

VIEW MAX

DLP Laser Projector

User Manual



- Please read the Manual carefully before using the Product.
- Please keep the Manual properly for further reference.

Safety Instructions

Please read all instructions before using the laser projector (hereinafter referred to as “the Product”) and keep them properly for further reference.

1. Instructions

Make sure to read all safety and operation instructions before using the Product.

2. Notes and warnings

Make sure to follow all notes and warnings in the instructions.

3. Cleaning

Unplug the Product’s power plug from the wall-mounted power socket prior to cleaning. Wipe the Product’s shell with wet cloth. Do not use liquid or smoke cleaner for cleaning.

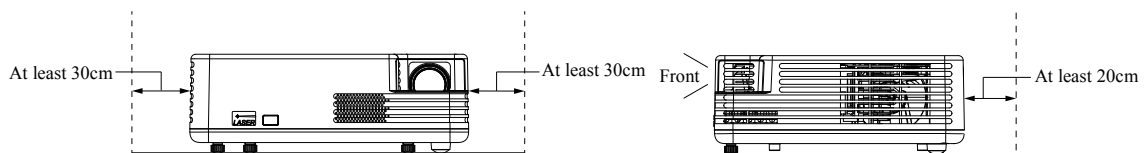
4. Accessories

Do not place the Product on the unstable trolley, frame or desk, for the Product can be severely damaged due to falling. Keep the plastic package (of the Product, accessories and optional parts) inaccessible to children; otherwise, it may lead to death by suffocation. Pay much attention to the infants.

5. Ventilation

The Project’s air intake and exhaust holes should have the min. clearance of 30cm to the walls and enjoy good ventilation in unventilated and narrow space.

Do not block these openings nor put any object near them, but ensure good ventilation around the Product; otherwise, it may lead to heat accumulation, picture quality degradation and damage of the Product



6. Power supply

Make sure the Product’s working voltage is the same with the voltage of local power supply.

7. Maintenance

The Product should be maintained by the professional technicians only.

8. Part replacement

Make sure to use the parts designated by manufacturer for replacement; otherwise, fire hazard, electric shock or other hazards may occur.

9. Condensation

Do not use the Product immediately when it is transferred from cold to hot place, for the Product’s lens and internal key parts can have condensation due to temperature change. For any rapid or sudden temperature change, wait for at least 2h before using the Product to protect it.

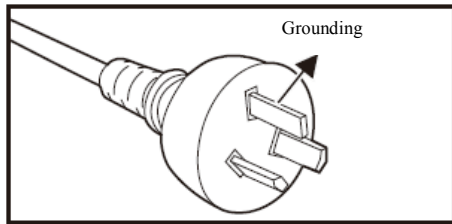
10. Please use the Product within the temperature of 0°C~35°C and humidity of 10%~90%;

Do not use the Product in places with much dust or smoke;

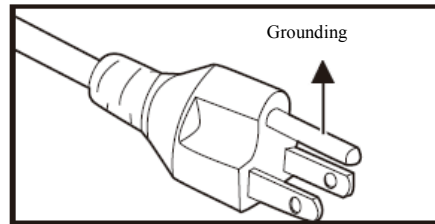
Do not use the Product outdoors or under direct sunlight.

Notes of AC Power Line

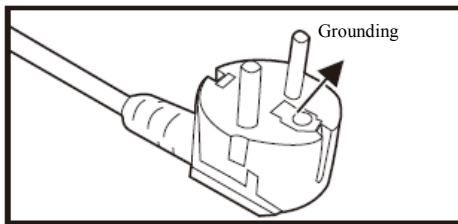
The AC power line must conform to the requirements of state (region) where the Product is used. Please confirm the type of your AC power line plug according to the following diagram and make sure to use the AC power line correctly. Please consult the dealer if the attached AC power line does not match your AC power socket. The Product is attached with grounding type AC power socket. Make sure the plug can be inserted into the power socket. Do not destroy the safety function of this grounding type socket. You are strongly recommended to prepare the grounding type AC power socket for the video source equipment, to avoid signal interference due to voltage fluctuation.



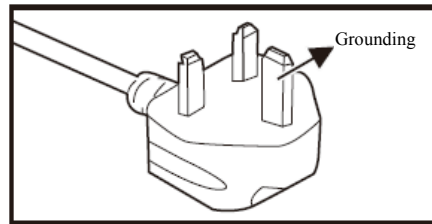
Australia and China Mainland



USA and Canada



Europe Mainland



Britain

Disclaimer

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The Manual's product specification and information, which are for reference only, are subject to changes along with product without a prior notice. The real products should prevail.

The Manual is divided into hardware and software. The Company does not bear liability for the error (if any) in it. All product names mentioned in the Manual are for identification only, and these names can be the registered trademarks of the third-party company, or be owned by the third-party company.

We have tried our best to provide accurate file information for customers, but reserve the right of making changes without a prior notice due to constant updating of products.

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Introduction

Features

Based on high-performance optical engine projection technology, user-friendly design, high reliability and simple operation, the Product has the following features:

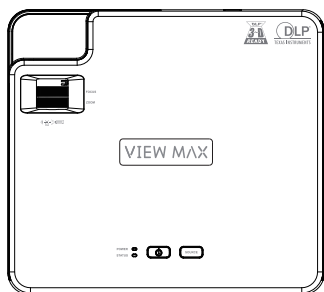
- Color mode offers different options for different projectors
- D-Sub 15-pin terminal can be connected to analog video
- Fitted with HDMI connection, support HDCP
- Correct the distorted and deformed images based on digital trapezoidal distortion correction
- RS-232 interface supports serial control
- Support 3D functions
- Adjust colors as required based on color management
- Be switched to normal and economic mode to reduce the power consumption
- Power consumption is less than 0.5W when power saving mode is entered at standby status

Note

- *The Manual is subject to changes without a prior notice.*
- *It is forbidden to copy, transfer or print the Manual in part or in whole unless otherwise being permitted in writing.*

List of Articles

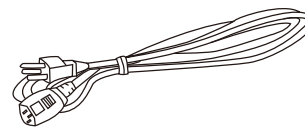
Confirm the following objects while unpacking the projector:



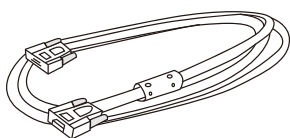
Projector



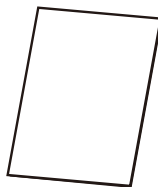
Remote controller



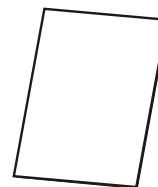
Power line



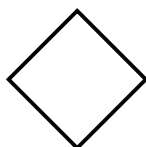
VGA signal line



User's manual



Quick tour



Certificate

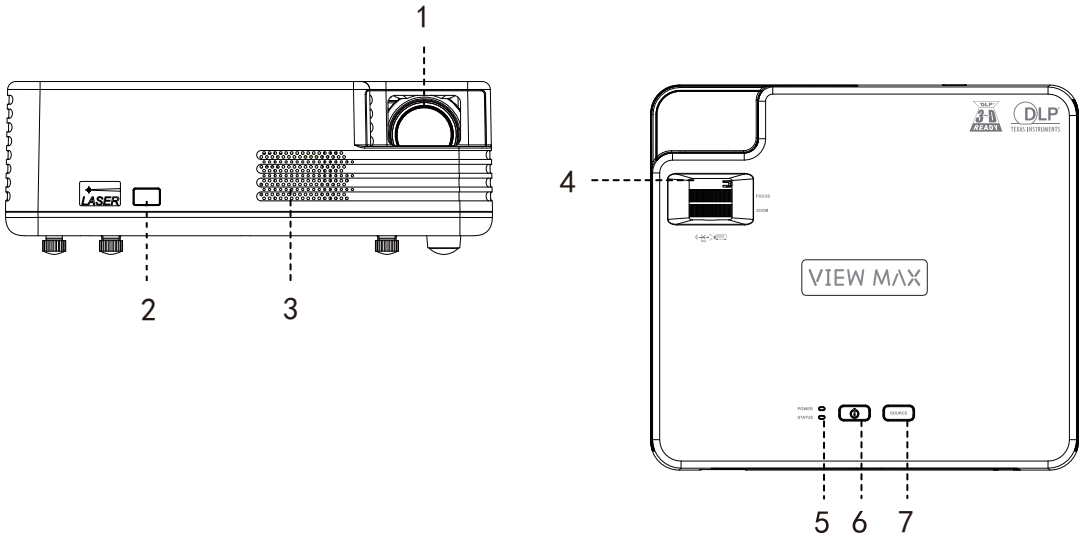
Note

- For any shortage and damage of articles or machine failure, please contact the dealer immediately.
- Please keep the original package box and packing materials properly to protect the Product to the maximum. Please package the Product according to the original status prior to transport.

Product Overview

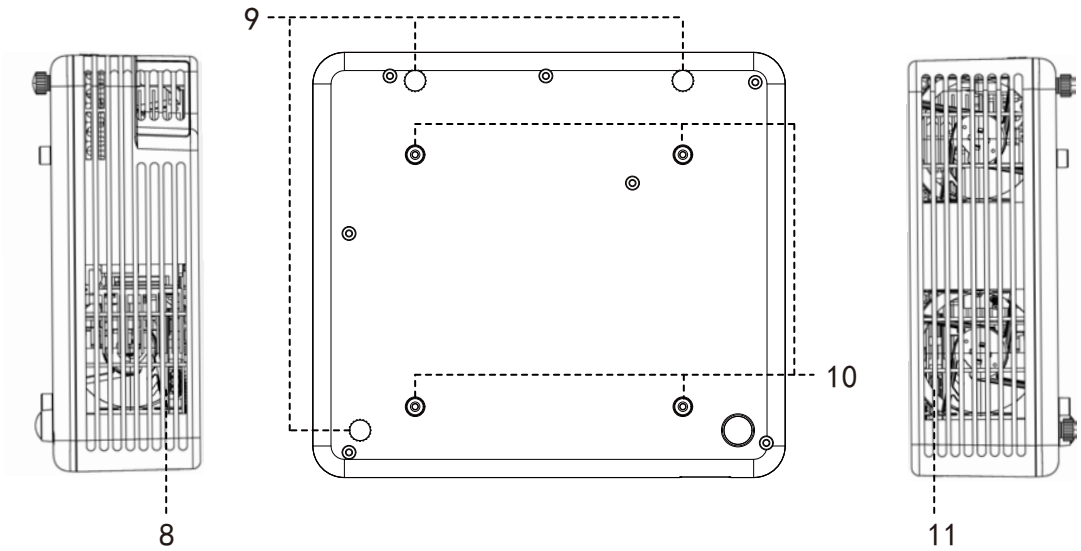
Appearance of projector

Front and top side



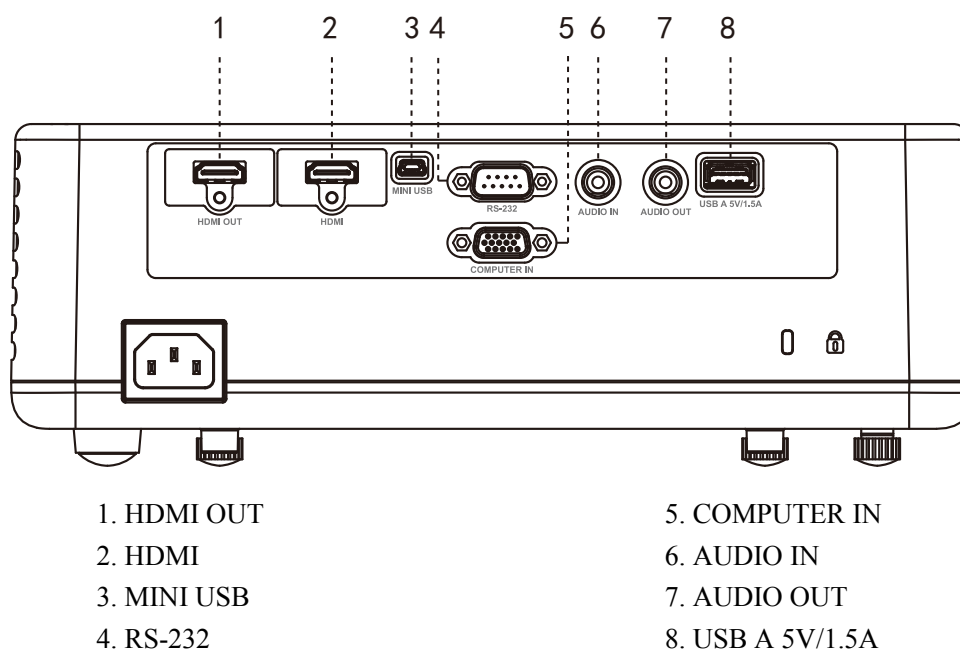
- | | | |
|----------------------|---------------------------|--|
| 1. Lens | 2. Infrared remote sensor | 3. Loudspeaker (Configured in Type FHD only) |
| 4. Focusing lever | 5. Status indicator | 6. Power key |
| 7. Signal source key | | |

Bottom and lateral side



- | | | | |
|---------------------------------|-------------------|-------------------------------|-----------------------------------|
| 8. Ventilation hole (air inlet) | 9. Adjustment pin | 10. Ceiling installation hole | 11. Ventilation hole (air outlet) |
|---------------------------------|-------------------|-------------------------------|-----------------------------------|

Backside



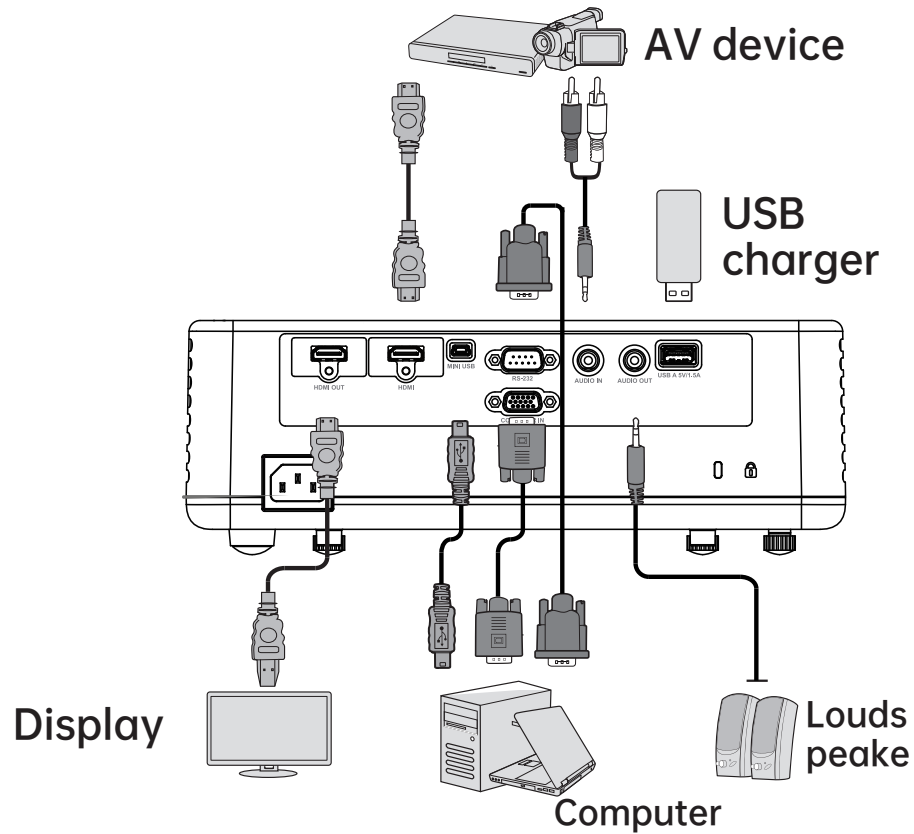
Note

- HDMI OUT applies to Type FHD only.
- The Product can be supported by a lifting frame. The lifting frame is excluded in the product package.
- For more information about hoisting installation of the Product, please consult the dealer

Installation

Connection of projector

Connection of external computer/laptop



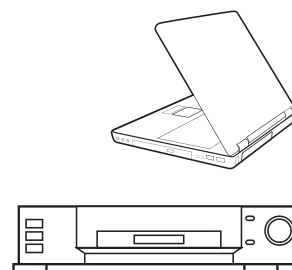
HDMI OUT interface applies to Type FHD only

Steps ①



Steps ②

Signal source



Power on/off Projector

Power on projector

Turn on the projector

1. Finish the wiring of AC power line and signal line of peripheral equipment.
2. Press  button on control panel or “POWER” button on remote controller to power on the Product.
3. Power on the signal source (computer, laptop, DVD, etc.) to connect the external signal sources. The Product will have auto detection of signal sources. Press “Source” button if the Product has connection to multiple signal sources simultaneously.

Power on: The power standby button is normally on in red;

Startup process: Press the “Power” key and standby button will flicker between red and blue;

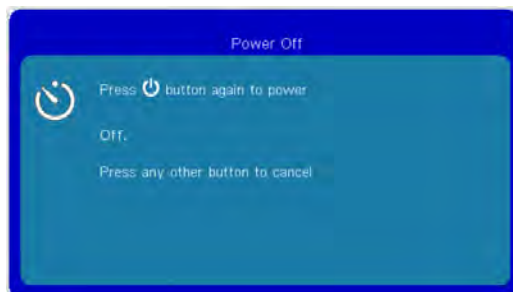
Startup: The power standby indicator is normally on in blue;

Shutdown: When the Product is shut down, the power standby button and indicator will flicker at the same time and enter shutdown status.

Warning

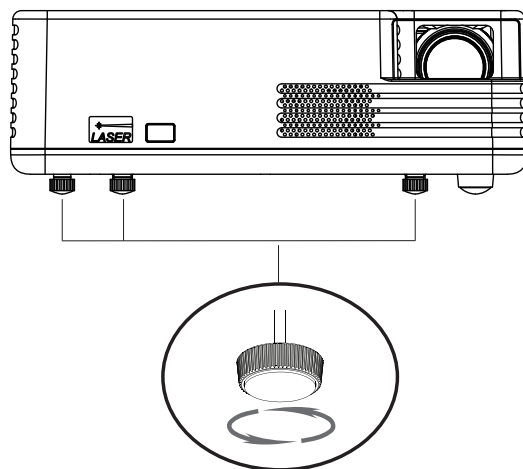
- Do not stare at the lens when laser point is on; otherwise, your eyes will be damaged!
- Do not place any object near the air outlet to avoid fire hazards, for it is very hot.

Power off projector



1. Double click  to start shutdown of computer and then the Product will shut down.
 - The cooling fan will keep rotating until the cooling process is completed.
 - Power LED starts flickering and the Product will enter standby mode.
 - Make sure the Product is cooled and enters standby mode before powering on it again. Once standby mode is entered, press  to restart the Product.
2. Unplug the AC power line from the power socket and the Product respectively.
3. Do not power off the Product directly during shutdown.

Adjustment of Projector Height

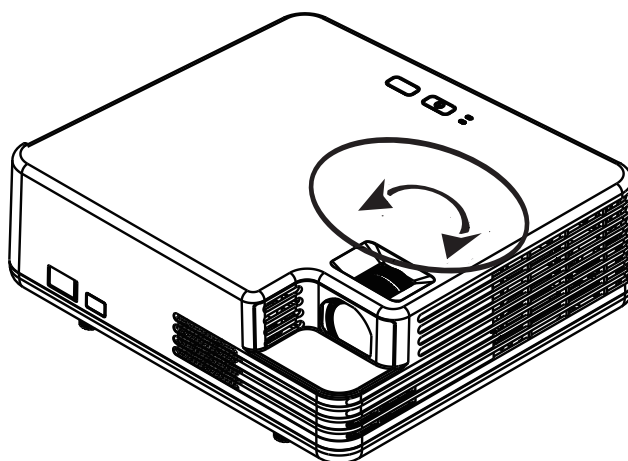


The Product is fitted with three adjusting pins to adjust the image height. Rotate to ascend/descend the pins to ascend or descend the images slightly.

 Note

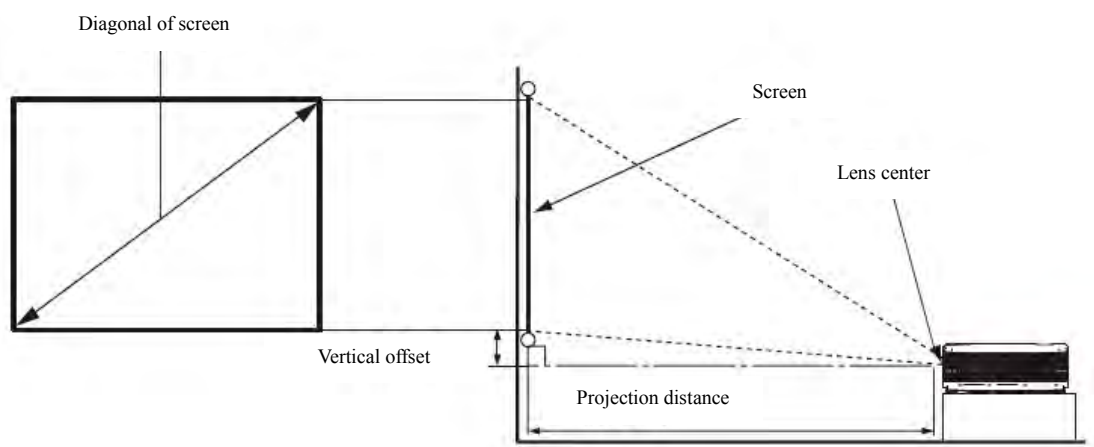
•Make sure the adjusting pins are fully retracted before the Product is put in the packaging box to avoid damage.

Adjustment of Projector Focusing



Pull the focusing adjustment ring until the image becomes clear.

Adjustment of Projector Image Size



XGA

Screen Size (XGA)						Projection Distance				Vertical Offset Distance	
Diagonal		Width		Height		Wide		tele			
inch~	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm
50	127	40.0	102	30.0	76	77	1.96	86	2.20	3.8	9.6
55	140	44.0	112	33.0	84	85	2.16	95	2.42	4.2	10.6
60	152	48.0	122	36.0	91	93	2.36	104	2.64	4.5	11.5
70	178	56.0	142	42.0	107	109	2.77	122	3.09	5.3	13.4
80	203	64.0	163	48.0	122	125	3.17	139	3.54	6.0	15.4
90	229	72.0	183	54.0	137	141	3.57	157	3.99	6.8	17.3
100	254	80.0	203	60.0	152	156	3.97	175	4.44	7.6	19.2
120	305	96.0	244	72.0	183	188	4.78	210	5.34	9.1	23.0
150	381	120.0	305	90.0	229	236	5.98	263	6.69	11.3	28.8

1080P

Screen Size (1080P)						Projection Distance				Vertical Offset Distance	
Diagonal		Width		Height		Wide		tele			
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm
45	114	39.2	100	22.1	56	61	1.54	71	1.80	3.5	9.0
50	127	43.6	111	24.5	62	67	1.70	79	2.00	3.9	10.0
60	152	52.3	133	29.4	75	80	2.04	95	2.41	4.7	12.0
80	203	69.7	177	39.2	100	106	2.70	127	3.23	6.3	16.0
100	254	87.2	221	49.0	125	132	3.36	160	4.05	7.9	20.0
120	305	104.6	266	58.8	149	158	4.02	192	4.87	9.4	24.0
150	381	130.7	332	73.5	187	198	5.02	240	6.10	11.8	30.0
200	508	174.3	443	98.1	249	263	6.68	321	8.15	15.7	40.0
240	610	209.2	531	117.7	299	315	8.00	385	9.79	18.9	48.0

The table above is for reference only.

Control Panel

Control Panel and Remote Controller



Power

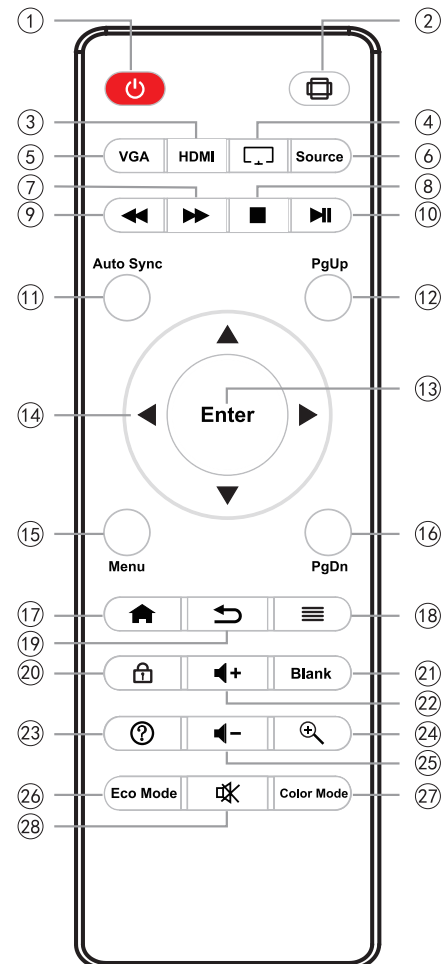
Power on or turn off the Product



Signal source

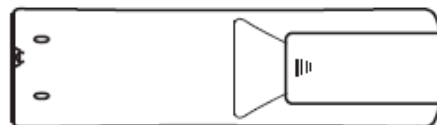
Search signal source

S/N	Item
1	Power switch
2	Switch projection proportion of image
3	Switch to HDMI signal
4	Switch to wireless projection
5	Switch to VGA signal
6	Switch signal source
7	Fast forward
8	Stop
9	Fast backward
10	Pause
11	RESYNC
12	Previous page
13	OK key
14	Up, down, left, right key
15	Menu
16	Next page
17	This key has no function
18	This key has no function
19	Return to the previous menu
20	Lock "up" key of the Product (Power key is not locked), press it again to unlock
21	Shadowing
22	Volume up
23	Display relevant information of the Product
24	Enlarge the image
25	Volume down
26	Enter energy saving mode
27	Select color mode
28	Mute

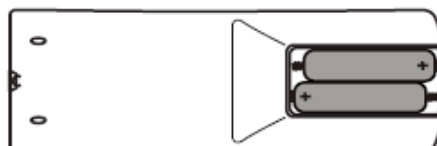


Battery Installation

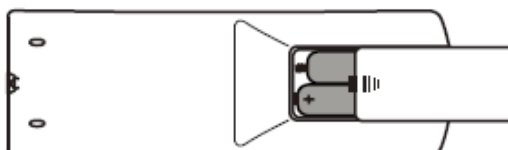
1. Open the battery cover according to the direction in diagram.



2. Install the battery in the chamber according to the diagram.



3. Close the battery cover.



Caution

- Explosion may occur if the replaced batteries have wrong type.
- Please handle the waste batteries according to the instructions.
- Make sure positive and negative poles are correct when installing the batteries.

Note

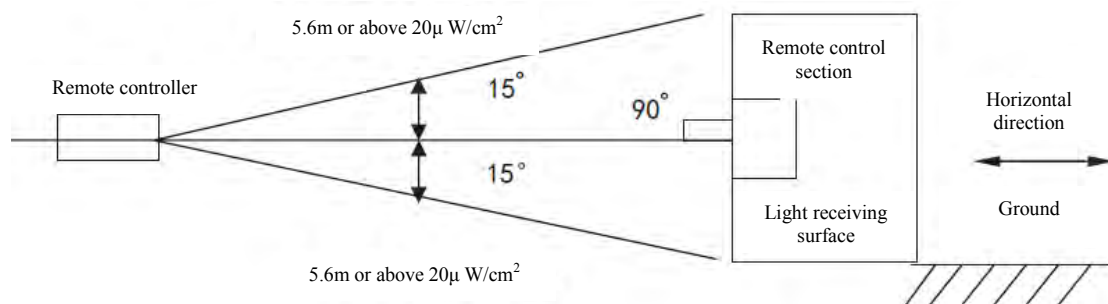
- Keep the batteries inaccessible to children.*
- Take out the batteries of remote controller when it is long idled.*
- Do not recharge the batteries nor throw them into the fire or water.*
- Do not handle the waste batteries along with the household wastes; instead, handle the waste batteries according to local regulations.*
- Keep the batteries in cool, dry and lightproof places and keep them free from fire and water.*
- For any liquid leakage of battery, wipe off the leaked liquid and then replace the batteries with new batteries. If the leaked liquid is attached on your body or clothes, wipe off them immediately with water.*

Operation of Remote Controller

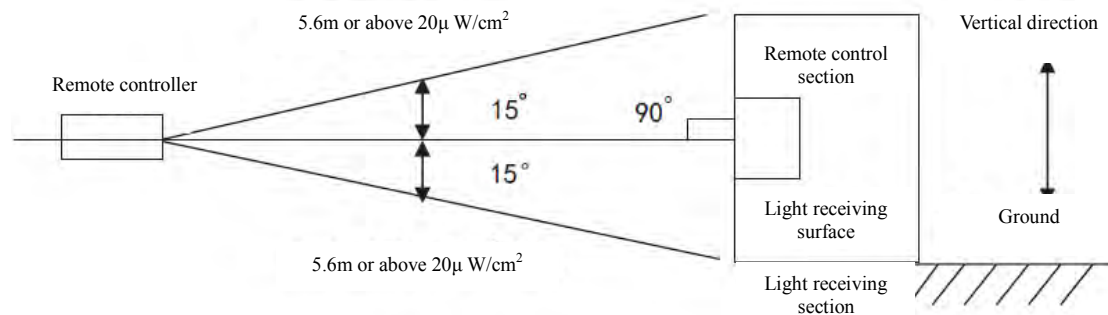
Point the remote controller at the sensor of infrared remote control and press the button.

An IR remote controller sensor is arranged in front of the Product. Hold the remote controller and keep a right angle within 30° between the remote controller and sensor, in order to acquire the normal functions of remote controller. Do not put any obstacle in front of the IR remote control sensor of the Product, to avoid blockage of infrared beam.

Reach distance of benchmark offset angle (left and right) of remote controller (remote controller is fixed)



Reach distance of benchmark offset angle (up and down) of remote controller (remote controller is fixed)



Note

- The remote controller may have failure when remote control sensor is illuminated by strong light sources such as sunlight or fluorescent light.
- Please operate the remote controller at a distance that the remote control sensor can be seen.
- Do not shake or drop the remote controller.
- Keep the remote controller at the cool and dry places.
- Do not splash water on the remote controller nor put wet objectives on it.
- Do not dismantle the remote controller.

Menu Operation

The Product offers multi-language display menu to adjust the image and change the settings.

Steps of operation

1. Press the menu to open OSD menu.
2. When it displays OSD, press ▲/▼ to select any function on the main menu.
3. When items of main menu are selected, press ► to submenu of function setting.
4. Press ▲/▼ to select the required items and then press ◀/▶ to adjust the settings.
5. Press menu key to return to the main menu or return to the previous menu.
6. Press OK or MENU button to quit and save the settings.

Pictures



Color mode

The different pictures have corresponding preset values.

- Standard: Maximize the brightness of projection image. This mode applies to the environment that requires super brightness.
- Computer: Maximize the purity of RGB color, in order to provide the real pictures.
- Demonstration: Applies to demonstration in sunlight environment, in order to match the colors of PC and laptop.
- Picture: Applies to picture browsing.
- Film: Applies to playing of color films and the films of digital camera in the dim (slight light) environment.

Brightness

Increase or decrease of picture brightness between 0 and 100.

Contrast

Set the difference between the bright color area and dark color area between -50 and 50.

Color temperature

Set the color temperature: Normal, cold and warm color.

- Warm color: Make the picture white and yellowish.
- Normal: Keep normal white tone.
- Cold color: Reach the highest color temperature; based on cold color, the image can display more blue and white tones compared with other settings.

Press ▲/▼ to select the required items and then press ◀/▶ to adjust the settings.

Color

Press ▲/▼ to select the required items. The color saturation will decrease along with the decrease of value. If the value is too high, the image color will be too strong to be real.

Tone

Press ◀/▶ to select the required items. The image is closer to red if the value is high, or closer to green if the value is low.

Sharpness

Press ◀/▶ to select the required items. The image will be clearer if the value is higher, or the image will be softer if the value is lower.

Gamma

The relationship between the input signal source and image brightness.

Enter the picture > Press ▲/▼ to select Gamma and then press ◀/▶ to select the settings.

Brilliant Color

Enter the picture > Select Brilliant Color, press ◀/▶ to adjust the values.

Based on the new algorithm for color processing and system-level enhancement, this function can improve the brightness and bring higher reality and fresh color of projected images. Generally, the Product can generate images with real colors when the brightness of moderate tone area of video and natural landscape is increased for over 50%. Please select the required brightness to acquire the image of such quality. Disable this option is it is not required.

Noise reduction

Enter picture > noise reduction menu and press ◀/▶ to adjust the values.

This function can help reduce the electronic noise generated by the media player of image. The image noise will decrease along with the increase of setting value.

Color management

Color management is considered only in the permanently installed devices requiring brightness adjustment, such as conference room, terrace classroom or family cinema. Color management supports slight adjustment of color, in order to represent the colors precisely based on your demands.

If you have purchased the test discs which include the color test patterns and can test the color representation effects of display, TV and projector, project the image in disc onto the screen and then adjust them through the color management menu.

1. Open OSD menu and turn to image > color management menu.

2. Press [OK] button to display the color management page.

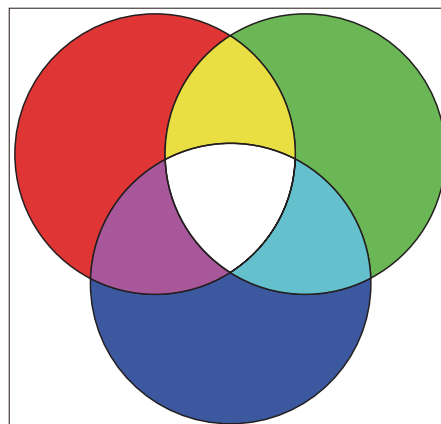
3. Select primary color, press ◀/▶ to select one color from red, green, cyan, blue or carmine and yellow.

4. Press ▼ to select color tone, then press ◀/▶ to select the range. The expansion range includes 2 similar colors which have high proportion. See the right diagram for the relationship between colors.

For example, select red color and set range color as 0, and only the pure red zone of projected image will be selected. The increased range will include the shadow that is close to yellow and carmine.

5. Press ▼ to select the saturation and then press ◀/▶ to adjust the values based on the favorites. The adjustment effects will be soon reflected on the images. For example, select red and set the value as 0 and it will affect the saturation of pure red only. The saturation refers to the volume of corresponding colors in video image. The color saturation will decrease along with the decrease of the value. If the value is 0, this color will be eliminated completely from the image. If the saturation is too high, the color will be too strong to be real.

6. Press ▼ to select gain and then press ◀/▶ to adjust the values based on the favorites. This will affect the contrast of primary color. The adjustment effects will be soon reflected on the images.



Reset color settings

Reset: Recover the current image mode to the factory settings.

Cancel: Recover all settings (except for User 1 in image menu) to the factory settings.

Display



Width-height ratio

Selections to make image match screen:

- **Auto:**

Adjust the image size proportionally, in order to make the horizontal width or vertical width match the Product's natural resolution. It is wished to fully utilize the screen without adjusting the width-height ratio of source image.

- **4:3:**

Adjust the image proportionally, in order to display the image at the middle of screen with the width-height ratio of 4:3; which means, do not change the proportion during display.

- **16:9:**

Adjust the image proportionally, in order to display the image at the middle of screen with the width-height ratio of 16:9; which means, do not change the proportion during display.

- **16:10:**

Adjust the image proportionally, in order to display the image at the middle of screen with the width-height ratio of 16:10; which means, do not change the proportion during display.

- **Inherent:**

Have imaging based on the original image; which means, do not change the proportion during display.

Keystone correction

Manually correct the warp image due to projection angle.

Press ▲ to correct the keystone at the top of image.

Press ▼ to correct the keystone at the bottom of image.

Press ► to correct the keystone at the right side of image.

Press ◀ to correct the keystone at the left side of image.

• *Left and right keystone correction applies to Type FHD only.*

Rim angle adjustment

1. The screen displays the OSD of 4 rim angle adjustment.
2. Select the to-be-adjusted rim angle and the selected area will become red.
3. Two angles can be adjusted.
4. Save the settings and then close OSD menu.

How to reset rim edge adjustment:

- Press “Enter” for 2s to reset. The screen will display “Reset claim: Are you sure to reset? Yes/Cancel”.
- Rim edge adjustment will be reset if “keystone correction” is adjusted.
- Rim edge adjustment *applies to Type FHD only*.

Position

Display position adjustment page. This function applies only if Type PC input signal is selected. Move the projected image through the direction arrow key. When the key is pressed, the values displayed at the bottom half of page will also change, until it reaches the max. or the min. value.

Phase position

Adjust the clock phase position to reduce the image deformation. This function applies only if Type PC input signal is selected.

Horizontal dimensions

Adjust the horizontal width of image. This function applies only if Type PC input signal is selected.

Zoom

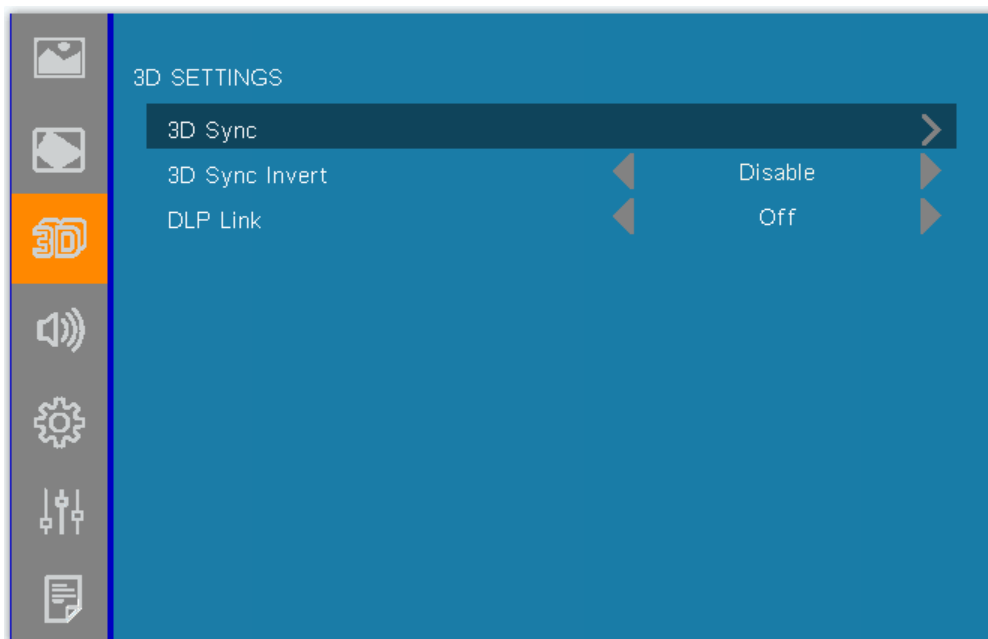
Adjust this item to zoom in or out the picture.

Overscanning

Close 1/2/3/4/5

Overscanning is used for expanding the image by 5% or even 10%, extend the distorted image outside the screen size and show the good-linearity section of middle parts, to avoid distorted images at the screen rim.

3D Settings



3D Image Format:

Auto, off, frame sequential, frame encapsulation, top and bottom, abreast

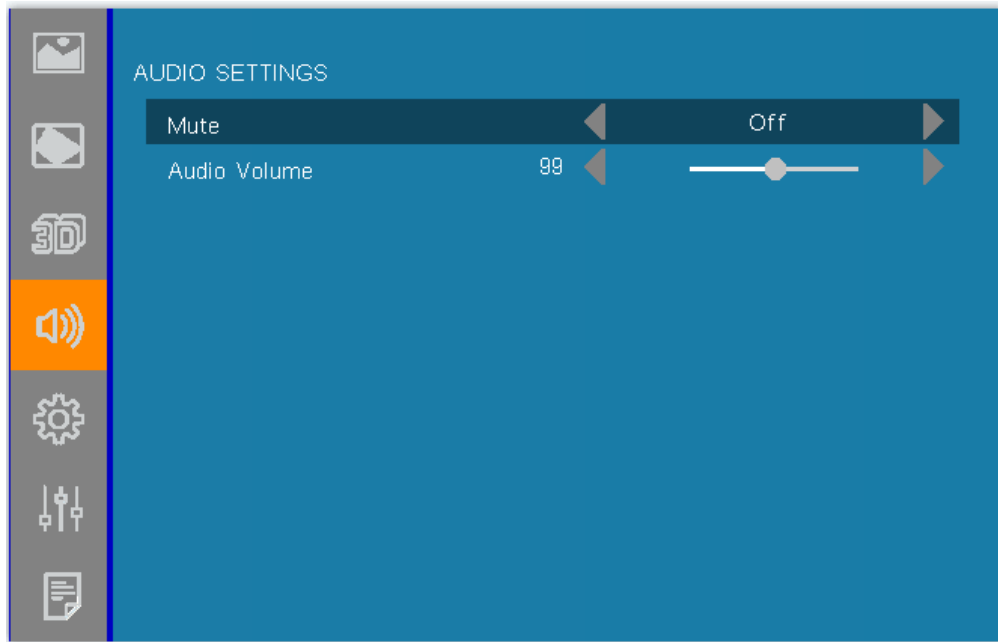
3D inversion

Enabled/disabled

DLP Link:

Enabled/disabled

Audio Settings



Mute

Enabled/disabled

Volume

Press ◀/▶ to adjust volume between 0 and 20.

Basic



Demo timer

The demo timer can demonstrate time on the screen, to better control the time during demonstration. Please use this function as follows:

- Select the timer interval and press ◀/▶ to confirm the last period. The last period can be set as 1 – 5 min and the increase rates are 1min; it can also be set as 5 – 240min, including 5, 10, 15, 20, 60, 120 and 240min.

☞ Once the timer is activated, it will be reactivated at the interval of reset timer.

- Press ▼ to select timer display and then press ◀/▶ to display or hide the screen timer.

Select	Introduction
Permanent display	Show timer of demonstration time on screen
1min/2min/3min	Display timer on the screen at the final 1/2/3 min
No display permanently	Hide timer of demonstration time

- Press ▼ to select timer position and then press ◀/▶ to set the timer position.

Upper right corner → Lower right corner → Upper left corner → Lower left corner

- Press ▼ to select timer counting method and then press ◀/▶ to set the required counting method.

Select	Introduction
Positive counting	Increase from 0 to the set time
Countdown	Decrease from the set time to 0

Press ▼, select “Start counting”, then press ◀/▶ and select “Yes” to enable the demonstration timer. The timer will start counting when OSD menu is quitted.

The timer can be quitted as follows:

1. Enter basic/demonstration timer menu.
2. Press ▼ and select “Start counting”.
3. Press “No”, quit OSD menu and the timer will stop counting.

Image

Enable/disable

- The Product can display the test pattern to help you confirm the color correctness of projected image

Blank timer

Disabled/5min/10min/15min/20min/25min/30min

- Draw the attention of audience to the demonstrator during demonstration. You can press “Blank screen” to hide the screen image. Press any key on the Product or remote controller to recover the image display. When image is hided, the lower right corner of screen will show blank display text. Message

Enable/disable

- Close, display or not display the signal search box

Startup image

Default/black/blue

Direct startup

- Power on and the Product will start automatically

Auto shutdown

No display permanently/5min/10min/15min/20min/25min/30min

- Based on this function, the Product will shut down automatically at the set time if no input signal is detected, to avoid unnecessary waste of service life of light source

Sleep timer

No display permanently/30min/1h/2h/3h/4h/8h/12h

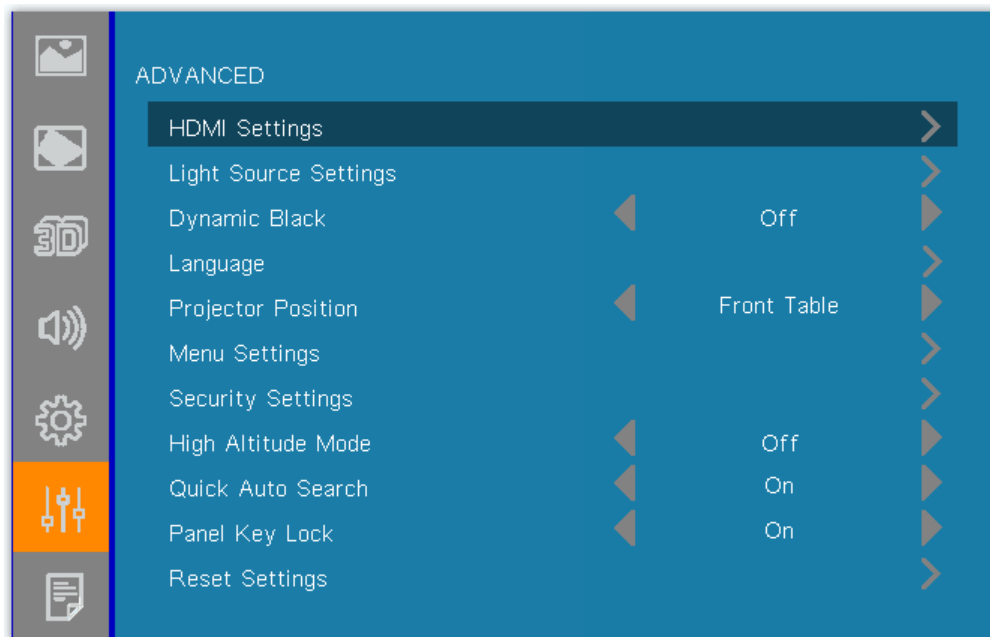
- Based on this function, the Product will shut down automatically at the set time to avoid unnecessary waste of service life of light source

Power saving

Enable/disable

- If no input signal is detected within 5min, the Product will reduce the power consumption to avoid unnecessary waste of service life of light source; you can decide whether shut down the Product when reaching the set time.

Advanced



HDMI setting

HDMI format: RGB/TUV/auto

- RGB: Change color space as RGB.
- YUV: Change color space as YUV.
- Auto: Set the Product to have auto detection of color space settings.

HDMI range: Auto/normal/enhanced

- Enhanced: Change HDMI color range as 0-255.
- Normal: Change HDMI color range as 16-235.
- Auto: Set the Product to have auto detection to HDMI range of input signal.

Light source setting

Light source mode: Normal/power saving/dynamic contrast

- Normal: 100% light source power
- Power saving: 80% light source power
- Dynamic contrast: 20%/40%/60%/80%/100% of light source power, be selected by user.

Light source hours: Display the running period (hour) of light source.

Extreme black

Enable/disable

- When this function is enabled, the image brightness will be disabled automatically when output image is all black

Language

Select the corresponding languages and click “OK” to confirm



Projector Position

Front projection on desk/back projection on desk/hoisting back projection/hoisting front projection

- Front projection on desk: For this position, the Product is placed right in front of screen. This is the most common installation method of the Product. The installation position can be arranged quickly and it has high mobility.
- Back projection on desk: For this position, the Product is placed at the back of screen. Please be noticed, a specific back projection screen is required at this installation position.
- Hoisting back projection: For this position, the Product is reversely mounted on the ceiling at the back of screen. Please be noticed, a specific rear projection screen and ceiling suspended mounting kit of projector are required.
- Hoisting front projection: For this position, the Product is reversely mounted on the ceiling at the front of screen. Please purchase the ceiling suspended installation kit of the Product and install the Product on the ceiling.

Menu position

Menu display time: 5s/10s/15s/20s/25s/30s

Menu position: Middle/lower left corner/lower right corner/upper left corner/upper right corner

- The menu display time and position can be customized

Safety setting

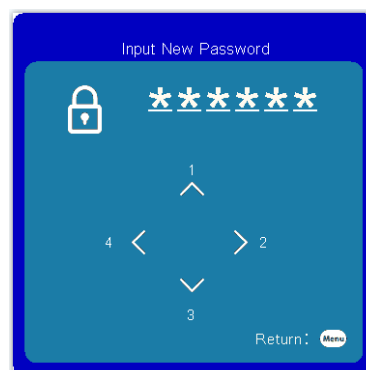
Change password: Change the password

Power lock: Set the power lock code

Clear password: Cancel the current password

The 4 arrows in the right diagram represent 4 figures (1, 2, 3, 4) respectively. Press the arrow key to input 6-digit password as required

Once the password is set, the user must input correct password to start the Product; otherwise, the Product cannot be started.



High altitude mode

Enable/disable

- The Product will have high noise when being used under high altitude mode, for it is required to speed up the fans to improve the overall cooling and performance of system.

It is suggested to use the high altitude mode at the altitude between 1,500 and 3,000m and temperature between 5°C and 25°C.

Do not enable the high altitude mode when altitude is between 0 and 1,500m and temperature is between 5°C and 35°C; otherwise, the Product will be overheated.

Fast and auto searching

Enable/disable

- Make sure the fast and quick searching function is enabled in the system menu, in order to have automatic search of different signals.

Lock image button

Enable/disable

- Once the Product's control key is locked, the Product's settings can be protected against accidental modification (by children, for example); when panel key lock is enabled, no button of the Product can be used, except for the power button.

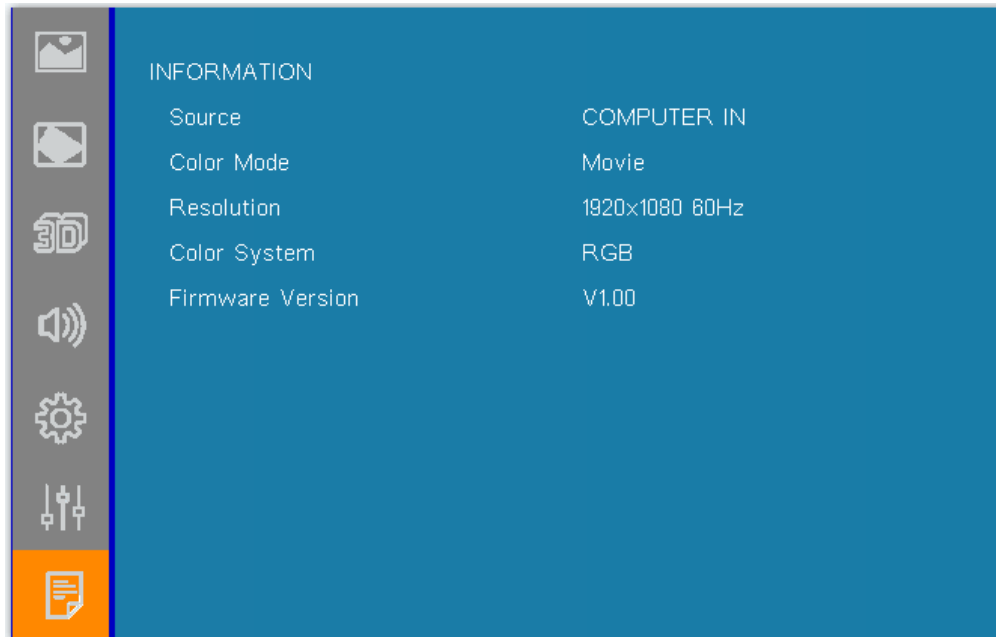
Reset

Select whether reset

- Recover all settings to factory settings.

The following settings will be reserved: Keystone correction/language/projector position/high altitude mode/safety setting/remote controller code

Information



Signal source

Display the current signal source

Color mode

Display the modes selected in color mode menu

Resolution

Display the original source resolution of input signals

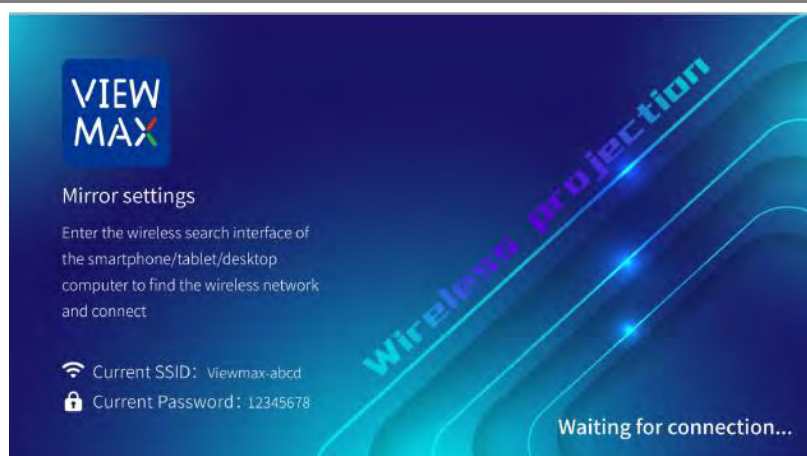
Color system

Display the input system: RGB or YUV

Hardware version

Display the hardware version

Wireless Projection



Search the current wireless network and enter password; finish wireless projection by referring to the equipment

Main chip	RK3036	Dual-core A7 up to 1.0ghz
	Flash	128M
	DDR	128M
Supported system	Androi	Android 4.4 and above
	IOS	IOS8 and above
	Windo ws	Windows 8.1 and above
	MAC	MAC 10.9 and above
Operating system	OS	Linux
	Language	English
		Support 2.4G 5G
Transmission protocol	Miracast/DLNA/Airplay Mirroring	
Media parameter	Video resolution	480P/720P/1080P
	Video decoder	AVI, H.265, VC-1, MPEG-2, MPEG-4, DIVD/DIVX, Real8/9/10, RM,
	Video format	AVI,H.264,VC-1,MPEG-2,MPEG-
	Audio format	MP1, MP2, MP3, WMA ,. OGG, AAC ,. M4A, FLAC, APE, AC
	Image format	JPG/BMP/PNG/GIF and so on
Interface	Micro USB	Micro USB *1
	HDMI	1*Male HDMI 1.4a

Operation Guide

Method 1: Projection via hot spot of projector

1. Power on the Product, enter the wireless projection interface and the default interface is as shown below. Current SSID: The default hot spot name of the Product. Current password: The default WiFi password.
2. When devices, such as mobile phone, tablet PC and computer, are connected to SSID, it will jump to the interface as shown in diagram below; SSID is the equipment name of the Product;

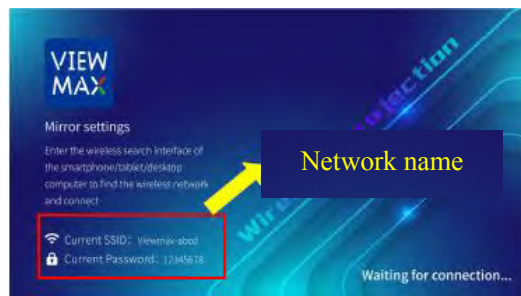


Fig. 1



Fig. 2

Device connection method:

Android mobile phone:

Step 1

Enter the setting menu of mobile phone, find wireless network option and find “Current SSID” as shown in Fig. 1, enter password and connect it.

Step 2

Enter the setting menu of mobile phone – Bluetooth and device connection – Set connection preference – Projector screen option.

Step 3

Search the device name as shown in Fig 2 and click “Connect” and wait for completion of projection.



Note: The projection screen name and position in menu setting can be different depending on the brands of Android mobile phones; please consult the dealers of mobile phones for details. Besides, the Miracast connection of Huawei mobile phone also supports mobile phone and computer mode, as well as DLNA connection method. Android 4.0 and above are supported.

Operation Guide

iPhone:

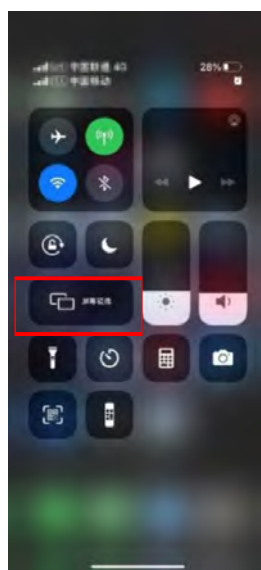
Step 1

Enter the setting menu of mobile phone and find the network name as shown in Fig. 1, enter the password and connect, as shown in diagram below:



Step 2

Find mirror image option in the drop-down menu, click screen mirror image and find the device name in the pop-up menu.



Step 3

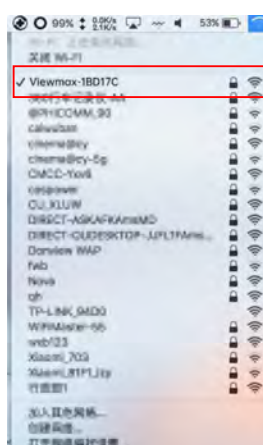
The device names shown in the diagram below will be searched automatically in the pop-up dialogue box, click them to connect.



Apple computer

Step 1

Connect computer WiFi to the SSID as shown in Fig. 2, enter password and connect



Step 2

Open the preferential setting of system and click screen option



Step 3

Open AirPlay option in the screen option, find the SSID in drop-down menu as shown in Fig. 2 below



Note: Apple computer supports 10.9 and higher version

Operation Guide

Windows computer:

Step 1

Find the network name as shown in Fig.1, enter password and click "Connect" as shown in diagram below



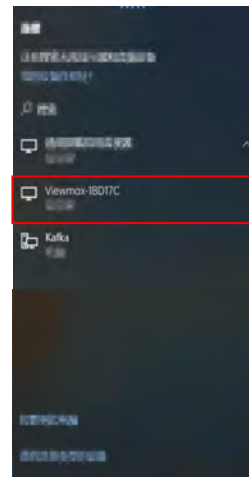
Step 2

Press shortcut key Win + P to enter the projection interface, as shown in diagram below, select connection of wireless display.



Step 3

Find the device name shown in Fig. 2 in the pop-up connection dialogue box, click "Connect", as shown in diagram below:



Note:

Window8.0 or higher version is supported. The computer supports copy and expanded display when it is connected in this mode.

Method 2: Connect the Product to Internet for projection

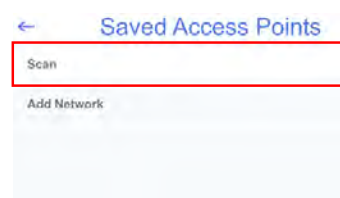
Step 1: Connect the computer to the hot spot of the Product.



Step 2: Enter the default IP address: 192.168.49.1 in the browser to enter the backstage management page of the Product.

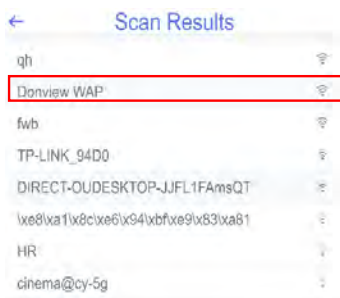


Step 3: Find Wifi AP option, enter it and then click Scan



Operation Guide

Step 4: Find the name of target wireless network, double click to enter the next option, as shown in the diagram



Step 5: Based on the step above, enter the interface as shown in diagram below, enter the password in the Password option and click Password



Step 6: The Product displays the interface as shown in diagram below. Implement projection of device, please refer to Method 1 for the details.



The setting in the backstage management page of the Product is the same with two steps above; click Settings



1. Customize name, click Submit (make sure to restart to take effects)

Name Set:(Dongle must be reboot to take effect)

Son12

Submit

2. Customize overscanning, click Submit (do not alter) and each pixel on the screen corresponds to the pixel of displayed image (strictly speaking, it corresponds to the output points of play device).

Overscan:

100

Submit

3. Customize HDMI output resolution and click Submit

Hdmi Out:

1080P 720P 480P

Submit

4. Select WIFI frequency band of software, 5G is not supported unless it has 5G network, and then click Submit (make sure to restart to take effects)

Softap Frequency:(Dongle will be reboot)

2.4G 5G

Submit

5. Customize password and click Submit

Password:(Dongle will be reboot)

12345678

Submit

6. Select IOS version (iPhone/Samsung) and click Submit

For IOS support Version:(Dongle will be reboot)

Airplay Screen Mirroring

Submit

7. Select version upgrade, click Upgrade and restart

Upgrade :(Dongle will be reboot)

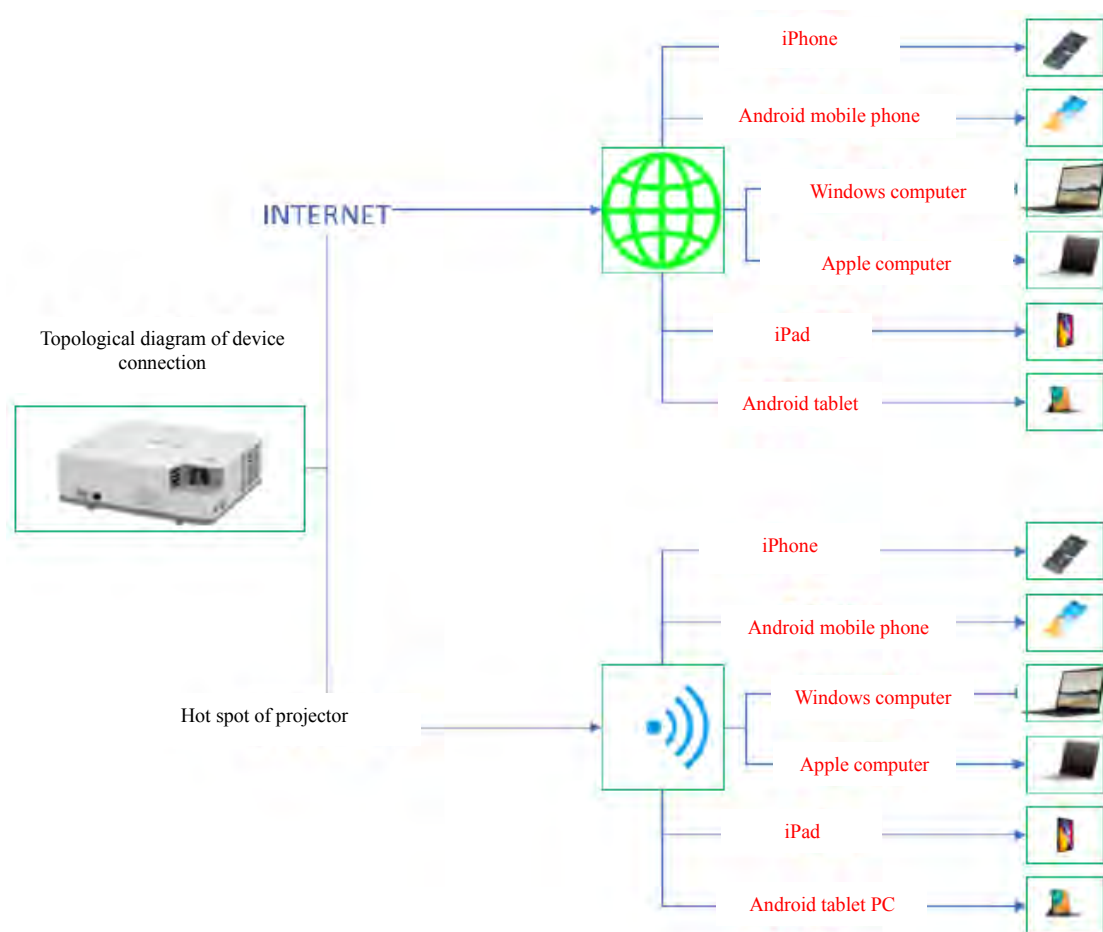
Upgrade

8. Recover factory settings and click Restore to restart

Restore Factory :(Dongle will be reboot)

Restore

Operation Guide



1. Support the interaction of multiple systems, platforms (Android, Ios and Windows) and multiple screens;
2. Support HD wireless audio/video transmission and HDMI 1.4 HD output;
3. Support wireless connection of WiFi 802.11 b/g/n/ac, dual-frequency transmission of 2.4G and 5G;
4. Support Miracast, IOS7 or higher version, Android 4.0 or higher version, Window 8.1 or higher version;
5. Supported transmission protocol: Miracast/DLNA/Airplay Mirroring
6. Reboot the device and reconnect to avoid the crash or unstable connection of wireless transmission due to network environment and compatibility of hardware device.

Maintenance

The Product should be maintained properly. Keep the lens clean; otherwise, the dust or spots will be projected on the screen and reduce the image quality. Please contact the dealer or professional technicians before replacing any part. Make sure to power off the Product and unplug the power line prior to cleaning of any part of the Product.

 Warning

- *Do not open any cover of the Product to avoid major injury due to dangerous voltage in the Product. Do not maintain the Product without permission, but entrust the professional technicians for maintenance.*

Lens cleaning

Wipe the lens gently by using the lens paper. Do not touch the lens with finger.

Cleaning of projector shell

Wipe the shell gently by using soft cloth. If dust and dirt are stubborn, firstly immerse the soft cloth in the water or neutral disinfectant and then wipe the shell, and then wipe off the shell with soft and dry cloth.

 Note

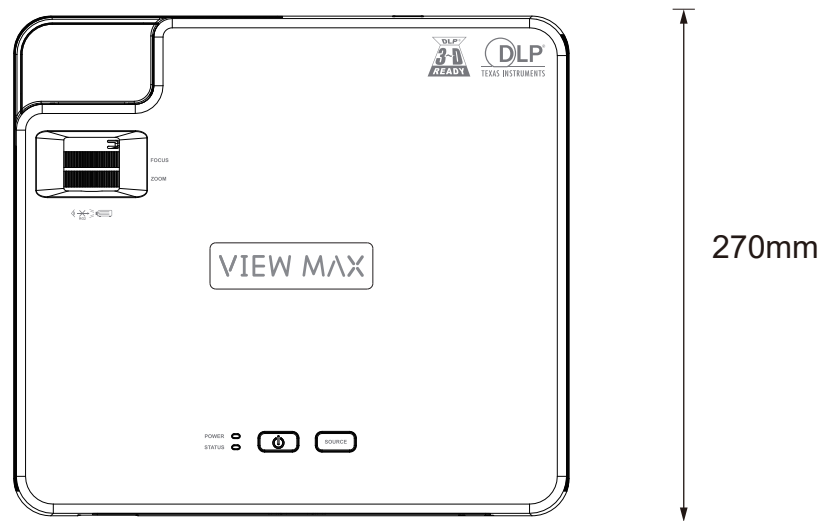
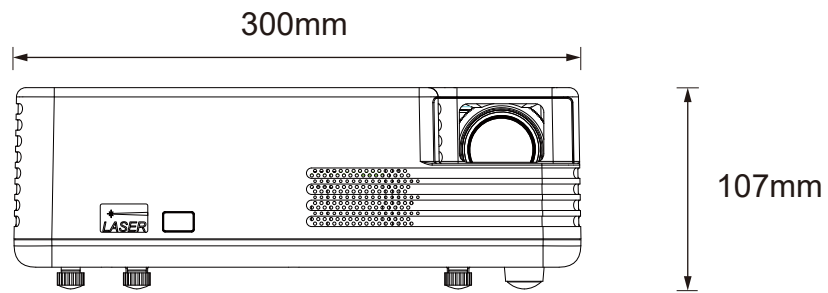
- *Power off the Product and unplug the AC power line from the power socket prior to maintenance.*
- *Make sure the lens is cooled prior to cleaning.*
- *Do not use the cleaning agent or chemical product that are unmentioned above. Do not use the benzene or diluent.*
- *Do not use the chemical spray.*
- *Only soft cloth or lens paper should be used.*

Specification

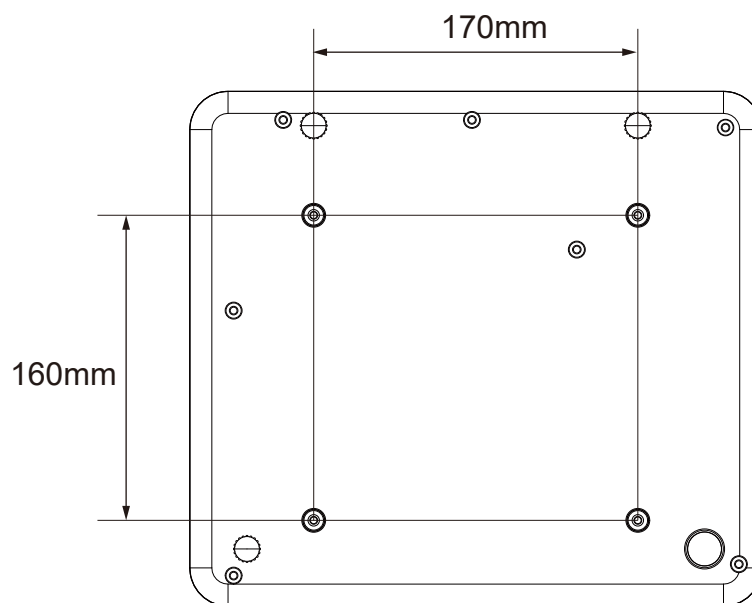
Model	DLP
Display system	0.55" XGA / 0.65" 1080P
Resolution	XGA (1024 x 768) 1080P(1920X1080)
Width-height ratio	Original/ 4:3/16:9/16:10
Zoom ratio	1.1x/ 1.2x
Projection ratio	1.95-2.18/ 1.52-1.83
Image size (diagonal)	50" - 150" / 50" - 200"
Light source	Laser
Input port (standard) Output port (standard)	COMPUTER IN AUDIO IN USB A 5V/1.5A AUDIO OUT HDMI OUT (applies to Type FHD only)
Control port	RS-232 MINI USB
Loudspeaker	10W (only Type 1080P is fitted with loudspeaker)
HDTV compatibility	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
Video compatibility	NTSC, PAL, SECAM, SDTV
Horizontal frequency	15 - 102 KHz
Vertical frequency	23 - 120 Hz
Environment	During running: Temperature: 0°C to 35°C Humidity: 10%~90% During storage: Temperature: -20°C to 60°C Humidity: 10%~90%
Power supply	100-240V+/- 10%, 50/60Hz AC
Power consumption	250W (max.)
Power consumption of standby mode	<0.50W
Dimensions (W×D×H)	300*270*107mm

Note: Design and specification are subject to changes without a prior notice.

Dimensions



Hoisting Installation



Note: It is suggested to use M4/L7 screws to fix the project which uses M4 screw holes for hoisting. (M4/L7×4)

Annex

Troubleshooting

Please refer to the fault phenomenon and troubleshooting methods below before sending the Product for maintenance. If the problem remains, please contact the local dealer or service center.

Startup

If indicator lamps are off:

- Make sure to firmly connect one end of power line to the Product and connect another end to the electrified power socket.
- Press the power button again.
- Unplug the power line, wait for a certain period, reinsert the power line and press “Power” button again.

Image

If it shows signal source searching in progress:

- Select the enabled input source based on the signal source.
- Make sure the external signal source is connected and it is powered on.
- Make sure the external video port of lap top is enabled prior to computer connection. Please refer to the computer manual.

If image focusing is inaccurate:

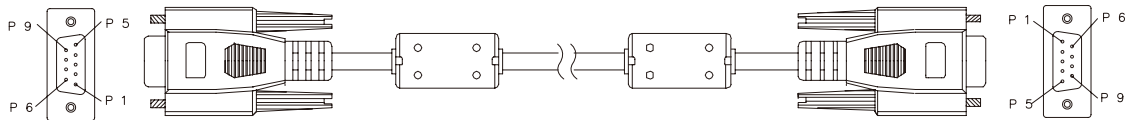
- Adjust the focusing dial rod if it shows screen menu.
- Check if the projection lens needs cleaning.
- If the image has flickering or instability during computer connection:
- Press “Menu”, enter **Display** and then adjust **Phase Position** or **Horizontal Dimensions**.

Remote controller:

If remote controller does not work:

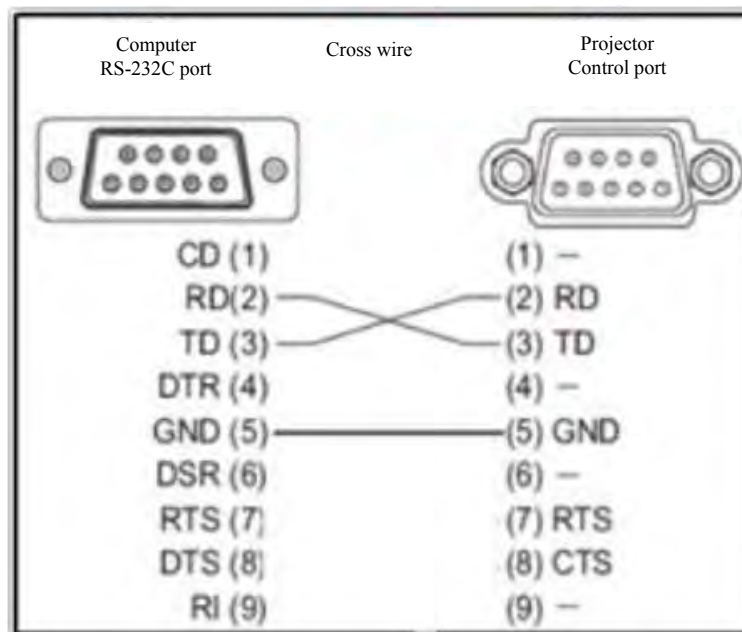
- Make sure the front remote receiver of the Product is not blocked. Use the remote controller within the valid range.
- Point the remote controller at the screen or front of the Product.
- Move the remote controller, put it at front of the Product, instead of far places at lateral sides.

RS-232 Command and Configuration (ASCII)



RS-232: 9-PIN Type D interface applies to connection of PC control system and continuous connection of the Product

RS-232 (RS-232 control): Connect the Product to PC or control system to realize remote control of the Product through standard 9-pin cables (through serial cable directly).



Pin	Description	Pin	Description
1	NC	2	RX
3	TX	4	NC
5	GND	6	NC
7	RTSZ	8	CTSZ
9	NC		

Baud Rate	115200 bps
Data length	8-bit
Parity check	No
Stop bit	1 bit
Flow control	No

RS-232 Command and Configuration

ASCII code

Function	Command	return	remark
Power Off	[POWR0]		
Power On	[POWR1]		
Power read	[POWR?]	[POWR*]	*=0~1
Color Mode_standard	[DPMO0]		
Color Mode_computer	[DPMO1]		
Color Mode_Presentation	[DPMO2]		
Color Mode_Photo	[DPMO3]		
Color Mode_Movie	[DPMO4]		
Color Mode_read	[DPMO?]	[DPMO*]	*=0~4
Brightness +	[BRIG+]		
Brightness -	[BRIG-]		
Brightness	[BRIG***]		***=0~100
Brightness read	[BRIG?]	[BRIG***]	***=0~100
Contrast +	[CONT+]		
Contrast -	[CONT-]		
Contrast	[CONT***]		***=-50~50
Contrast read	[CONT?]	[CONT***]	***=-50~50
Color temp. Warm	[CTMP0]		
Color temp. Normal	[CTMP1]		
Color temp. Cool	[CTMP2]		
Color temp. read	[CTMP?]	[CTMP*]	*=0~2
Color +	[COLR+]		
Color -	[COLR-]		
Color	[COLR***]		***=0~100
Color read	[COLR?]	[COLR***]	***=0~100
Tint +	[TINT+]		

RS-232 Command and Configuration

Function	Command	return	remark
Tint -	[TINT-]		
Tint	[TINT***]		***=0~100
Tint read	[TINT?]	[TINT***]	***=0~100
Sharpness +	[SHRP+]		
Sharpness -	[SHRP-]		
Sharpness	[SHRP**]		**=0~31
Sharpness read	[SHRP?]	[SHRP**]	**=0~31
Gamma	[GAMM*]		*=0~6
Gamma read	[GAMM?]	[GAMM*]	*=0~6
BrilliantColor +	[WHPK+]		
BrilliantColor -	[WHPK-]		
BrilliantColor	[WHPK**]		**=0~10
BrilliantColor read	[WHPK?]	[WHPK**]	**=0~10
Color managemwnt Red Hue +	[HGRH+]		
Color managemwnt Red Hue -	[HGRH-]		
Color managemwnt Red Hue	[HGRH***]		***=99~99
Color managemwnt Red Hue read	[HGRH?]	[HGRH***]	***=99~99
Color managemwnt Red Saturation +	[HGRS+]		
Color managemwnt Red Saturation -	[HGRS-]		
Color managemwnt Red Saturation	[HGRS***]		***=0~199
Color managemwnt Red Saturation read	[HGRS?]	[HGRS***]	***=0~199
Color managemwnt Red Gain +	[HGRG+]		
Color managemwnt Red Gain -	[HGRG-]		
Color managemwnt Red Gain	[HGRG***]		***=5~195
Color managemwnt Red Gain read	[HGRG?]	[HGRG***]	***=5~195
Color managemwnt Green Hue +	[HGGH+]		

RS-232 Command and Configuration

Function	Command	return	remark
Color managemwnt Green Hue -	[HGGH-]		
Color managemwnt Green Hue	[HGGH***]		***=-99~99
Color managemwnt Green Hue read	[HGGH?]	[HGGH***]	***=-99~99
Color managemwnt Green Saturation +	[HGGs+]		
Color managemwnt Green Saturation -	[HGGs-]		
Color managemwnt Green Saturation	[HGGs***]		***=0~199
Color managemwnt Green Saturation read	[HGGs?]	[HGGs***]	***=0~199
Color managemwnt Green Gain +	[HGGG+]		
Color managemwnt Green Gain -	[HGGG-]		
Color managemwnt Green Gain	[HGGG***]		***=5~195
Color managemwnt Green Gain read	[HGGG?]	[HGGG***]	***=5~195
Color managemwnt Blue Hue +	[HGBH+]		
Color managemwnt Blue Hue -	[HGBH-]		
Color managemwnt Blue Hue	[HGBH***]		***=-99~99
Color managemwnt Blue Hue read	[HGBH?]	[HGBH***]	***=-99~99
Color managemwnt Blue Saturation +	[HGBS+]		
Color managemwnt Blue Saturation -	[HGBS-]		
Color managemwnt Blue Saturation	[HGBS***]		***=0~199
Color managemwnt Blue Saturation read	[HGBS?]	[HGBS***]	***=0~199
Color managemwnt Blue Gain +	[HGBG+]		
Color managemwnt Blue Gain -	[HGBG-]		
Color managemwnt Blue Gain	[HGBG***]		***=5~195
Color managemwnt Blue Gain read	[HGBG?]	[HGBG***]	***=5~195
Color managemwnt Cyan Hue +	[HGCH+]		
Color managemwnt Cyan Hue -	[HGCH-]		
Color managemwnt Cyan Hue	[HGCH***]		***=-99~99

RS-232 Command and Configuration

Function	Command	return	remark
Color managemwnt Cyan Hue read	[HGCH?]	[HGCH***]	***=-99~99
Color managemwnt Cyan Saturation +	[HGCS+]		
Color managemwnt Cyan Saturation -	[HGCS-]		
Color managemwnt Cyan Saturation	[HGCS***]		***=0~199
Color managemwnt Cyan Saturation read	[HGCS?]	[HGCS***]	***=0~199
Color managemwnt Cyan Gain +	[HGCG+]		
Color managemwnt Cyan Gain -	[HGCG-]		
Color managemwnt Cyan Gain	[HGCG***]		***=5~195
Color managemwnt Cyan Gain read	[HGCG?]	[HGCG***]	***=5~195
Color managemwnt Magenta Hue +	[HGMH+]		
Color managemwnt Magenta Hue -	[HGMH-]		
Color managemwnt Magenta Hue	[HGMH***]		***=-99~99
Color managemwnt Magenta Hue read	[HGMH?]	[HGMH***]	***=-99~99
Color managemwnt Magenta Saturation +	[HGMS+]		
Color managemwnt Magenta Saturation -	[HGMS-]		
Color managemwnt Magenta Saturation	[HGMS***]		***=0~199
Color managemwnt Magenta Saturation read	[HGMS?]	[HGMS***]	***=0~199
Color managemwnt Magenta Gain +	[HGMG+]		
Color managemwnt Magenta Gain -	[HGMG-]		
Color managemwnt Magenta Gain	[HGMG***]		***=5~195
Color managemwnt Magenta Gain read	[HGMG?]	[HGMG***]	***=5~195
Color managemwnt Yellow Hue +	[HGYH+]		
Color managemwnt Yellow Hue -	[HGYH-]		
Color managemwnt Yellow Hue	[HGYH***]		***=-99~99
Color managemwnt Yellow Hue read	[HGYH?]	[HGYH***]	***=-99~99
Color managemwnt Yellow Saturation +	[HGYS+]		

RS-232 Command and Configuration

Function	Command	return	remark
Color managemwnt Yellow Saturation -	[HGYS-]		
Color managemwnt Yellow Saturation	[HGYS***]		***=0~199
Color managemwnt Yellow Saturation read	[HGYS?]	[HGYS***]	***=0~199
Color managemwnt Yellow Gain +	[HGYG+]		
Color managemwnt Yellow Gain -	[HGYG-]		
Color managemwnt Yellow Gain	[HGYG***]		***=5~195
Color managemwnt Yellow Gain read	[HGYG?]	[HGYG***]	***=5~195
Reset Color Setting	[CORT1]		
Aspect Ratio Auto	[ASPR0]		
Aspect Ratio 4:3	[ASPR1]		
Aspect Ratio 16:9	[ASPR2]		
Aspect Ratio 16:10	[ASPR3]		
Aspect Ratio read	[ASPR?]	[ASPR*]	*=0~3
Keystone V +	[VKES+]		
Keystone V -	[VKES-]		
Keystone V	[VKES***]		***=-40~40
Keystone V read	[VKES?]	[VKES***]	***=-40~40
Keystone H +	[HKES+]		
Keystone H -	[HKES-]		
Keystone H	[HKES***]		***=-40~40
Keystone H read	[HKES?]	[HKES***]	***=-40~40
Corner Left Top X +	[TLCX+]		
Corner Left Top X -	[TLCX-]		
Corner Left Top X	[TLCX***]		***=0~200 According to the angle of DMD & Keystone & input source
Corner Left Top X read	[TLCX?]	[TLCX***]	***=0~200 According to the angle of DMD & Keystone & input source
Corner Left Top Y +	[TLCY+]		

RS-232 Command and Configuration

Function	Command	return	remark
Corner Left Top Y -	[TLCY-]		
Corner Left Top Y	[TLCY***]		***=0~200 According to the angle of DMD & Keystone & input source
Corner Left Top Y read	[TLCY?]	[TLCY***]	***=0~200 According to the angle of DMD & Keystone & input source
Corner Left Bottom X +	[BLCX+]		
Corner Left Bottom X -	[BLCX-]		
Corner Left Bottom X	[BLCX***]		***=0~200 According to the angle of DMD & Keystone & input source
Corner Left Bottom X read	[BLCX?]	[BLCX***]	***=0~200 According to the angle of DMD & Keystone & input source
Corner Left Bottom Y +	[BLCY+]		
Corner Left Bottom Y -	[BLCY-]		
Corner Left Bottom Y	[BLCY***]		***=0~200 According to the angle of DMD & Keystone & input source
Corner Left Bottom X read	[BLCY?]	[BLCY***]	***=0~200 According to the angle of DMD & Keystone & input source
Corner Right Top X +	[TRCX+]		
Corner Right Top X -	[TRCX-]		
Corner Right Top X	[TRCX***]		***=0~200 According to the angle of DMD & Keystone & input source
Corner Right Top X read	[TRCX?]	[TRCX***]	***=0~200 According to the angle of DMD & Keystone & input source
Corner Right Top Y +	[TRCY+]		
Corner Right Top Y -	[TRCY-]		
Corner Right Top Y	[TRCY***]		***=0~200 According to the angle of DMD & Keystone & input source
Corner Right Top Y read	[TRCY?]	[TRCY***]	***=0~200 According to the angle of DMD & Keystone & input source
Corner Right Bottom X +	[BRCX+]		
Corner Right Bottom X -	[BRCX-]		
Corner Right Bottom X	[BRCX***]		***=0~200 According to the angle of DMD & Keystone & input source
Corner Right Bottom X read	[BRCX?]	[BRCX***]	***=0~200 According to the angle of DMD & Keystone & input source
Corner Right Bottom Y +	[BRCY+]		
Corner Right Bottom Y -	[BRCY-]		
Corner Right Bottom Y	[BRCY***]		***=0~200 According to the angle of DMD & Keystone & input source

RS-232 Command and Configuration

Function	Command	return	remark
Corner Right Bottom Y read	[BRCY?]	[BRCX***]	***=0~200 According to the angle of DMD & Keystone & input source
Position V +	[VPOS+]		
Position V -	[VPOS-]		
Position V	[VPOS**]		*=-.5~5
Position V read	[VPOS?]	[VPOS**]	*=-.5~5
Position H +	[HPOS+]		
Position H -	[HPOS-]		
Position H	[HPOS**]		*=-.5~5
Position H read	[HPOS?]	[HPOS**]	*=-.5~5
Phase +	[PHAS+]		
Phase -	[PHAS-]		
Phase	[PHAS**]		**=0~31
Phase read	[PHAS?]	[PHAS**]	**=0~31
H size +	[CLCK+]		
H size -	[CLCK-]		
H size	[CLCK***]		***=-15~15
H size read	[CLCK?]	[CLCK***]	***=-15~15
Over Scan	[OVSC*]		*=0~5
Over Scan read	[OVSC?]	[OVSC*]	*=0~5
3D Sync Auto	[TDEN0]		
3D Sync Frame Packing	[TDEN1]		
3D Sync Side by side	[TDEN2]		
3D Sync Top Bottom	[TDEN3]		
3D Sync Frame Sequential	[TDEN4]		
3D Sync Off	[TDEN5]		
3D Sync read	[TDEN?]	[TDEN*]	*=0~5

RS-232 Command and Configuration

Function	Command	return	remark
3D Sync Invert Off	[TDIV0]		
3D Sync Invert On	[TDIV1]		
3D Sync Invert read	[TDIV?]	{TDIV*}	*=0~1
DLP Link Off	[TDDL0]		
DLP Link On	[TDDL1]		
DLP Link read	[TDDL?]	[TDDL*]	*=0~1
Audio Mute	[AMUT0]		
Audio Mute	[AMUT1]		
Audio Mute read	[AMUT?]	[AMUT*]	*=0~1
Volumne +	[VOLM+]		
Volume -	[VOLM-]		
Volumne	[VOLM**]		**=0~20
Volume read	[VOLM?]	[VOLM**]	**=0~20
Timer Period	[TMPR***]		***=1,2,3,4,5,10,15,20,60,120,240
Timer Period read	[TMPR?]	[TMPR***]	***=1,2,3,4,5,10,15,20,60,120,240
Timer Display Always	[TMDP0]		
Timer Display 3 min	[TMDP1]		
Timer Display 2 min	[TMDP2]		
Timer Display 1 min	[TMDP3]		
Timer Display Never	[TMDP4]		
Timer Display read	[TMDP?]	[TMDP*]	*=0~4
Timer Position Top-Lef	[TMPS0]		
Timer Position Bottom-Left	[TMPS1]		
Timer Position Top-Right	[TMPS2]		
Timer Position Bottom-Right	[TMPS3]		
Timer Position read	[TMPS?]	[TMPS*]	*=0~3

RS-232 Command and Configuration

Function	Command	return	remark
Timer Counting Direction Down	[TMCD0]		
Timer Counting Direction Up	[TMCD1]		
Timer Counting Direction read	[TMCD?]	[TMCD*]	*=0~1
Start Counting No	[TMSC0]		
Start Counting Yes	[TMSC1]		
Start Counting read	[TMSC?]	[TMSC*]	*=0~1
Pattern Off	[TPRN0]		
Pattern On	[TPRN1]		
Pattern read	[TPRN?]	[TPRN*]	*=0~1
Blank Timer	[BLTM*]		*=0~6 * X 5=min
Blank Timer read	[BLTM?]	[BLTM*]	*=0~6 * X 5=min
Message Off	[MSG0]		
Message On	[MSG1]		
Message read	[MSG?]	[MSG*]	*=0~1
Splash Screen Black	[SPSR0]		
Splash Screen Blue	[SPSR1]		
Splash Screen Default	[SPSR2]		
Splash Screen read	[SPSR?]	[SPSR*]	*=0~2
Direct Power On Enable	[DPON0]		
Direct Power On Disable	[DPON1]		
Direct Power On read	[DPON?]	[DPON*]	*=0~1
Auto Power Off	[APOF*]		*=0~6 * X 5=min
Auto Power Off read	[APOF?]	[APOF*]	*=0~6 * X 5=min
Sleep Timer Never	[SLTM0]		
Sleep Timer 1Min	[SLTM1]		
Sleep Timer 30Min	[SLTM2]		

RS-232 Command and Configuration

Function	Command	return	remark
Sleep Timer 1hr	[SLTM3]		
Sleep Timer 2hr	[SLTM4]		
Sleep Timer 3hr	[SLTM5]		
Sleep Timer 4hr	[SLTM6]		
Sleep Timer 8hr	[SLTM7]		
Sleep Timer 12hr	[SLTM8]		
Sleep Timer read	[SLTM?]	[SLTM*]	*=0~8
Power Saving	[POSA0]		
Power Saving	[POSA1]		
Power Saving read	[POSA?]	[POSA*]	*=0~1
HDMI Format Auto	[HDFM0]		
HDMI Format RGB	[HDFM1]		
HDMI Format YUV	[HDFM2]		
HDMI Format read	[HDFM?]	[HDFM*]	*=0~2
HDMI Range Auto	[HDRG0]		
HDMI Range Normal	[HDRG1]		
HDMI Range Enhanced	[HDRG2]		
HDMI Range read	[HDRG?]	[HDRG*]	*=0~2
Light Source Mode_Normal	[LPMO0]		
Light Source Mode_ECO	[LPMO1]		
Light Source Mode_Dynamic Contrast	[LPMO2]		
Light Source Mode Read	[LPMO?]	[LPMO*]	*=0~2
Dynamic Black Off	[DYBK0]		
Dynamic Black On	[DYBK1]		
Dynamic Black read	[DYBK?]	[DYBK*]	*=0~1
Language_English	[LANG0]		

RS-232 Command and Configuration

Function	Command	return	remark
Language French	[LANG1]		
Language German	[LANG2]		
Language Italiano	[LANG3]		
Language Spanish	[LANG4]		
Language Russian	[LANG5]		
Language Chinese	[LANG6]		
Language Simple Chinese	[LANG7]		
Language Japanese	[LANG8]		
Language Korean	[LANG9]		
Language Swedsh	[LANG10]		
Language Dutch	[LANG11]		
Language Turkish	[LANG12]		
Language Czech	[LANG13]		
Language Portugese	[LANG14]		
Language Thai	[LANG15]		
Language Polish	[LANG16]		
Language Finnish	[LANG17]		
Language Arabic	[LANG18]		
Language Indonesia	[LANG19]		
Language Hindi	[LANG20]		
Language Viet	[LANG21]		
Language read	[LANG?]	[LANG**]	*=0~21
Projector Position	[PJPS0]		
Projector Position	[PJPS1]		
Projector Position	[PJPS2]		
Projector Position	[PJPS3]		

RS-232 Command and Configuration

Function	Command	return	remark
Projector Position read	[PJPS?]	[PJPS*]	*=0~3
Menu Display Time	[MUDT*]		
Menu Display Time read	[MUDT?]	[MUDT*]	*=0~5
Menu Position TOPLEFT	[MUPS0]		
Menu Position TOPRIGHT	[MUPS1]		
Menu Position CENTER	[MUPS2]		
Menu Position BOTTOMLEFT	[MUPS3]		
Menu Position BOTTOMRIGHT	[MUPS4]		
Menu Position read	[MUPS?]	[MUPS*]	*=0~4
High Altitude Off	[HIAL0]		
High Altitude On	[HIAL1]		
High Altitude read	[HIAL?]	[HIAL*]	*=0~1
Quick Auto Search Off	[ASRC0]		
Quick Auto Search On	[ASRC1]		
Quick Auto Search read	[ASRC?]	[ASRC*]	*=0~1
Panel Key Lock Off	[KYLK0]		
Panel Key Lock On	[KYLK1]		
Panel Key Lock read	[KYLK?]	[KYLK*]	*=0~1
Reset Setting	[FRST1]		
Source Computer	[ISRC0]		
Source HDMI1	[ISRC5]		
Source HDMI2	[ISRC6]		
Source read	[ISRC?]	[MSRC*]	*=0,5,6
lamp total time	[LPTH?]	[LPTH*****]	
Lamp use time	[LPUH?]	[LPUH*****]	
Change Password	[PING*****,** ****]		***** , *****=old password, newpassword 1~4

RS-232 Command and Configuration

Function	Command	return	remark
Password acitive	[PINP*****]		*****=password 1~4
Setting	[KYPA1]		
Back	[KYPA2]		
Home	[KYPA3]		
Up	[KYPA4]		
Down	[KYPA5]		
Left	[KYPA6]		
Right	[KYPA7]		
Volume +	[KYPA8]		
Volume -	[KYPA9]		
Mute	[KYPA10]		
Source	[KYPA11]		
Enter	[KYPA12]		
Auto	[KYPA13]		
Fast Forward	[KYPA14]		
Fast Reverse	[KYPA15]		
Stop	[KYPA16]		
Play Pause	[KYPA17]		
Blank	[KYPA18]		
FreezeKey	[KYPA19]		
Exit	[KYPA20]		
Menu	[KYPA21]		

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference 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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

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

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

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

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

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