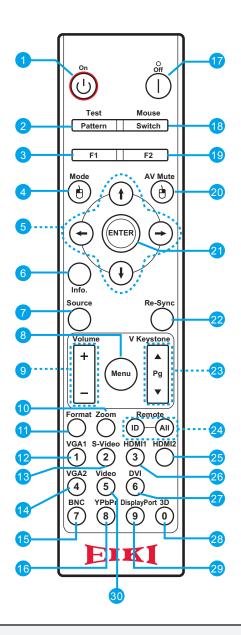


Ітем	LABEL	DESCRIPTION	SEE PAGE
1	Adjustable Feet	Raise or lower the feet to level the projector.	13
2	Ceiling support holes	Contact your dealer for information on mounting the projector on a ceiling.	viii-ix

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 10 mm (0.39 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 (not less than 20 kg) over a period of 60 seconds.

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 owner'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.

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Ітем	LABEL	DESCRIPTION	SEE PAGE
1	Power on	Turn projector ON.	11
2	Pattern	Display a test pattern.	- 1
3	Function button (F1) (Assignable)	Programmable function button.	-
4	Mode/Mouse left click	Display mode menu on/off.Use as mouse left click when mouse is switched on.	-
5	Arrow Keys	Adjust a setting UP/DOWN or LEFT/RIGHT.Navigate within a menu.	17
6	Info.	Display source image information.	-
7	Source	Press "Source" to select an input signal.	-
8	Menu	Display menus.	17
9	Volume - / +	Press to increase or decrease the volume.	- 1
10	Zoom	Adjust zoom to achieve a desired image size.	14
11	Format (Aspect Ratio)	Press to choose the projector format.	-
12	VGA1/1	Select the VGA1 input source.Use as numeric keypad number "1".	-
13	S-Video/2	Select the S-Video input source.Use as numeric keypad number "2".	-
14	VGA2/4	Select the VGA2 input source.Use as numeric keypad number "4".	-
15	BNC/7	 Select the BNC input source. Use as numeric keypad number "7". 	-
16	YPbPr/8	 Select the Component input source. Use as numeric keypad number "8". 	-
17	OFF	Turn projector OFF.	12
18	Mouse	Press to switch the USB mouse on/off.	-
19	Function button (F2) (Assignable)	Programmable function button.	-
20	AV mute/Mouse right click	 Press to turn off/on projector built-in speaker. Use as mouse left click when mouse is switched on. 	-
21	Enter	Select a highlighted menu item.Change or accept a value.	17
22	Re-sync	Automatically synchronize the projector to the input source.	-
23	V keystone/Page Up/Down	 Adjust the vertical keystone. Use to navigate page up or page down. 	14
24	Remote ID/ Remote all	 Press until Power LED is flashing then press 01~99 to set the particular remote code. Press to set remote code to all. 	-
25	HDMI2	Press to choose HDMI source.	-
26	HDMI1/3	 Press to choose HDMI source. Use as numeric keypad number "3". 	-

Ітем	LABEL	DESCRIPTION	SEE PAGE
27	DVI/6	Select the DVI input source.	-
		Use as numeric keypad number "6".	
28	3D/0	Select the 3D input source.	-
		Use as numeric keypad number "0".	
29	DisplayPort/9	Select the Display port input source.	66-67
		Use as numeric keypad number "9".	
30	Video/5	Select the Composite Video input source.	-
		Use as numeric keypad number "5".	

Caution:

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

Note:

Some keys may have no function for models that do not support these features.

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 front of the projector, the remote will function well within a radius of about 7 meters (23 feet) and 15 degrees above and below the projector level or 10 degrees on the left side or right side of the projector. If the projector does not respond to the remote control, move a little closer.

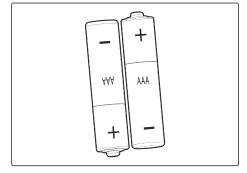
Projector and Remote Control Buttons

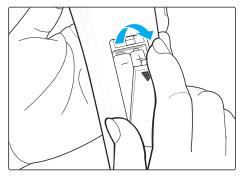
The projector can be operated using the remote control or the buttons on the rear of the projector. All operations can be carried out with the remote control; however, the buttons on the projector are limited in use.

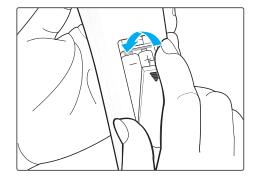
Inserting the Remote Control Batteries

1. Remove the battery compartment cover as shown in the illustration.

2. Insert the batteries with correct polarity (+/-) as shown inside the battery compartment.







Caution:

3. Replace the cover.

- Only use AAA batteries (Alkaline batteries are recommended).
- Dispose of used batteries according to local ordinance regulations.
- Remove the batteries when not using the projector for prolonged periods.

SETUP AND OPERATION

Starting and Shutting down the Projector

Turn the Projector On

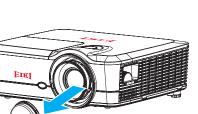
- **1.** Connect the power cord to the projector. Then connect the other end to a wall outlet. The Power button on the built in keypad is illuminated.
- **2.** Remove the lens cap.
- **3.** Turn on the connected devices.
- **4.** Turn on the projector by pressing "**⊍**" on the remote control or on the built-in keypad. The Status LED is flashing Blue with a long blink.

The projector splash screen displays and connected devices are detected.

Note:

The first time the projector is turned on you will be asked to select the preferred language, projection orientation and a few other settings.

- **5.** If more than one input device is connected, press the **Source** key on the remote control to select an input source (VGA1, VGA2, Video, S-Video, HDMI1, HDMI2, DisplayPort, or HDBaseT).
- **6.** The projector detects the source you selected and displays the image.





Turn the Projector Off

1. Press "**也**" on the built-in keypad or press "①" on the remote control to turn off the projector. A warning message will appear on the displayed image.



2. Press "**U**" on the built-in keypad or press "①" on the remote control again to confirm your selection. If you do not press "**U**" or "①" again, the warning message will disappear after 15 seconds.

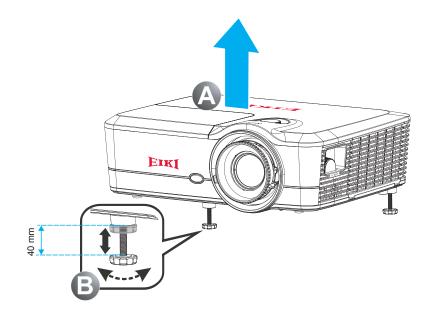
Caution:

- The cooling fans will continue to operate for about 10 seconds for the cooling cycle and the On/ Standby LED will flash Blue. When the On/Standby LED turns solid red the projector has entered standby mode. If you wish to turn the projector back on, you must wait until the cooling cycle has finished and the projector has entered standby mode. When the projector is in standby mode simply press "U" button again to turn on the projector.
- **3.** Disconnect the power lead from the electrical outlet and the projector.

Adjusting the Projector Level

Take note of the following when setting up the projector:

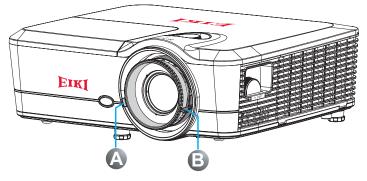
- The projector table or stand should be level and sturdy.
- Position the projector so that it is perpendicular to the screen.
- Ensure the cables are in a safe location. You could trip over them.



- **1.** To raise the level of the projector, lift the projector **A**.
- 2. Locate the adjustable foot you wish to modify on the underside of the projector.
- **3.** Rotate the adjustable foot clockwise to raise the projector or counter-clockwise to lower it. Repeat with the remaining feet as necessary **B**.

Adjusting the Zoom, Focus, and Keystone

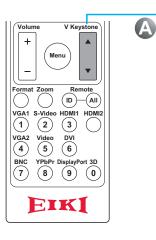
- **1.** Use the **Zoom** lever to resize the projected image and screen size **B**.
- **2.** Use the **Focus** lever to sharpen the projected image **(**).



3. Use the **V Keystone** button to adjust the keystone vertically and make a squarer image (

Note:

Horizontal keystone can only be adjusted manually.





Projection Size

Projection Size v.s Throw Distance

<u>EK-600U</u>

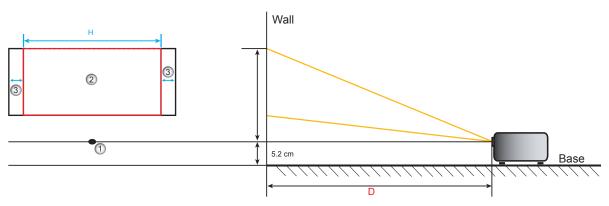
DIAGONAL	SCREEN S	ize W x H		DISTANCE (D)	Offset (Hd)
LENGTH(INCH)	(1	(м)		(м)	
SIZE OF 16:10 SCREEN	WIDTH	Неіднт	WIDE	TELE	Мах
30	0.65	0.40	/	1.4	8.1
40	0.86	0.54	1.0	1.8	10.8
50	1.08	0.67	1.3	2.3	13.5
60	1.29	0.81	1.5	2.8	16.2
70	1.51	0.94	1.8	3.2	18.9
80	1.72	1.08	2.1	3.7	21.5
90	1.94	1.21	2.3	4.1	24.2
100	2.15	1.35	2.6	4.6	26.9
120	2.58	1.62	3.1	5.5	32.3
150	3.23	2.02	3.9	6.9	40.4
180	3.88	2.42	4.6	8.3	48.5
200	4.31	2.69	5.2	9.2	53.9
250	5.38	3.37	6.4	/	67.3
300	6.46	4.04	7.7	/	80.8

<u>EK-601W</u>

DIAGONAL	Screen Size W x H			PROJECTION DISTANCE (D)		т (H D)
LENGTH(INCH) SIZE OF 16:10	(м)		(1	(м)		м)
SIZE OF TO. TO SCREEN	WIDTH	Неіднт	WIDE	TELE	Max	Min
30	0.65	0.40	/	1.4	10.1	2.0
40	0.86	0.54	1.1	1.9	13.5	2.7
50	1.08	0.67	1.4	2.4	16.8	3.4
60	1.29	0.81	1.6	2.9	20.2	4.0
70	1.51	0.94	1.9	3.4	23.6	4.7
80	1.72	1.08	2.2	3.9	26.9	5.4
90	1.94	1.21	2.4	4.3	30.3	6.1
100	2.15	1.35	2.7	4.8	33.7	6.7
120	2.58	1.62	3.2	5.8	40.4	8.1
150	3.23	2.02	4.1	7.2	50.5	10.1
180	3.88	2.42	4.9	8.7	60.6	12.1
200	4.31	2.69	5.4	9.6	67.3	13.5
250	5.38	3.37	6.8	12.0	84.1	16.8
300	6.46	4.04	8.1	/	101.0	20.2

Note:

- Vertical Lens Shift values are always calculated from the Center of Projection Lens. Therefore the distance 5.2 cm (2.05 inch) from the Base to the Center of Projection Lens needs to be added to each Vertical Lens Shift value.
- Zoom ratio is 1.8x.



1. Center of projection lens.

2. Projection image while lens shift at the highest position.

3. Horizontal shift range: 10% H.

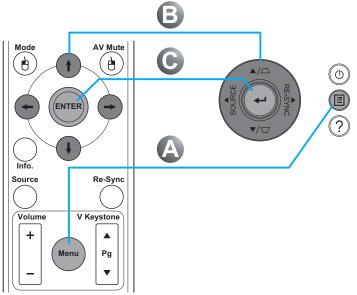
ON-SCREEN DISPLAY (OSD) MENU SETTINGS

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 projector keypad to navigate and make changes to the OSD.



- **1.** To enter the OSD, press the **Menu** button **A**.
- Use the arrow keys (▲▼◀►) to navigate within the menu and adjust a setting up or down ^B.
- **3.** Press the **Enter** button to enter the submenu or confirm the selection/setting **C**.
- **4.** Press the **Menu** button again to return to the previous menu or exit menus if at top level **A**.

	K ⊅ ⊮ N	Ô	î,
	PIC	TURE	
Display Mode			Presentation
Brightness			0 🕨
Contrast			0 🕨
Sharpness			15 🕨
Color			0 🕨
Tint			0 🕨
Advanced			•

Caution:

Depending on the video source, not all items in the OSD are available. 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.

	K X K N	Ô	
	PICT	TURE	
Display Mode		F	Presentation
Brightness			0 🕨
Contrast			0 🕨
Sharpness			15 🕨
Color			0 🕨
Tint			0 🕨
Advanced			•

2. Use the arrow keys ($\blacktriangle \lor$) to select **SETUP** and press the **Enter** button to enter the **SETUP** menu.

	K 7 2 3	Ô	ţţĵ	
	SE	TUP		
Language	-	_	English	▶
Projection				►
Screen Type			16:10	►
Menu Location				►
Pin				►
Projector ID			0	►
Audio Settings				▶

- **3.** Use the arrow keys (▲▼) to select Language and press the Enter button to enter its submenu.
- **4.** Use the arrow keys (▲▼◀►) to select the desired language and press the **Enter** button to enter its confirm.
- **5.** Press the **Menu** button several times to exit the menu.

Language			
English	Nederlands	Čeština	Türkçe
Deutsch	Norsk/Dansk	عربي	한국어
Français	Polski	繁體中文	Svenska
Italiano	Русский	简体中文	ไทย
Español	Suomi	日本語	Indonesian
Português	Magyar		Exit

OSD Menu Overview

Main Menu	SUB MENU / S	ETTINGS				DEFAULT
		Presentation				
		Bright				Presentation (Each mode can adjust and save in each mode).
		Movie				
	Diaplay Mada	sRGB				
	Display Mode	Blackboard				
		DICOM SIM.				
		User				
		3D				
	Brightness	-50 ~ 50				
	Contrast	-50 ~ 50]
	Sharpness	1 ~ 15]
	Color	-50 ~ 50				By source set
	Tint	-50 ~ 50				
		Noise Reduction	0~10]
		BrilliantColor™	1 ~ 10]
		DynamicBlack™	On / Off			Off
			Film			By source set
	Advanced		Graphics			
PICTURE			1.8			
TIOTORE		Camma	2.0			
		Gamma	2.2			
			2.6			
			Blackboard			
			DICOM			
		Color Temperature	Warm			By source set
			Standard			
			Cool			
			Cold	1	1	
			Not HDMI Input:			
			Auto	1		1
			RGB	1	1	1
			Υυν	1	1	1
		Color Space	HDMI Input:	1	1	Auto
			Auto	1		1
			RGB(0~255)	1		1
			RGB(16~235)	1		1
			YUV	1		1

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

Main Menu	SUB MENU / S					DEFAULT
			Red Gain	-50 ~ 50		
			Green Gain	-50 ~ 50		By source set
			Blue Gain	-50 ~ 50		
		Calar Cattings	Red Offset	-50 ~ 50		
		Color Settings	Green Offset	-50 ~ 50		
			Blue Offset	-50 ~ 50		
			Reset	Yes / No		
			Exit			
				Hue		
			Red	Saturation	-50 ~ 50	
			Reu	Gain		
				Exit		
				Hue		
			Green	Saturation	-50 ~ 50	
			Green	Gain		
				Exit		
				Hue		
		Blue	Saturation	-50 ~ 50		
			Gain			
PICTURE	Advanced			Exit		
				Hue		
			Cyan	Saturation	-50 ~ 50	By source set
				Gain		By source se
		Color Matching		Exit		
				Hue		
			Magenta	Saturation	-50 ~ 50	
			Magenta	Gain		
				Exit		
			Hue			
			Yellow	Saturation	-50 ~ 50	
		Tenow	Gain			
			Exit			
		White	Red			
			Green	-50 ~ 50		
		VVIIICE	Blue			
			Exit			
			Deast	Yes		
			Reset	No		
			Exit			

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Main Menu	SUB MENU / SE	TTINGS			DEFAULT
			Auto Image	On	On
			Auto image	Off	Oli
			Phase	0 ~ 31	
		Signal (VGA input)	Frequency	-10 ~ 10	
			Horz Position	-10 ~ 10	
			Vert Position	-10 ~ 10	
	Advanced		Exit		
PICTURE			White Level	0 ~ 31	16
			Black Level	-5 ~ 5	0
		Signal (Video input)		0	
			IRE	7.5	0 (NTSC only)
			Exit		
		Exit			
	Dent	Yes			
	Reset	No			
		4:3			
		16:9 or 16:10			
	Aspect Ratio	LBX			Auto
		Native			
		Auto			
	Zoom	-5 ~ 25			0
	Edge Mask	0~10			By source set
		н	-100 ~ 100		
	Image Shift	V	-100 ~ 100		
		H. Keystone	-30 ~ 30		0
OUTPUT		V. Keystone	-30 ~ 30		
		Auto V. Keystone	On		
			Off		Off
			Top-Left		
Ima	Image Warping	Four Corners	Top-Right		
			Bottom-Left		
			Bottom-Right	1 1	
		Reset	Yes	1 1	
			No		
		Exit	1		

Main Menu	SUB MENU / S	ETTINGS			DEFAULT
			DLP-Link		
		3D Mode	VESA 3D		Off
			Off		
			3D		
		3D→2D	L		3D
			R		
OUTPUT	3D Display		Auto		
0011 01	3D Display		Side by Side		
		3D Enable	Top and Bottom		Auto
			Frame Sequential		
		2D Invort	On		Off
		3D Invert	Off		Oli
		Exit			
		English			
		Deutsch			
		Français			
		Italiano			
		Español			
		Português			
		Svenska			
		Nederlands			
		Norsk/Dansk			
		Polski			
		Русский			
	Language	Suomi			
		Magyar			
OFTUD		Čeština			
SETUP		عربي			
		繁體中文			
		簡体中文			
		日本語			
		한국어			
		ไทย			
		Türkçe			
		Indonesian		1	
		Front			
	Designet	Rear			- ·
	Projection	Front-Ceiling			Front
		Rear-Ceiling			
	Correct T	16:10			40.40
	Screen Type	16:9	1 1		16:10

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Main Menu	SUB MENU / S	ETTINGS				DEFAULT
		Top-Left				
		Top-Right				
	Menu Location	Center				Center
		Bottom-Left				
		Bottom-Right				
		Pin Protect	On			0"
		Pin Protect	Off			Off
			Month			
	Pin	Security Timer	Day			
			Hour			
		Change PIN				1234
		Exit				
	Projector ID	00 ~ 99				00
	-		On			
		Internal Speaker	Off			On
	Audio Settings		On			Off
		Mute	Off			
	Audio Settings		Audio	0~10		5
		Volume	Mic	0~10		
			Default			Default:
		Audio Input	Audio1			VGA1 -> Audio 1 (mini jack)
SETUP			Audio2			
						VGA2 -> Audi 2 (mini jack)
			Audio3			Video, S-Vide
						-> Audio 3 (L/F
		Audio	On			0"
		Out(Standby)	Off			Off
		Exit				
		1	Default			
		Logo	User			Default
			Neutral			-
		Logo Capture				
	Advanced		Off			Off
		Closed Captioning	CC1			
		Captioning	CC2			
		Exit	1			
			On			
		Ethernet	Off	1 1		0.4
		Doore	On	1 1		Off
	HDBaseT	RS232	Off			
	Control		Auto			
		HDBaseT Mode	HDBaseT			Auto
		Exit	İ			+

Main Menu	SUB MENU / SE	TTINGS			DEFAULT
			Network Status	Connect / Disconnect	
			MAC Address	xx : xx : xx : xx : xx : xx	Read-Only
			DHCP	On / Off	Off
		LAN	IP Address	192.168.0.100	192.168.0.100
			Subnet Mask	255.255.255.0	255.255.255.0
			Default Gateway	192.168.0.254	192.168.0.254
			DNS	192.168.0.1	192.168.0.1
			Exit		
			Creation	On	On (north 11704)
			Crestron	Off	On (port: 41794)
	Communication		Extran	On	On (north 2022)
SETUP	Communication		Extron	Off	On (port: 2023)
			Dillink	On	On (north 4250)
			PJLink	Off	On (port: 4352)
		Control Settings	AMX Device	On	
			Discovery	Off	On (port: 9131)
			Telnet	On	
				Off	On (port: 23)
			HTTP	On	
				Off	On (port: 80)
			Exit		
		Reset			
		Exit			
	Exit				
		VGA1			
		VGA2			
		Video			
		S-Video			
	Input Source	HDMI1			
		HDMI2			
		Displayport			
		HDBaseT			
		Exit			
OPTIONS		On	1		
	Source Lock	Off			
		On			Off
	High Altitude	Off			
		On			
	Information Hide	Off			Off (Warning message and Power off message are not hidden).

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Main Menu	SUB MENU / SE	TTINGS				DEFAULT
		On				
	Keypad Lock	Off				Off
	Display Mode	On				
	Lock	Off				
		None				None
	Test Pattern	est Pattern Grid				
		White Pattern				
		Black				
	Deckensund	Red				
	Background Color	Blue				Blue
		Green				
		White				
		Off				
		Light Yellow				
	Wall Color	Light Green				Off
		Light Blue				
		Pink				
		Gray				
			HDMI2	_		Test Pattern
		User1	DP			
			VGA2			
0.0710110			S-Video			
OPTIONS			Test Pattern			
			Zoom			
			Info.	_		
			HDBaseT			
			HDMI2			-
			DP			
	Demote Options		VGA2			-
	Remote Settings	User2	S-Video			Zoom
			Test Pattern	_		-
		Zoom	_	-		
			Info.		_	-
			HDBaseT			
			All			-
		IR Function	Front			All
			Тор			-
			Off			
		Projector Address	00 ~ 99			00
		Exit	1	1		
		On	1	1		
	12V Trigger	Off	1	1		Off
	_	On	1	1		
	Веер	Off	1	1	1	On

MAIN MENU	SUB MENU / SI				DEFAULT
		1	On		0"
		Direct Power On	Off		Off
		Auto Power Off (min)	0-180 (one step: 5 mins)		20
		Sleep Timer	0-990 (one step: 10 mins)		0
	Advanced	(min)	Repeat		Off
			On		
		Quick Resume	Off	(EK601W only)	Off
		Standby Power	Normal		Гар
		Mode	Eco.		Eco.
		Exit			
		Lamp Hours			Read only
		Lomp Domindor	On		On
		Lamp Reminder	Off		
			Bright		
	Lamp Settings	Lamp Mode	Eco		Bright
			Power		
		Power	365W		
			350W		
			330W		280W
OPTIONS			310W		20000
			300W		
			280W		
		Lamp Hours	Yes		
		Reset	No		
		Exit			
		Filter Usage Hours			Read only
		Optional Filter	Yes		No
		Installed	No		
			Off		
			300 hr		
		Filter Reminder	500 hr		500 hr
			800 hr		
			1000 hr		
		Filter Reset	Yes		
			No		
		Exit			
	Information				
	Reset	Yes			
		No			
	Exit				

Picture Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **PICTURE** and press the **Enter** button to enter the **PICTURE** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \blacklozenge \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

	K X K N	¢	
	PIC	TURE	
Display Mode			Presentation
Brightness			0 🕨
Contrast			0 🕨
Sharpness			15 🕨
Color			0 🕨
Tint			o 🕨
Advanced			•
		•	

Ітем	DESCRIPTION
Display Mode	Optimize the projector for displaying images under certain conditions, such as Presentation, Bright, Movie, sRGB, Blackboard, DICOM SIM., user- definable preset, and 3D.
Brightness	Adjust the intensity of the image.
Contrast	Adjust the degree of difference between the lightest and darkest parts of the picture and change the amount of black and white in the image.
Sharpness	Select the edge clarity of the image.
Color	Adjust a video image from black and white to fully saturated color. The color setting applies to video sources only.
Tint	Adjust the red-green color balance in the image of video images. The tint setting applies to video sources only.
Advanced	Configure the advanced image settings. See "Advanced Menu" on page 28.

Advanced Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **PICTURE** and press the **Enter** button to enter the **PICTURE** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Advanced** and press the **Enter** button to enter the **Advanced** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \blacklozenge \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

	Q †‡†
-	FURE anced
Noise Reduction	10 🕨
BrilliantColor™	10 🕨
DynamicBlack™	Off ►
Gamma	Film 🕨
Color Temperature	Standard ►
Color Space	Auto 🕨
	*

Ітем	DESCRIPTION		
Noise Reduction	The motion Adaptive Noise Reduction reduces the amount of visible noise interlaced signals.		
BrilliantColor™	Produce an expanded on-screen color spectrum that delivers enhanced color saturation for bright, true-to-life images		
DynamicBlack™	Enable or disable the dynamic black function. Enable this function raises the contrast ratio dynamically.		
Gamma	Select the appropriate gamma from Film, Graphics, 1.8, 2.0, 2.2, 2.6, Blackboard and DICOM.		
Color Temperature	Change the intensity of the colors. Select a listed relative warmth value.		
Color Space	Select a color space that has been specifically tuned for the input signal. Use only for analog signals and certain digital sources.		
Color Settings	Adjust the gain of the red, green, or blue channel of the image. It will affect the black and white.		
	Adjust the offset of the red, green, or blue channel of the image. It will affect the black and white.		
	Reset RGB gain/offset to return the factory default settings for color adjustments.		
Color Matching	Configure the color matching parameters. See "Color Matching Menu" on page 29.		
Signal (VGA Input)	Configure the signal paramters for VGA input. See "Signal Menu (VGA Input)" on page 30.		
Signal (Video Input)	Configure the signal paramters for Video input. See "Signal Menu (Video Input)" on page 31.		

Color Matching Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys $(\blacktriangle \lor)$ to select **PICTURE** and press the **Enter** button to enter the **PICTURE** menu. Press the arrow keys $(\blacktriangle \lor)$ to select **Advanced** and press the **Enter** button to enter the **Advanced** menu. Press the arrow keys $(\blacktriangle \lor)$ to select **Color Matching** and press the **Enter** button to enter the **Color Matching** menu. Press the arrow keys $(\blacktriangle \lor)$ to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys $(\bigstar \lor)$ to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys $(\bigstar \lor)$ to select or adjust the desired settings and press the **Enter** button to confirm.

Color Matching			
Red	Cyan		
Green	Magenta		
Blue	Yellow		
White	Reset		
Exit			

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

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

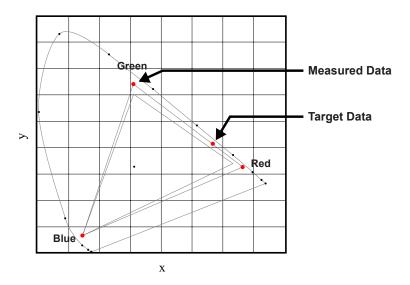
Enable the selected method (Meter or Manual Adjustment)- this will automatically disable the other method. For both methods, if Auto Test Pattern is enabled, the solid colored test pattern will be displayed according to the menu item on which you are positioned.

Meter Adjustment

1. Using a color meter, enter the current x and y co-ordinates of Red, Green, Blue and White for the projector image into the Measured Data menu. This is the reference point for the projector. The default values in the menu are based on the average for all projectors.

2. After measuring the values for all the projectors to be matched, calculate the target values.

3. Enter the target values for x, y and gain for each color into the Target Data menu.



Manual Adjustment

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

Signal Menu (VGA Input)

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **PICTURE** and press the **Enter** button to enter the **PICTURE** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Advanced** and press the **Enter** button to enter the **Advanced** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Signal** and press the **Enter** button to enter the **Signal** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

		¢	î.	
	PICT	TURE		
	Advance	ed: Signal		
Auto In	nage		On	•
Phase			16	•
Frequency			0	•
Horz P	osition		0	•
Vert Po	osition		0	•
			Exit	

Ітем	DESCRIPTION
Auto Image	Force the projector to reacquire and lock to the input signal. This is useful when signal quality is marginal.
Phase	Analog signals only. Adjust pixel phase when the image still shows shimmer or noise after pixel tracking is optimized. Pixel phase can adjust the phase of the pixel-sampling clock relative to the incoming signal.
Frequency	Analog signals only. Steady flickering or several soft vertical stripes or bands across the entire image indicates poor frequency. Proper frequency ensures that the image quality is consistent across the screen, the aspect ratio is maintained, and that the pixel phase can be optimized.
Horz Position	Move the image right or left within the area of available pixels.
Vert Position	Move the image up or down within the area of available pixels.

Signal Menu (Video Input)

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **PICTURE** and press the **Enter** button to enter the **PICTURE** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Advanced** and press the **Enter** button to enter the **Advanced** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Signal** and press the **Enter** button to enter the **Signal** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

	K X K N	Ŕ	Îţĵ	
	PIC	TURE		
	Advance	ed: Signal		
White L	evel		0	►
Black L	evel		0	►
IRE			7.5	►
			Exit	

Ітем	DESCRIPTION		
White Level	Allow user adjust White Level when inputting Video signals.		
Black Level	Allow user adjust Black Level when inputting Video signals.		
IRE	Allow user adjust IRE value when inputting Video signals.		
	Note: IRE is only available with NTSC video format.		
	 Press the ◀ to decrease the amount of color in the image. 		
	 Press the ► to increase the amount of color in the image. 		

Output Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **OUTPUT** and press the **Enter** button to enter the **OUTPUT** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \blacklozenge$) to select or adjust the desired settings and press the **Enter** button to confirm.

		¢	ţţ	
	OUT	PUT		
Aspect Ratio			Auto	•
Zoom			0	•
Edge Mask			0	•
Image Shift				•
Image Warping				•
3D Display				•
			Exit	

Ітем	DESCRIPTION		
Aspect Ratio	Display an image with the detected size, or resize the image by maximizing either the height, width or both, or resize to the maximum size possible while keeping the original aspect ratio.		
Zoom	 Press the ◀ to reduce the size of an image. 		
	 Press the ▶ to magnify an image on the projection screen. 		
Edge Mask	Edge mask the image to remove video encoding noise on the edge of video source.		
Image Shift	Press \blacktriangleright into the next menu as below and then use \blacktriangle or \blacktriangledown or \blacklozenge or \blacktriangleright to select item.		
	Image Shift H: 0 v : 0 • H: Press the ◄ ► to shift the projected image position horizontally.		
	 V: Press the ▲ ▼ to shift the projected image position vertically. 		
Image Warping	Configure the image warping settings. See "Image Warping Menu" on page 33.		
3D Display	Configure the 3D display settings. See "3D Display Menu" on page 34.		

Image Warping Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **OUTPUT** and press the **Enter** button to enter the **OUTPUT** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Image Warping** and press the **Enter** button to enter the **Image Warping** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \lor \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

🔤 💽 🄅 🕀		
OUTPUT		
Image Warpin	ıg	
H Keystone	0	►
V Keystone	0	•
Auto V. Keystone	Off	►
Four Corners		•
Reset		•
	Exit	

Ітем	DESCRIPTION		
H Keystone	Adjust the keystone horizontally and make a squarer image. Horizontal keystone is used to correct a keystoned image shape in which the left and right borders of the image are unequal in length. This is intended for use with horizontally on-axis applications.		
V Keystone	Adjust the keystone vertically and make a squarer image. Vertical keystone is used to correct a keystoned image shape in which the top and bottom are slanted to one of the sides. This is intended when for use with vertically on-axis applications.		
Auto V Keystone	Automatically corrects vertical keystone error.		
Four Corners	 Compensate for image distortion by adjusting one corner at a time. To use this function, do the following: 1. Use "Four Corners" menu to choose one corner and press "Enter" to confirm. 2. Use ▲▼◀▶ to move the angle and press "Enter" to confirm. 		
Reset	Reset Image Warping menu items to their factory defaults.		

<u>3D Display Menu</u>

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **OUTPUT** and press the **Enter** button to enter the **OUTPUT** menu. Press the arrow keys ($\blacktriangle \lor$) to select **3D Display** and press the **Enter** button to enter the **3D Display** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \blacklozenge \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

M		Ŕ	
		TPUT	
	3D	Display	
3D Mode			Off 🕨
3D → 2D			3D 🕨
3D Enable			Auto 🕨
3D Invert			Off 🕨
			Exit

Ітем	DESCRIPTION		
3D Mode	 DLP-Link: Select "DLP-Link" to use optimized settings for DLP Link 3D Glasses. 		
	 VESA 3D: Select "VESA 3D" to use optimized setting for VESA 3D Glasses. 		
	Off: DLP-Link.		
$3D \rightarrow 2D$	• 3D: Display 3D signal.		
	L (Left): Display the left frame of 3D content.		
	R (Right): Display the right frame of 3D content.		
3D Enable	Set 3D format. Supports Mandatory 3D formats and frame sequential 3D@120Hz.		
3D Invert	Invert 3D sync signal for the application of using single projector.		

Setup Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **SETUP** and press the **Enter** button to enter the **SETUP** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \blacklozenge \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

M	K 7 2 N	‡		
	SE	TUP		
Language			English	•
Projection				•
Screen Type			16:10	•
Menu Location	า			•
Pin				•
Projector ID			0	
Audio Settings	3			
		-		

Ітем	DESCRIPTION		
Language	This item allows you to select an available language for the OSD display.		
Projection	Select the projection mode, depending upon how the projector is mounted. Projection R R Exit		
Screen Type	Choose the screen type from 16:10 or 16:9.		
Menu Location	Choose the menu location on the display screen.		
Pin	Configure the pin settings. See "Pin Menu" on page 36.		
Projector ID	ID definition can be set up by menu (range 0-99), and allow user control an individual projector by RS232.		
Audio Settings	Configure the audio settings. See "Audio Settings Menu" on page 37.		
Advanced	Configure the advanced settings. See "Advanced Menu" on page 38.		
HDBaseT Control	Configure the HDBaseT control settings. See "HDBaseT Control Menu" on page 38.		
Communications	Configure the communications settings. See "Communications Menu" on page 39.		

<u>Pin Menu</u>

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **SETUP** and press the **Enter** button to enter the **SETUP** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Pin** and press the **Enter** button to enter the **Pin** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \blacklozenge$) to select or adjust the desired settings and press the **Enter** button to confirm.

Ŵ	K X K N					
		TUI Pin	Þ			
Pin Protect					Off	•
Security Timer						•
Change Pin						►
				E	Exit	

Ітем	DESCRIPTION		
Pin Protect	The Pin (personal identification number) feature allows you to password protect your projector. Once you enable the Pin feature, you must enter the Pin before you can project an image. (Pin Default : 12345)		
Security Timer	Can be select the time (Month/Day/Hour) function to set the number of hours the projector can be used. Once this time has elapsed you will be requested to enter your password again. Security Timer Month 6 Day 15 Hour 12 Exit Exit		
Change Pin	Change the Pin.		

Audio Settings Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys $(\blacktriangle \lor)$ to select **SETUP** and press the **Enter** button to enter the **SETUP** menu. Press the arrow keys $(\blacktriangle \lor)$ to select **Audio Settings** and press the **Enter** button to enter the **Audio Settings** menu. Press the arrow keys $(\blacktriangle \lor)$ to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys $(\blacktriangle \lor)$ to select or adjust the desired settings and press the **Enter** button to confirm.

	‡	Î
SET	JP	
Audio Se	ettings	
Internal Speaker		On 🕨
Mute		•
Volume		•
Audio Input		•
Audio Out(Standby)		Off 🕨
	Ex	cit

Ітем	DESCRIPTION		
Internal Speaker	Choose the "On" or "Off" to turn on or off the internal speaker.		
Mute	Mute or unmute the volume:		
	Choose the "On" to turn mute on.		
	Choose the "Off" to turn mute off.		
	Note: "Mute" function affects both internal and external speaker volume.		
Volume	Configure volume parameters.		
	Audio: Adjust the volume level.		
	Mic: Adjust the microphone volume level.		
Audio Input	The default audio settings are on the back panel of the projector. Use this option to reassign any of the Audio Inputs (1, 2, or 3) to the current image source. Each Audio input can be assigned to more than one video source.		
	 Default: VGA 1 -> Audio 1; VGA 2 -> Audio 2; Video, S-Video -> Audio 3 (L/R). 		
	Audio 1 / 2: Mini jack connection.		
	Audio 3: L/R.		
Audio Out(Standby)	Choose the "On" or "Off" to turn on or off the audio out.		

Advanced Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **SETUP** and press the **Enter** button to enter the **SETUP** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Advanced** and press the **Enter** button to enter the **Advanced** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

SETUP	
Advanced	
Logo	Default 🕨
Logo Capture	•
Closed Captioning	Off ►
	Exit

Ітем	Description		
Logo	Use this function to set the desired startup screen. If changes are made they will take effect the next time the projector is powered on.		
	Default: The default startup screen.		
	 User: Create a customized startup screen using the Logo Capture function. 		
	Neutral: Logo is not displayed on startup screen.		
Logo Capture	Press ► to capture an image of the picture currently displayed on screen.		
Closed Capturing	Closed Captioning is a text version of the program sound or other information displayed on the screen. If the input signal contains closed captions, you can turn on the feature and watch the channels. Press ◀ or ► to select Off, CC1, or CC2.		

HDBaseT Control Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **SETUP** and press the **Enter** button to enter the **SETUP** menu. Press the arrow keys ($\blacktriangle \lor$) to select **HDBaseT Control** and press the **Enter** button to enter the **HDBaseT Control** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \lor \lor \lor \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

¥	¢	
SE	TUP	
HDBase	eT Control	
Ethernet		Off ▶
RS232		Off 🕨
HDBaseT Mode		Auto 🕨
		Exit

Ітем		
Ethernet	Enable or disable the Ethernet feature.	
RS232	Enable or disable the RS232 feature.	
HDBaseT Mode	Set the HDBaseT mode setting:	
	• Auto: The projector will automatically switch to the HDBaseT mode when it detects a signal from the HDBaseT port.	
	HDBaseT: The projector is switched to the HDBaseT mode.	

Communications Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **SETUP** and press the **Enter** button to enter the **SETUP** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Communications** and press the **Enter** button to enter the **Communications** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \blacklozenge \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

SETUP	
Communication	
LAN	•
Control Settings	•
Reset	•
	Exit

Ітем	DESCRIPTION		
LAN	Configure the local area network (LAN) settings.		
	Network Status: Display the network connection status (read-only).		
	MAC Address: Display the network MAC Address value.		
	DHCP: Turn the DHCP ON/OFF.		
	IP Address: Assign Network IP Address.		
	Subnet Mask: Assign Network Subnet Mask.		
	Default Gateway: Assign Network Default Gateway.		
	DNS: Display DNS number.		
Control Settings	 Crestron: Use this function to select the network function (port: 41794). For more information, please visit http://www.crestron.com and www. crestron.com/getroomview. 		
	Extron: Use this function to select the network function (port: 2023).		
	PJLink: Use this function to select the network function (port: 4352).		
	 AMX Device Discovery: Use this function to select the network function (port: 1023). 		
	Telnet: Use this function to select the network function (port: 23).		
	HTTP: Use this function to select the network function (port: 80).		
Reset	Reset the Communication menu items to their factory defaults.		

Options Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **OPTIONS** and press the **Enter** button to enter the **OPTIONS** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \blacklozenge \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

	K X K N	Ŷ	ţţţ	
	OPT	IONS		
Input Source				۲
Source Lock			Off	►
High Altitude			Off	►
Information Hi	de		Off	•
Keypad Lock			Off	►
Display Mode	Lock		Off	•
Test Pattern			None	۲

Ітем	DESCRIPTION
Input Source	Use this option to enable/disable input sources. Press ► to enter the sub menu and select which sources you require. Press "Enter" to finalize the selection. The projector will only search for inputs that are enabled.
Source Lock	On: The projector will only search current input connection.
	 Off: The projector will search for other signals if the current input signal is lost.
High Altitude	Set high altitude mode On/Off. When On, the fan will operate at high speed to ensure sufficient air flow for high altitudes.
Information Hide	On: Choose "On" to hide the info message.
	Off: Choose "Off" to show the "searching" message.
Keypad Lock	When the keypad lock function is "On", the Keypad will be locked however, the projector can be operated by the remote control. By selecting "Off", you will be able to reuse the Keypad.
Display Mode Lock	On: Lock adjusting display mode settings.
	Off: Unlock adjusting display mode settings.
Test Pattern	Display a test pattern. There are Grid, White Pattern and None.
Background Color	Use this feature to display a "Black", "Red", "Blue", "Green" or "White" screen when no signal is available.
Wall Color	Use this function to obtain an optimized screen image according to the wall color. The available options: "Off", "Light Yellow", "Light Green", "Light Blue", "Pink", and "Gray".
Remote Settings	Configure the remote settings. "Remote Settings Menu" on page 41.

Ітем	DESCRIPTION	
12V Trigger	 On: Choose "On" to enable the trigger. Off: Choose "Off" to disable the trigger. 	
	Reserved IR_IN & detect GND	
Веер	Off: No beep sound is audible when a key is pressed or in an error event.	
	On: Beep sound is audible when a key is pressed or in an error event.	
Advanced	Configure the advanced settings. See "Advanced Menu" on page 42.	
Lamp Settings	Configure the lamp settings. See "Lamp Settings Menu" on page 43.	
Optional Filter Settings	Configure the optional filter settings. See "Optional Filter Settings Menu" on page 44.	
Information	Display the projector information for source, resolution, and software version on the screen.	

Remote Settings Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **OPTIONS** and press the **Enter** button to enter the **OPTIONS** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Remote Settings** and press the **Enter** button to enter the **Remote Settings** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \blacklozenge \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

	K X K N	Ô	†↓ĵ
	OPT	IONS	
	Remote	Settings	
User 1			Test Pattern 🕨
User 2			Zoom 🕨
IR Function			All 🕨
Projector Add	ress		0 🕨
			Exit

Ітем	DESCRIPTION				
User 1	The default value is "Test Pattern".				
	 Press ▶ into the next menu and then use ◄ or ▶ to select "HDMI2", "DP", "VGA2", "S-Video", "Test Pattern", "Zoom", or "Info.", "HDBaseT" item. 				
	User 1				
	▲ Test Pattern ▶				

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Ітем	DESCRIPTION
User 2	 The default value is "Zoom". Press ▶ into the next menu and then use ◄ or ▶ to select "HDMI2", "DP", "VGA2", "S-Video", "Test Pattern", "Zoom", or "Info.", "HDBaseT" item. User 2 ◀ Zoom ▶
IR Function	 All: Choose "All", the projector can be operated by the remote control from front or top IR receiver. Front: Choose "Front", the projector can be operated by the remote control from front IR receiver. Top: Choose "Top", the projector can be operated by the remote control from top IR receiver. Off: Choose "Off", the projector can't be operated by the remote control from front or top IR receiver. By selecting "Off", you will be able to use the Keypad keys.
	<i>Note:</i> <i>"Front" and "Top" cannot be selected in standby mode.</i>
Projector Address	Set the projector address. The projector will respond to IR remotes set either at the same address as the projector or to IR remotes set to address 0.

Advanced Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **OPTIONS** and press the **Enter** button to enter the **OPTIONS** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Advanced** and press the **Enter** button to enter the **Advanced** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

OPTIONS	
Advanced	
Direct Power On	Off ▶
Auto Power Off (min)	20 🕨
Sleep Timer (min)	0 🕨
Quick Resume	Off ►
Standby Power Mode	Eco. 🕨
	Exit

Ітем	DESCRIPTION				
Direct Power On	The projector automatically turns on when electrical power is connected.				
Auto Power Off (min)	Automatically turns the projector off after no signals are detected for a preset number of minutes. If an active signal is received before the projector powers down, the image will be displayed.				

Ітем					
Sleep Timer (min)	This item allows the projector to automatically power off after it has been on for a specified amount of time.				
Quick Resume	On: If the projector is accidentally turned off, this feature allows the projector to be instantly powered on again, if selected within a period of 100 seconds.				
	Off: The fan will start cooling the system after 10 seconds when user turns off the projector. Quick Resume is not supported for WUXGA models due to the Power Down Refresh Mode.				
Standby Power Mode	Set the standby power mode.				
	Normal: Choose "Normal" to return to normal standby				
	• Eco.: Choose "Eco." to save power dissipation further < 0.5W.				

Lamp Settings Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \nabla$) to select **OPTIONS** and press the **Enter** button to enter the **OPTIONS** menu. Press the arrow keys ($\blacktriangle \nabla$) to select **Lamp Settings** and press the **Enter** button to enter the **Lamp Settings** menu. Press the arrow keys ($\blacktriangle \nabla$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \nabla \dashv \nabla$) to select or adjust the desired settings and press the **Enter** button to confirm.

	Ŕ	† ↓ĵ	
OPTIC			
Lamp Se	ettings		
Lamp Hours		0	
Lamp Reminder		On ▶	
Lamp Mode		Bright 🕨	
Power		365W 🕨	
Lamp Hours Reset		•	
		Exit	

Ітем						
Lamp Hours	Display the projection time.					
Lamp Reminder	Choose this function to show or to hide the warning message when the changing lamp message is displayed. The message will appear 30 hours before suggested replacement of lamp					
Lamp Mode	Select Bright , Eco , or Power mode. When in Eco mode, the projector will adjust to the lowest fan speed and switch the light source power to the minimum setting.					
Power	Set the value of the light source power (in Watts).					
Lamp Hours Reset	Reset the lamp used hours counter to zero. Do this after changing the lamp.					

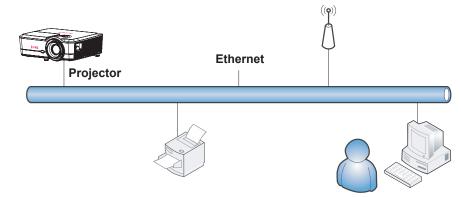
Optional Filter Settings Menu

Press the **Menu** button to open the OSD menu. Press the arrow keys ($\blacktriangle \lor$) to select **OPTIONS** and press the **Enter** button to enter the **OPTIONS** menu. Press the arrow keys ($\blacktriangle \lor$) to select **Optional Filter Settings** and press the **Enter** button to enter the **Optional Filter Settings** menu. Press the arrow keys ($\blacktriangle \lor$) to select the menu option and press the **Enter** button to enter its submenu. Press the arrow keys ($\blacktriangle \lor$) to select or adjust the desired settings and press the **Enter** button to confirm.

	K 3 2 N	Ŷ	î.
	OPT	IONS	
	Optional Fi	Iter Settings	
Filter Usage	Hours		0
Optional Filt	er Installed		Yes 🕨
Filter Reminder			500 hr 🕨
Filter Reset			•
			Exit

Ітем	Description				
Filter Usage Hours	Display the filter time.				
Optional Filter Installed	Yes: Display warning message after 500 hours of use.No: Turn off warning message.				
	Note: <i>"Filter Usage Hours / Filter Reminder / Filter Reset" will only appear when "Optional Filter Installed" is "Yes".</i>				
Filter Reminder	Choose this function to show or hide the warning message when the changing filter message is displayed. (Factory default setting: 500 hours).				
Filter Reset	Reset the dust filter counter after replacing or cleaning the dust filer.				

Control Your Projector Using Web Browser



Wired LAN Terminal functionalities

Remote control and monitoring of a projector from a PC (or Laptop) via wired LAN is also possible. Compatibility with Crestron 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.

Supported External Devices

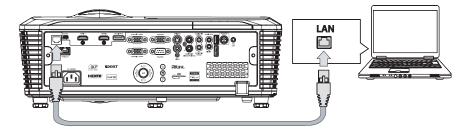
This projector is supported by the specified commands of the Crestron Electronics controller and related software (ex, RoomView[®]).

http://www.crestron.com/

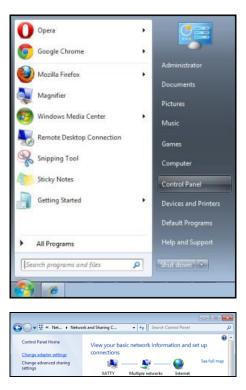
For more detail of information about the diverse types of external devices which can be connected to the Ethernet port and remote/control the projector, as well as the related control commands supporting for each external device, kindly please get contact with the Support-Service team directly.

<u>LAN_RJ45</u>

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



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



- 3. Right-click on Local Area Connection, and select Properties.
 - 😋 💭 🛛 🖉 « Netw... 🕨 Network Connections 🕨 Disable this network device Organize 🔻 Diagnos Disable ۲ Status 610 Local Area Diagnose Connection Bridge Connections Create Shortcut Delete (i) Rename Properties ۲
- 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 ✓ QoS Packet Scheduler ✓ Itemet Protocol Version 6 (TCP/IPv6) ✓ Internet Protocol Version 4 (TCP/IPv4) ✓ Internet Protocol Version 4 (TCP/IPv4) ✓ Internet Protocol Version 4 (TCP/IPv4) ✓ Internet Protocol Version 2 (TCP/IPv4) ✓ Internet Protocol Version 4 (TCP/IPv4)			
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 ? X					
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	у					
• Use the following IP address:						
IP address:	192.168.0.99					
Subnet mask:	255 . 255 . 255 . 0					
Default gateway:	· · ·					
Obtain DNS server address autom	natically					
• Use the following DNS server add	resses:					
Preferred DNS server:						
<u>A</u> lternate DNS server:	• • •					
Validate settings upon exit	Advanced					
	OK Cancel					

- 7. Press the Menu button on the projector.
- 8. Select SETUP \rightarrow Communications \rightarrow LAN.
- **9.** After getting into LAN, input the following:
 - DHCP: Off
 - IP Address: 192.168.0.100
 - Subnet Mask: 255.255.255.0
 - Default Gateway: 0.0.0.0
- **10.** Press the **Enter** / ► button to confirm settings.

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



- **11.** In the Address bar, input the IP address: 192.168.0.100.
- **12.** Press the Enter / ► button.

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

lodel: EIKI			Tool	Info	Contact IT Help
EIKI					
				_	
Power	Voi -	Mute	Vol +		
Sources List					
VGA1	<u> </u>				
				vlenu 🔺	Re-Sync
Video				< Enter	
S-Video			A	/ mute 🔍 🗸	Source
HDMI 1					
Fre	eze Cont	rast Brigh	ntness Sha	arpness	
CRESTRON					Expansion Options
CRESTRON					and a second state of the

EIK					
	Projector Information		Projector Statu	s	
Projector Name	EK-601W	Power Status	Power On.		ľ
Location		Source	Displayport		
		Color mode			
Firmware Version	C02.01	Projector Position	Front-Desktop		
Mac Address	00.50.41.90.33.2D				
Resolution					
Lamp Hours	2	Lamp Mode	Bright		
Assigned to	EIKI Projector	Error Status	0:No Error		
		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>.

RS232 by Telnet Function

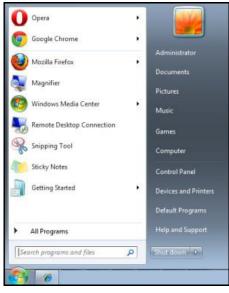
Besides projector connected to RS232 interface with "Hyper-Terminal" communication by dedicated RS232 command control, there is alternative RS232 command control way, so called "RS232 by TELNET" for LAN/RJ45 interface.

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.



 $\textbf{Start} \rightarrow \textbf{All Programs} \rightarrow \textbf{Accessories} \rightarrow \textbf{Command Prompt}$



Input the command format like the below:

telnet ttt.xxx.yyy.zzz 3023 (the Enter button is pressed)

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

If Telnet-Connection ready, and user can have RS232 command input, then press the **Enter** button, the RS232 command will be workable.

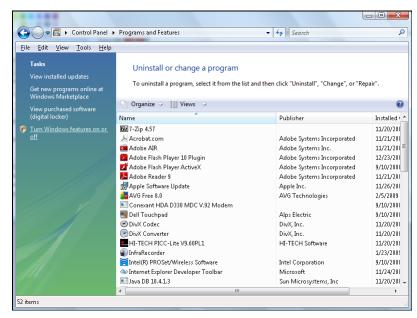
How to have TELNET enabled in Windows VISTA / 7

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

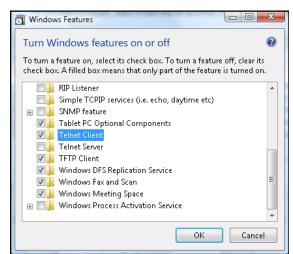
1. Open "Control Panel" in Windows VISTA.



2. Open "Programs".



3. Select "Turn Windows features on or off" to open.



4. Have "Telnet Client" option checked, then click **OK**.

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: 3023

(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 31 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, pressing the **Enter** button will create a "Carriage-Return" and "New-Line" code.)

MAINTENANCE AND SECURITY

Replacing the Projection Lamp

The projection lamp should be replaced when it burns out. It should only be replaced with a certified replacement part, which you can order from your local dealer.

Lamp parts number : SP.74W01GC01

Important:

- The projection lamp used in this product contains a small amount of mercury.
- Do not dispose this product with general household waste.
- Disposal of this product must be carried out in accordance with the regulations of your local authority.

Warning:

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

Caution:

- In rare cases the lamp bulb may burn out during normal operation and cause glass dust or shards to be discharged outward from the rear exhaust vent.
- Do not inhale or do not touch glass dust or shards. Doing so could result in injury.
- Always keep your face away from the exhaust vent so that you do not suffer from the gas and broken shards of the lamp.
- When removing the lamp from a ceiling-mounted projector, make sure that no one is under the projector. Glass fragments could fall if the lamp has been burned out.

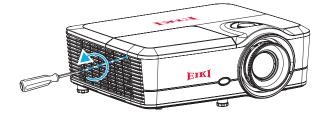
IF A LAMP EXPLODES

- If a lamp explodes, the gas and broken shards may scatter inside the projector and they may come out of the exhaust vent. The gas contains toxic mercury.
- Open windows and doors for ventilation.
- If you inhale the gas or the shards of the broken lamp enter your eyes or mouth, consult the doctor immediately.

Perform the following to replace the lamp:

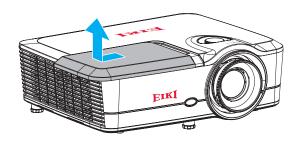
1. Turn the projector off. Allow the projector to cool down into standby mode.

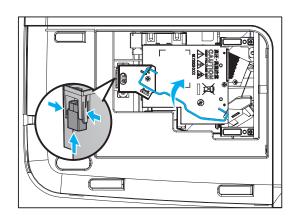
2. Remove the screw on the lamp door.



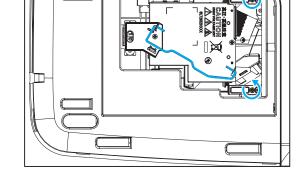
3. Remove the lamp door.

4. Lift up the lamp handle. Press on the both sides then lift up and remove the lamp cord.

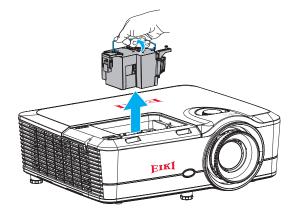




5. Remove the screws on the lamp module.



6. Lift up the lamp handle and remove the lamp module slowly and carefully.



Resetting the Lamp

After replacing the lamp, you should reset the lamp hour counter to zero. Perform the following to reset the lamp hour counter:

1. Press the **Menu** button.



2. Use the arrow keys (▲▼) to select **OPTIONS** and press the **Enter** button to enter the **OPTIONS** menu.

			🔤 💽 🌣	ÎţÎ	
OPTION	IS		OPTIONS		
Input Source		►	Background Color	Blue	•
Source Lock	Off	►	Wall Color		►
High Altitude	Off	►	Power Settings		•
Information Hide	Off	►	12V Trigger	Off	►
Keypad Lock	Off	►	Веер	On	►
Display Mode Lock	Off	►	Advanced		►
Test Pattern	None	►	Lamp Settings		►
•			▼		

3. Use the arrow keys (▲▼) to select Lamp Settings and press the Enter button to enter its submenu.

	Q	îŲĵ
-	IONS	
Lamp	Settings	
Lamp Hours		0
Lamp Reminder		On ▶
Lamp Mode		Bright 🕨
Power		365W 🕨
Lamp Hours Reset		•
		Exit

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- **4.** Use the arrow keys (▲▼) to select **Lamp Hours Reset** and press the **Enter** button to enter its submenu.
- 5. Use the arrow keys (▲▼) to select "Yes" and press the Enter button to reset the lamp used hours counter to zero.

Res	et?		
No	Yes		

Replacing the Filter (Filter is optional.)

The interval of the filter replacement is affected by the dustiness. Check the filters periodically for better performance.

Filter parts number : 51.72025G001

Note:

Dirty filter may reduce the air flowing into the projector and the temperature in the projector may rise as the result. This may activate the protection mechanism or damage the components.

Important:

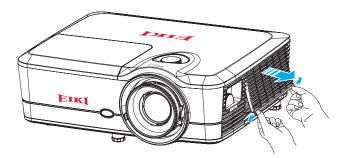
Check, clean, and replace the filter periodically.

Caution:

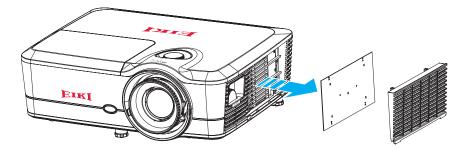
To avoid damage, you need to support the dust filter cover with your both hands when removing it.

Perform the following to replace the filter:

- **1.** Turn the projector off. Allow the projector to cool down into standby mode.
- **2.** Place the tips of your index fingers under the bottom edge of the dust filter cover.
- **3.** Using the index finger and thumb of your both hands, hold the dust filter cover firmly.



4. Slightly move the dust filter cover to the left and to the right direction to release it from the latches on the case. And then remove.



5. Install the new filter by reversing the previous steps.

Note:

Dust filters are only required/supplied in the selected regions with excessive dust.

Cleaning the Projector

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

Warning:

- 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.
- Use only a dampened cloth when cleaning. Do not allow water to enter the ventilation openings on the projector.
- If a little water gets into the projector interior while cleaning, leave unplugged in a well-ventilated room for several hours before using.
- If a lot of water gets into the projector interior when cleaning, have the projector serviced.

Cleaning the Lens

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

1. Apply a little Optical 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.

Caution:

- Do not use abrasive cleaners or solvents.
- To prevent discoloration or fading, avoid getting cleaner on the projector case.

Cleaning the Case

Refer to the following to clean the projector case.

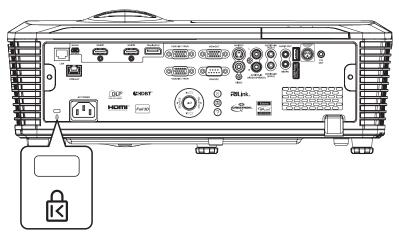
- **1.** Wipe off dust with a clean dampened cloth.
- **2.** Moisten the cloth with warm water and mild detergent (such as used to wash dishes), and then wipe the case.
- **3.** Rinse all detergent from the cloth and wipe the projector again.

Caution:

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

Using the Kensington® Lock

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>.

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

The LED status indicators are located on the top of the projector. Each LED is defined below.

Power LED

LED STATUS		
Red	BLUE	Projector State
Steady Light	Off	Standby state (power cord connected).
Off	Flashing	Power is on (warming) or power is off (cooling).
(0.5 second interval)		Note: If the projector is in cooling state and the power LED turns red then it indicates that the fan has turned off.
Off	Flashing (Flashing (0.25 second interval)	The projector is in Quick Resume mode and can be powered on again within a 100 seconds.
Off	Flashing	Standby state, burnin (warning), or (burnin (cooling).

• Temp LED

LED STATUS		PROJECTOR STATE	
TEMP (RED)	Power (Red)	PROJECTOR STATE	
Flashing	Flashing	Fan has failed and is in error state.	
Steady Light	Flashing	Over temperature. The projector will shut down.	

• Lamp LED

LED STATUS		PROJECTOR STATE	
LAMP (RED)	Power (Red)	PROJECTOR STATE	
Steady Light	Flashing	Lamp has failed and is in error state.	

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 on again in the correct order.

Problem: The image is blurred

- **1.** Use the **Focus** lever to adjust the focus on the projector.
- **2.** Ensure the projector-to-screen distance is within the specified range.
- **3.** 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.** Press the **Keystone V** button on the remote control or built-in keypad or manually adjust horizontal keystone to correct the problem.

Problem: The image is reversed

Check the Rear projection on the Setup menu of the OSD.

Problem: The image is streaked

- 1. Set the Phase and Frequency settings on the Picture > Signal (VGA input) menu of the OSD to the default settings.
- 2. 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 Picture 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 Picture > Advanced menu of the OSD.

Lamp 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 Lamp LED has not turned to red.
- **4.** If you have replaced the lamp recently, try resetting the lamp connections.

- **5.** Replace the lamp module.
- 6. Put the old lamp back in the projector and have the projector serviced.

Problem: The lamp goes off

- **1.** Power surges can cause the lamp to turn off. Re-plug power cord. Press "**U**" on the built-in keypad or the remote control to turn off the projector.
- **2.** Replace the lamp module.
- **3.** Put the old lamp back in the projector and have the projector serviced.

Remote Control Problems

Problem: The projector does not respond to the remote control

- **1.** Direct the remote control towards remote sensors on the projector.
- 2. Ensure the path between remote and sensor is not obstructed.
- **3.** Turn off any fluorescent lights in the room.
- **4.** Make sure that the batteries are installed with the correct polarity.
- **5.** Replace the batteries.
- 6. Turn off other Infrared-enabled devices in the vicinity.
- 7. Have the remote control 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

Ітем		DESCRIPTION		
Display type	0.67" DMD WUXGA/0.65" DMD WXGA			
Resolution	1920X1200(WUXGA)/ 1280X800(WXGA)			
Zoom/focus	Manual focus, automatic zoom			
Zoom ratio	1.8x			
Keystone correction	Vertical and Horizon	tal: +/- 30 degrees		
Projection methods	Front, Rear, Fron-Ce	iling, Rear-Ceiling		
Data compatibility		SXGA, Quad VGA, SXGA+, UXGA, WUXGA(RB), XGA+, WSXGA, WUXGA, PowerBook G4, i Mac		
Video compatibility	480i/p, 576i/p, 720p,	1080i/p		
H-Sync	15.375~91.146 kHz			
V-Sync	24~85Hz, 120Hz for	3D mode		
Safety Certification	cTUVus, FCC, CB, II	EC 6247-5, CE EMC Report, CCC, CECP, VCCI, PSE		
Operation temperature	5° ~ 40°C			
Dimensions (W x H x D)	424x359.5x145 mm	(w/o feet)		
	424x359.5x159 mm	(with feet)		
AC Input	100 VAC – 240 VAC			
Power consumption	355W (ECO), 510W	(Max. Full Mode)		
Lamp	3000 hours at typica	l full power mode (445W)		
	4000 hours at Eco m	node (355W)		
Input Terminals	VGA-IN/YPbPr:	D-sub 15-pin female connector for VGA input and component video input x 2		
	Audio-IN:	Phone jack for audio input (3.5mm) x 3, RCA audio jacks for audio input x 2		
	MIC-IN:	Phone jack for microphone input (3.5mm) x 1		
	Video:	RCA jack for composite video input x 1		
	S-Video:	Mini DIN 4-pin for S-video input x 1		
	HDMI:	HDMI1.4b input x 2		
	DisplayPort:	DisplayPort input x 1		
Output Terminals	VGA-OUT:	D-sub 15-pin female connector for VGA output x 1		
	Ethernet:	RJ45 connector for network management		
	Audio-OUT:	Phone jack for audio output (3.5mm) x 1		
	3D Sync OUT:	Mini din 3-pin VESA 3D sync output connector x 1		
Control Terminals	RS-232C	D-SUB 9-pin connector for HDBaseT firmware update and projector control x 1		
	USB-B Mini	For firmware update x 1		
	USB Power OUT	Type-A USB for power 5V/1.5A output.		
Security	Kensington lock			

Note:

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

Compatible Resolution

Lange and the second	Mode	Deserves	FREQUENCY	
Ітемѕ	NIODE	RESOLUTION	V: [Hz]	H: [KHz]
	VGA	640x480	60	31.47
			72	37.86
			75	37.5
			85	43.27
			56	35.2
			60	37.88
	SVGA	800x600	72	48.08
			75	46.88
			85	53.67
			60	48.36
	XCA	1024×769	70	56.48
	XGA	1024x768	75	60.02
			85	68.67
		1152x864	70	63.8
	SXGA		75	67.5
1) VGA Analog – PC Signal			85	77.1
T) VGA Analog – FC Signal		1280x1024	60	63.98
			72	77.9
			75	79.98
			85	91.15
	Quad VGA	1280x960	60	60
			75	75
	SXGA+	1400x1050	60	65.32
	UXGA	1600x1200	60	75
	WUXGA(RB)	1920x1200	60	74.038
		640x480	60	31.5
			66.6(67)	35
	PowerBook G4	800x600	60	37.88
		1024x768	60	48.36
		1152x870	75	68.68
		1280x960	75	75.2
	i Mac DV(G3)	1024x768	75	60.3

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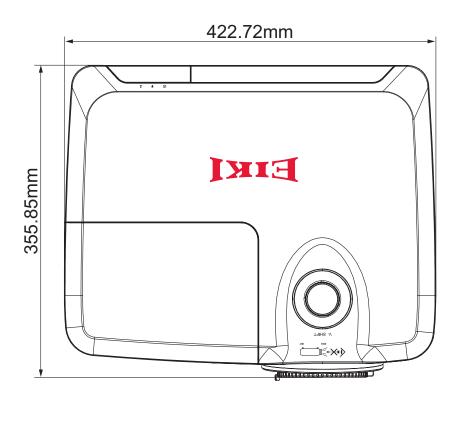
	Mode		FREQUENCY	
Ітемѕ			V: [Hz]	H: [KHz]
	WSVGA	1024x600	60	37.3
		1280x768	60	47.78
			75	60.29
	WXGA		85	68.63
	VVAGA	1280x720	60	44.8
(2) VGA Analog – Extended Wide timing		1280x800	60	49.6
		1366x768	60	47.71
	WXGA+	1440x900	60	55.9
	WSXGA	1680x1050	60	65.3
	WUXGA	1920x1080-RB	60	66.6
		1920x1080-EIA	60	67.5
	480i	- 720x480	59.94(29.97)	27
	480p		59.94	31.47
	576i	- 720x576	50(25)	27
	576p		50	31.25
(2) VCA Appleg Component signal	7200	1280x720	60	45
(3) VGA Analog – Component signal	720p		50	37.5
	1080i	- 1920x1080	60(30)	33.75
	10001		50(25)	33.75
	4000-		60	67.5
	1080p		50	56.25

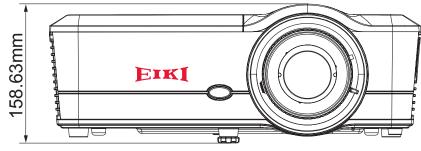
lanua.	Mode	RESOLUTION	FREQUENCY	
Ітемѕ			V: [Hz]	H: [KHz]
		640x480	60	31.47
	VGA		72	37.86
			75	37.5
			85	43.27
	SVGA	800x600	56	35.2
			60	37.88
			72	48.08
(1) HDML & Displayment BC Signal			75	46.88
(1) HDMI & Displayport – PC Signal			85	53.67
	XGA	1024x768	60	48.36
			70	56.48
			75	60.02
			85	68.67
	SXGA		70	63.8
		1152x864	75	67.5
			85	77.1

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		RESOLUTION	FREQUENCY	
Ітемз	Mode		V: [Hz]	H: [KHz]
	SXGA	1280x1024	60	63.98
			72	77.9
			75	79.98
			85	91.15
	Quad VGA	1000.000	60	60
		1280x960	75	75
	SXGA+	1400x1050	60	65.32
	UXGA	1600x1200	60	75
(1) HDMI & Displayport – PC Signal	WUXGA(RB)	1920x1200	60	74.038
		0.40400	60	31.5
		640x480	66.6(67)	35
		800x600	60	37.88
	PowerBook G4	1024x768	60	48.36
		1152x870	75	68.68
		1280x960	75	75.2
	i Mac DV(G3)	1024x768	75	60.3
	WSVGA	1024x600	60	37.3
		1280x768	60	47.78
	WXGA		75	60.29
			85	68.63
		1280x720	60	44.8
(2) UDM Extended Wide timing		1280x800	60	49.6
(2) HDMI – Extended Wide timing		1366x768	60	47.71
	WXGA+	1440x900	60	55.9
	WSXGA	1680x1050	60	65.3
	WUXGA	1920x1080-RB	60	66.6
		1920x1080-EIA	60	67.5
		1920x1200-RB	59.95	74.04
	480i	720x480	59.94(29.97)	27
	480p		59.94	31.47
	576i	- 720x576	50(25)	27
	576p		50	31.25
	720p	1200-720	60	45
(3) HDMI – Video signal	/ 20p	1280x720	50	37.5
	1080i		60(30)	33.75
	10001	1920x1080	50(25)	33.75
			60	67.5
	1080p		50	56.25
			23.97/24	27

Projector Dimensions





REGULATORY **C**OMPLIANCE

FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the 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 A digital apparatus complies with Canadian ICES-003.

Safety Certifications

cTUVus, CB, IEC 62471-5, CE, CCC, CECP, VCCI, PSE



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