



DLP® Projector

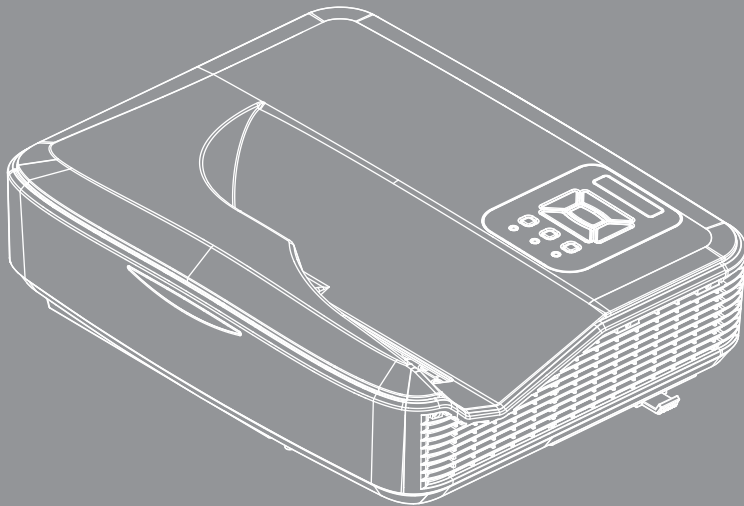




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Usage Notice

Safety Information

| | |
|---|---|
|  | The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. |
|  | The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. |

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

Class B emissions limits

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

Important Safety Instruction

1. Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
2. Do not use the projector near water or moisture. To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture.
3. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
4. Clean only with dry cloth.
5. Only use attachments/accessories specified by the manufacturer.
6. Do not use the unit if it has been physically damaged or abused.
Physical damage/abuse would be (but not limited to):
 - Unit has been dropped.
 - Power supply cord or plug has been damaged.
 - Liquid has been spilled on to the projector.
 - Projector has been exposed to rain or moisture.
 - Something has fallen in the projector or something is loose inside.Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards.
7. Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
8. See projector enclosure for safety related markings.
9. The unit should only be repaired by appropriate service personnel.

Usage Notice

Precautions



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

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

- Warning- To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture.

- Warning- Please do not open or disassemble the projector as this may cause electric shock.

Usage Notice

Do:

- ❖ Turn off and unplug the power plug from the AC outlet before cleaning the product.
- ❖ Use a soft dry cloth with mild detergent to clean the display housing.
- ❖ Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

Do not:

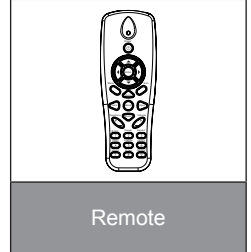
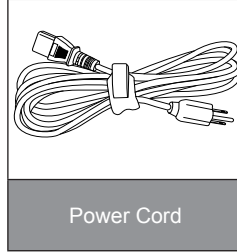
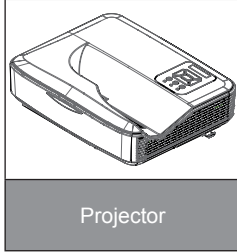
- ❖ Block the slots and openings on the unit provided for ventilation.
- ❖ Use abrasive cleaners, waxes or solvents to clean the unit.
- ❖ Use under the following conditions:
 - In extremely hot, cold or humid environments.
 - ▶ Sea level to 6000 feet
Extremely hot: > 35°C
Extremely cool: < 5°C
 - ▶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

Introduction

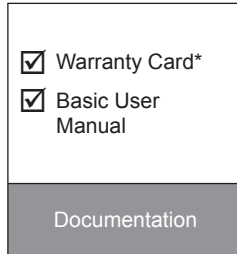
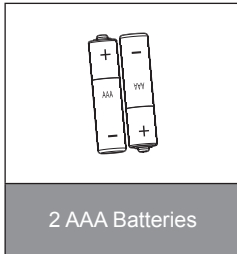
Package Overview

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

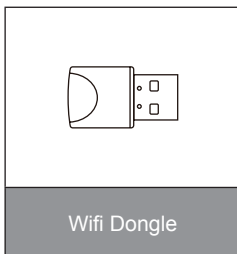
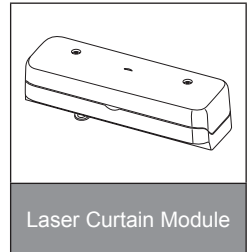
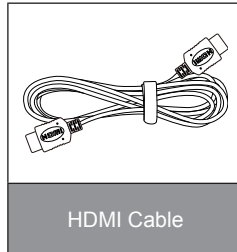
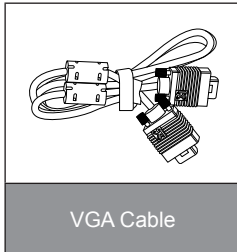
Standard Accessories



- ❖ Optional accessories vary depending on model, specification and region.
- ❖ For other laser curtain accessories, please refer to the laser curtain user manual.
- ❖ *For European warranty information please visit www.optoma-europe.com

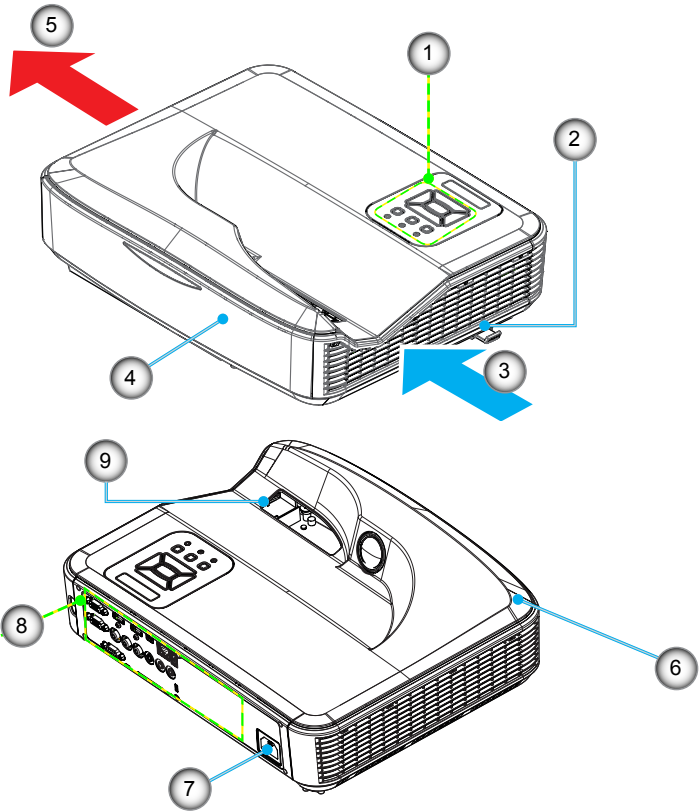


Optional Accessories



Product Overview

Main Unit

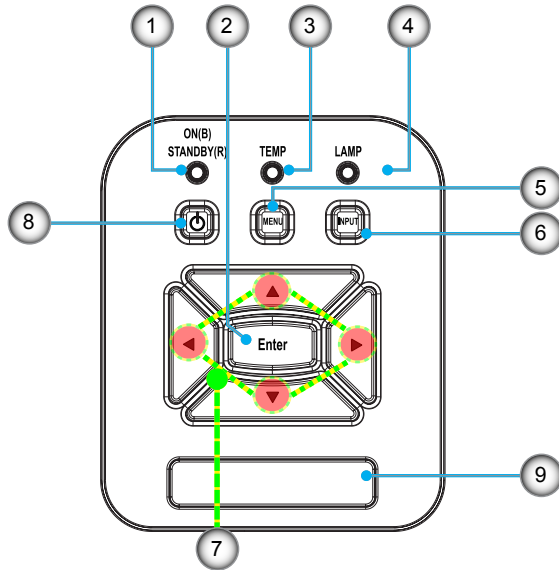


- ❖ The interface is subject to model's specifications.
- ❖ Do not block projector in/out air vents and keep a minimum 30cm distance.

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

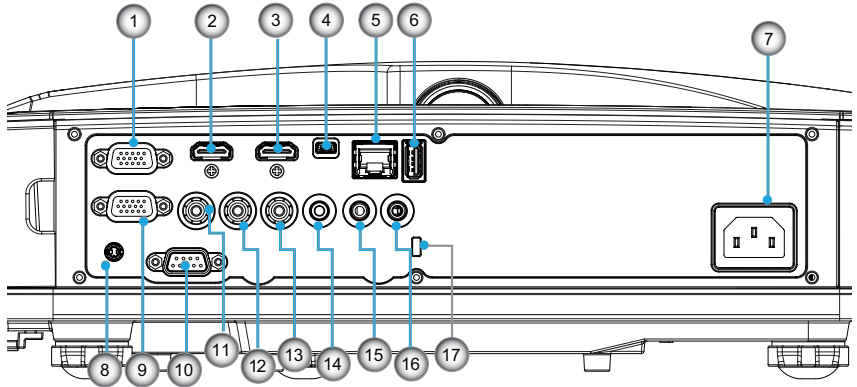
Introduction

Control Panel



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

Input/Output Connections



❖ The interface is subject to model's specifications.

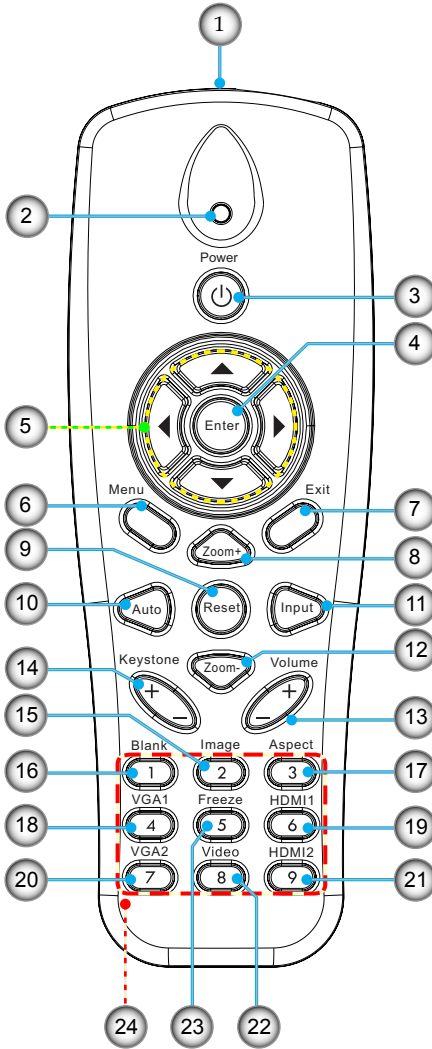


❖ Monitor loop through only support in VGA1-In/YPbPr.

1. VGA1-In/YPbPr Connector
(PC Analog Signal/Component Video Input/HDTV/YPbPr)
2. HDMI2 Input Connector
3. HDMI1 Input Connector
4. USB Connector (Connect to PC for Remote Mouse function)
5. RJ45 connector
6. USB Type A Connector
7. Power Socket
8. Interactive connector (3.5mm mini-jack, depending on Model)
9. VGA-Out/VGA2-In Connector
10. RS-232 Connector (9-pin DIN Type)
11. Composite Video Input Connector
12. Composite Audio Input (right) Connector
13. Composite Audio Input (left) Connector
14. Audio Output Connector (3.5mm mini jack)
15. Audio Input Connector (3.5mm mini jack)
16. Audio Input Connector (microphone)
17. Kensington™ Lock Port

Introduction

Remote Control

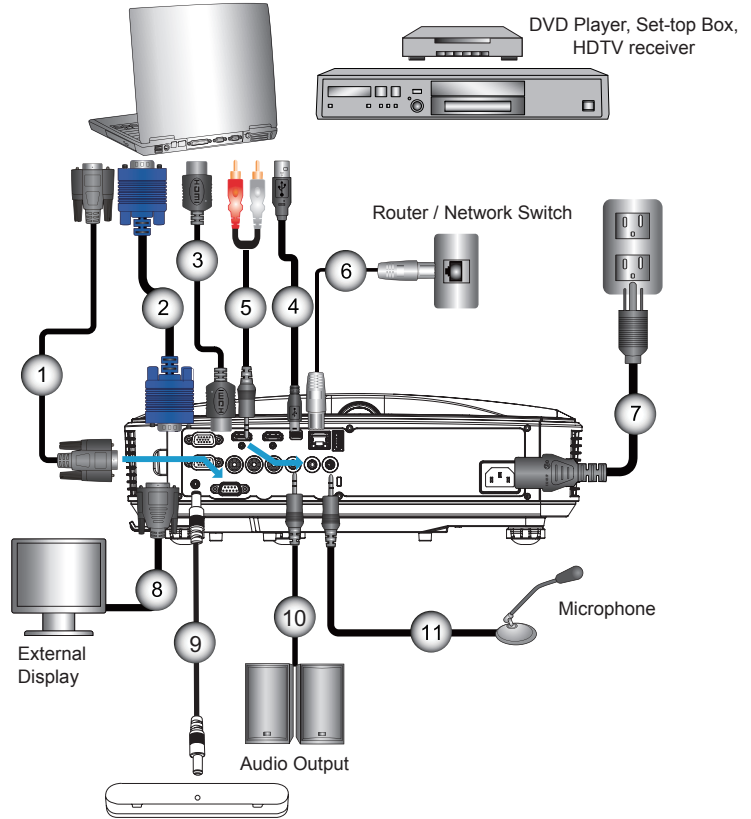


1. Infrared transmitter
2. LED Indicator
3. Power On/Off
4. OK
5. Four Directional Select Keys
6. Menu
7. Exit
8. Zoom in
9. Reset
10. Auto
11. Source
12. Zoom out
13. Volume +/-
14. Keystone +/-
15. Image
16. Black screen
17. Aspect ratio
18. VGA1
19. HDMI1
20. VGA2
21. HDMI2
22. Video
23. Screen freeze
24. Numbered keypad (for password input)



❖ Some keys may have not function for models which do not support these features.

Connecting the Projector Connect to Computer/Notebook



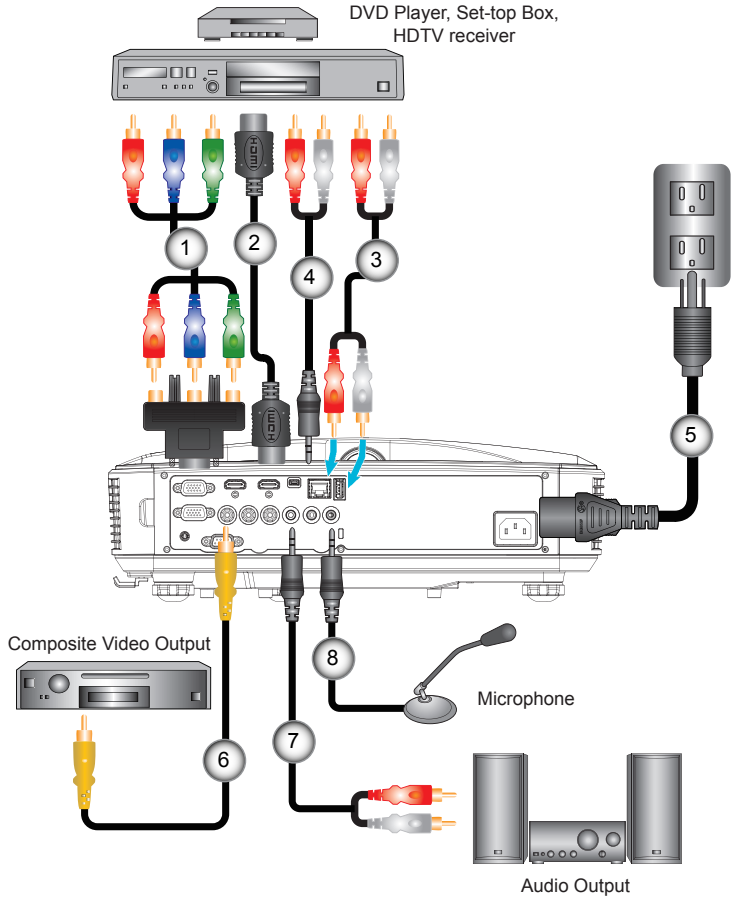
❖ Due to the difference in applications for each country, some regions may have different accessories.

❖ (*) Optional accessory

| | |
|---------|-------------------------|
| 1..... | *RS232 Cable |
| 2..... | *VGA Cable |
| 3..... | *HDMI Cable |
| 4..... | *USB Cable |
| 5..... | *Audio Cable/RCA |
| 6..... | *RJ45 Cable |
| 7..... | Power Cord |
| 8..... | *VGA Output Cable |
| 9..... | Interactive Cable |
| 10..... | *Audio Output Cable |
| 11..... | *Microphone Input Cable |

Installation

Connect to Video Sources




- ❖ Due to the difference in applications for each country, some regions may have different accessories.
- ❖ (*) Optional accessory

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

Powering the Projector On / Off

Powering On the Projector

1. Securely connect the power cord and signal cable. When connected, the POWER/STANDBY LED will turn Orange.
2. Turn on the lamp by pressing “” button either on the projector or on the remote. At this moment, the POWER/STANDBY LED will now turn Blue. **1**

The startup screen will display in approximately 10 seconds. The first time you use the projector, you will be asked to select the preferred language and power saving mode.

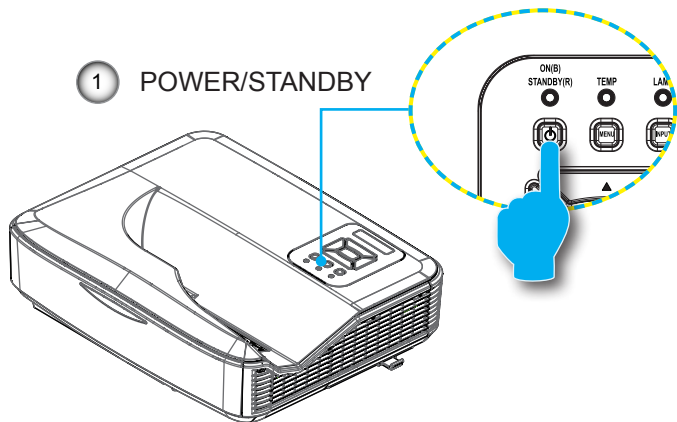
3. Turn on and connect the source that you want to display on the screen (computer, notebook, video player, etc). The projector will detect the source automatically. If not, push menu button and go to “OPTIONS”.
Make sure that the “Source Lock” has been set to “Off”.
- ❖ If you connect multiple sources at the same time, press the “INPUT” button on the control panel or direct source keys on the remote control to switch between inputs.



❖ When the power mode is in standby mode (power consumption < 0.5W), the VGA output/ input and audio will be deactivated when the projector is in standby.




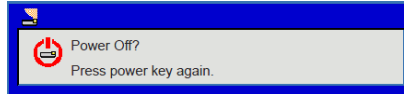
❖ Turn on the projector first and then select the signal sources.





Installation


Powering Off the Projector

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



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

2. The cooling fans continue to operate for about 4 seconds for cooling cycle and the POWER/STANDBY LED will flash Orange. When the POWER/STANDBY LED lights solid Orange, the projector has entered standby mode.

If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press “” button to restart the projector.

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

Warning Indicator



❖ Contact the nearest service center if the projector displays these symptoms.

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

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

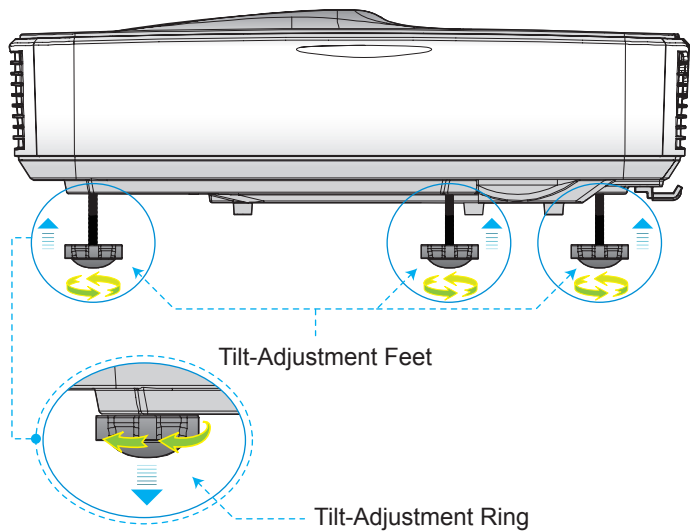
Unplug the power cord from the projector, wait for 30 seconds and try again. If the warning indicator light up again, please contact your nearest service center for assistance.

Adjusting the Projected Image

Adjusting the Projector's Height

The projector is equipped with elevator feet for adjusting the image height.

1. Locate the adjustable foot you wish to modify on the underside of the projector.
2. Rotate the adjustable ring clockwise to raise the projector or counter clockwise to lower it. Repeat with the remaining feet as needed.

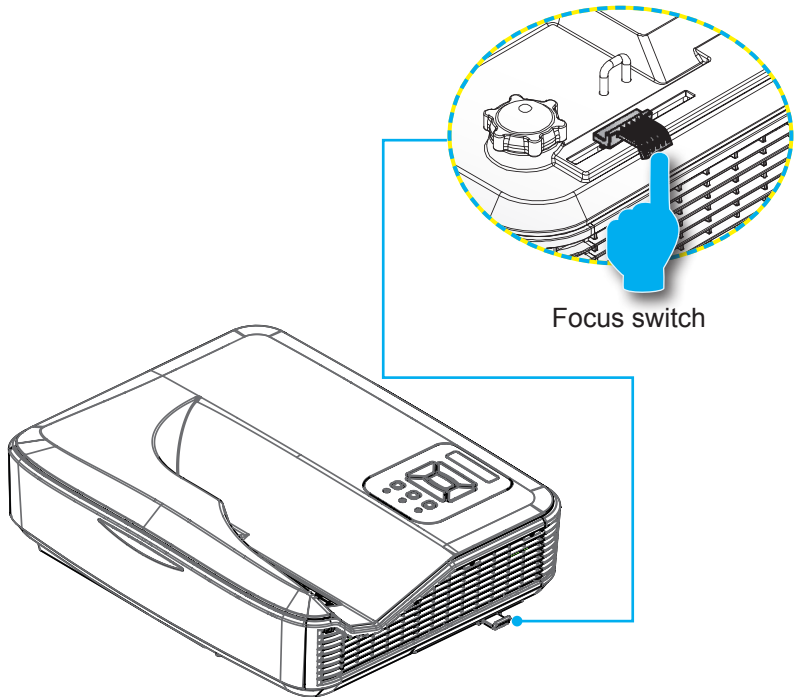


Installation

Adjusting the Projector's Focus

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

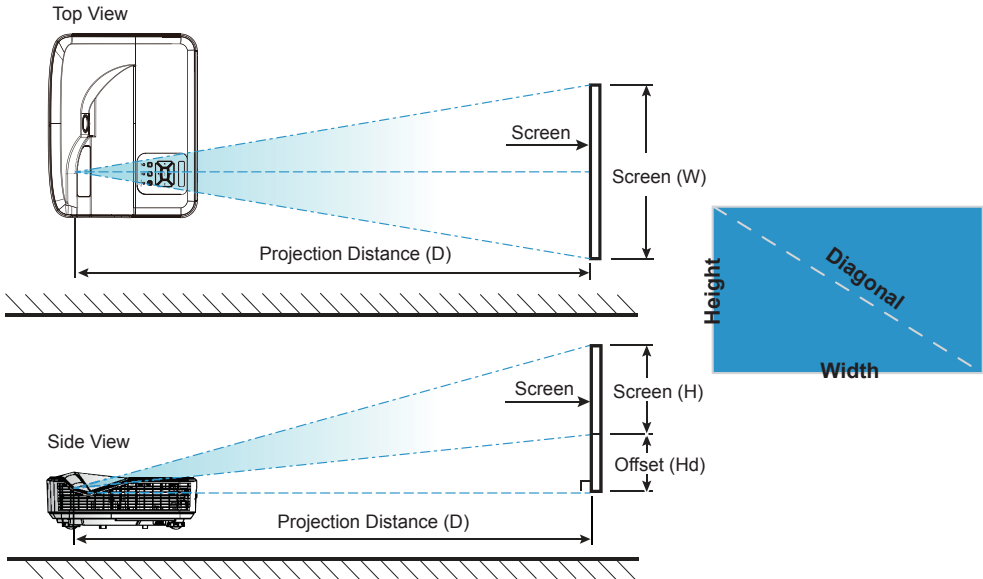
- ▶ 1080p series: The projector will focus at distances from 1.443 to 1.887 feet (0.437 to 0.572 meters).
- ▶ WXGA series: The projector will focus at distances (lens to wall) from 1.59~2.16 feet (0.49~0.66 meters)



Installation

Adjusting Projection Image Size (Diagonal)

- ▶ 1080p series: Projection Image Size from 80" to 100" (2.03 to 2.54 meters).
- ▶ WXGA series: The projector will focus at distances (lens to wall) from 1.59~2.16 feet (0.49~0.66 meters)



1080P (16:9) Wall mount installation measurement chart

| Diagonal image size (S) in inch | Diagonal image size (S) in mm | Image width (W) in mm | Image height (H) in mm | Distance from surface of whiteboard to center of projector mount (T) in mm | Distance from surface of whiteboard to back of projector (T1) in mm | Distance from top of image to top of wall plate (O) in mm | Distance from top of image to top of interface boss (O1) in mm | Distance from top of image to top of projector (O2) in mm |
|---------------------------------|-------------------------------|-----------------------|------------------------|--|---|---|--|---|
| 87 | 2210 | 1926 | 1083 | 370 | 233 | 364 | 288 | 268 |
| 88 | 2235 | 1948 | 1096 | 376 | 239 | 367 | 291 | 271 |
| 89 | 2261 | 1970 | 1108 | 382 | 245 | 370 | 294 | 274 |
| 90 | 2286 | 1992 | 1121 | 387 | 250 | 372 | 296 | 276 |
| 91 | 2311 | 2015 | 1133 | 393 | 256 | 375 | 299 | 279 |
| 92 | 2337 | 2037 | 1146 | 398 | 261 | 377 | 301 | 281 |
| 93 | 2362 | 2059 | 1158 | 404 | 267 | 380 | 304 | 284 |
| 94 | 2388 | 2081 | 1171 | 409 | 272 | 383 | 307 | 287 |
| 95 | 2413 | 2103 | 1183 | 415 | 278 | 385 | 309 | 289 |
| 96 | 2438 | 2125 | 1196 | 421 | 284 | 388 | 312 | 292 |
| 97 | 2464 | 2147 | 1208 | 426 | 289 | 390 | 314 | 294 |

Installation

| 1080P (16:9) Wall mount installation measurement chart | | | | | | | | |
|--|-------------------------------|-----------------------|------------------------|--|---|---|--|---|
| Diagonal image size (S) in inch | Diagonal image size (S) in mm | Image width (W) in mm | Image height (H) in mm | Distance from surface of whiteboard to center of projector mount (T) in mm | Distance from surface of whiteboard to back of projector (T1) in mm | Distance from top of image to top of wall plate (O) in mm | Distance from top of image to top of interface boss (O1) in mm | Distance from top of image to top of projector (O2) in mm |
| 98 | 2489 | 2170 | 1220 | 432 | 295 | 393 | 317 | 297 |
| 99 | 2515 | 2192 | 1233 | 437 | 300 | 396 | 320 | 300 |
| 100 | 2540 | 2214 | 1245 | 443 | 306 | 398 | 322 | 302 |
| 101 | 2565 | 2236 | 1258 | 448 | 311 | 401 | 325 | 305 |
| 102 | 2591 | 2258 | 1270 | 454 | 317 | 403 | 327 | 307 |

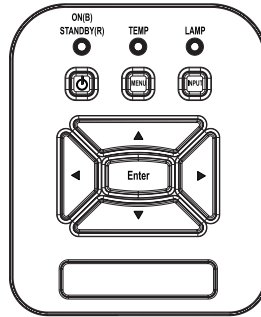
| WXGA (16:10) Wall mount installation measurement chart | | | | | | | | |
|--|-------------------------------|-----------------------|------------------------|--|---|---|--|---|
| Diagonal image size (S) in inch | Diagonal image size (S) in mm | Image width (W) in mm | Image height (H) in mm | Distance from surface of whiteboard to center of projector mount (T) in mm | Distance from surface of whiteboard to back of projector (T1) in mm | Distance from top of image to top of wall plate (O) in mm | Distance from top of image to top of interface boss (O1) in mm | Distance from top of image to top of projector (O2) in mm |
| 85 | 2159 | 1831 | 1144 | 370 | 233 | 342 | 266 | 246 |
| 86 | 2184 | 1852 | 1158 | 376 | 239 | 344 | 268 | 248 |
| 87 | 2210 | 1874 | 1171 | 382 | 245 | 346 | 270 | 250 |
| 88 | 2235 | 1895 | 1185 | 387 | 250 | 349 | 273 | 253 |
| 89 | 2261 | 1917 | 1198 | 393 | 256 | 351 | 275 | 255 |
| 90 | 2286 | 1939 | 1212 | 399 | 262 | 353 | 277 | 257 |
| 91 | 2311 | 1960 | 1225 | 404 | 267 | 356 | 280 | 260 |
| 92 | 2337 | 1982 | 1239 | 410 | 273 | 358 | 282 | 262 |
| 93 | 2362 | 2003 | 1252 | 416 | 279 | 361 | 285 | 265 |
| 94 | 2388 | 2025 | 1265 | 422 | 285 | 363 | 287 | 267 |
| 95 | 2413 | 2046 | 1279 | 427 | 290 | 365 | 289 | 269 |
| 96 | 2438 | 2068 | 1292 | 433 | 296 | 368 | 292 | 272 |
| 97 | 2464 | 2089 | 1306 | 439 | 302 | 370 | 294 | 274 |
| 98 | 2489 | 2111 | 1319 | 444 | 307 | 373 | 297 | 277 |
| 99 | 2515 | 2132 | 1333 | 450 | 313 | 375 | 299 | 279 |
| 100 | 2540 | 2154 | 1346 | 456 | 319 | 377 | 301 | 281 |
| 101 | 2565 | 2175 | 1360 | 461 | 324 | 380 | 304 | 284 |
| 102 | 2591 | 2197 | 1373 | 467 | 330 | 382 | 306 | 286 |
| 103 | 2616 | 2219 | 1387 | 473 | 336 | 384 | 308 | 288 |
| 104 | 2642 | 2240 | 1400 | 479 | 342 | 387 | 311 | 291 |
| 105 | 2667 | 2262 | 1414 | 484 | 347 | 389 | 313 | 293 |
| 106 | 2692 | 2283 | 1427 | 490 | 353 | 392 | 316 | 296 |
| 107 | 2718 | 2305 | 1440 | 496 | 359 | 394 | 318 | 298 |
| 108 | 2743 | 2326 | 1454 | 501 | 364 | 396 | 320 | 300 |
| 109 | 2769 | 2348 | 1467 | 507 | 370 | 399 | 323 | 303 |
| 110 | 2794 | 2369 | 1481 | 513 | 376 | 401 | 325 | 305 |
| 111 | 2819 | 2391 | 1494 | 519 | 382 | 403 | 327 | 307 |
| 112 | 2845 | 2412 | 1508 | 524 | 387 | 406 | 330 | 310 |
| 113 | 2870 | 2434 | 1521 | 530 | 393 | 408 | 332 | 312 |
| 114 | 2896 | 2455 | 1535 | 536 | 399 | 411 | 335 | 315 |
| 115 | 2921 | 2477 | 1548 | 541 | 404 | 413 | 337 | 317 |

❖ This table is for user's reference only.


User Controls

Control Panel & Remote Control

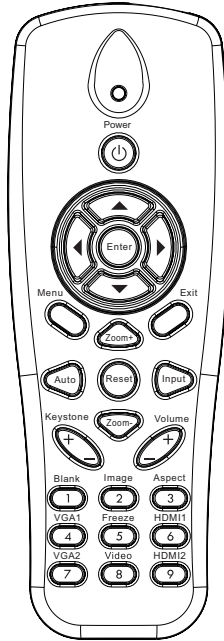
Control Panel



Using the Control Panel


| | | |
|------------------------------|---|---|
| POWER |  | Refer to the “Power On/Off the Projector” section on pages 13-14. |
| Enter | | Press “Enter” to confirm your item selection. |
| INPUT | | Press “INPUT” to select an input signal. |
| MENU | | Press “MENU” to launch the on-screen display (OSD) menu. To exit OSD, press “MENU” again. |
| Four Directional Select Keys | | Use ▲▼◀▶ to select items or make adjustments to your selection. |
| LAMP LED | | Refer to the LED indicator of the projector light source status. |
| TEMP LED | | Refer to the LED indicator of the projector temperature status. |
| ON/STANDBY LED | | Refer to the LED indicator of the projector power status. |

User Controls

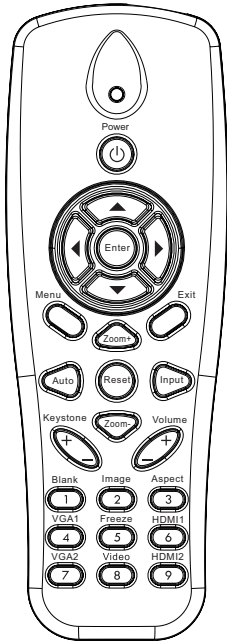


Remote Control

Using the Remote Control

| | |
|---|--|
| Infrared transmitter | Sends signals to the projector. |
| LED | LED Indicator. |
| Power  | Refer to the “Power On/Off the Projector” section on pages 15-16. |
| Exit | Press “Exit” to close the OSD menu. |
| Zoom in | Zoom in the projector display. |
| Reset | Return the adjustments and settings to the factory default values. (except for lamp counter) |
| Zoom out | Zoom out the projector display. |
| Enter | Confirm your item selection. |
| Source | Press “Source” to select an input signal. |
| Auto | Automatically synchronizes the projector to the input source. |
| Four Directional Select Keys | Use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection. |
| Keystone +/- | Adjust image distortion caused by tilting the projector. |
| Volume +/- | Adjust to increase / decrease the volume. |
| Aspect ratio | Use this function to choose your desired aspect ratio. |
| Menu | Press “Menu” to launch the on-screen display (OSD) menu. To exit OSD, press “Menu” again. |

User Controls



Using the Remote Control

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

User Controls

IR Remote codes

| key legend | NEC_CODE | | | |
|------------|-------------|-------|-------|-------|
| | Custom Code | | Data | |
| | Byte1 | Byte2 | Byte3 | Byte4 |
| Power | FF | FF | E8 | 17 |
| Up | FF | FF | E7 | 18 |
| Left | FF | FF | E6 | 19 |
| Enter | FF | FF | F8 | 7 |
| 4 | FF | FF | F7 | 8 |
| Down | FF | FF | F6 | 9 |
| Menu | FF | FF | EB | 14 |
| Zoom+ | FF | FF | FB | 4 |
| Exit | FF | FF | FF | 0 |
| Auto | FF | FF | FA | 5 |
| Reset | FF | FF | EA | 15 |
| Input | FF | FF | E0 | 1F |
| Zoom- | FF | FF | FE | 1 |
| Keystone+ | FF | FF | F0 | 0F |
| Keystone - | FF | FF | E2 | 1D |
| Volume- | FF | FF | F2 | 0D |
| Volume+ | FF | FF | BD | 42 |
| Blank/1 | FF | FF | BE | 41 |
| Image/2 | FF | FF | F3 | 0C |
| Aspect/3 | FF | FF | E3 | 1C |
| VGA1 /4 | FF | FF | BF | 40 |
| Freeze/5 | FF | FF | EC | 13 |
| HDMI1/6 | FF | FF | E5 | 1A |
| VGA2 /7 | FF | FF | E4 | 1B |
| HDMI2 /8 | FF | FF | EF | 10 |
| S-Video /9 | FF | FF | E1 | 1E |

User Controls

On-screen Display Menus

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

Structure

Note: Please note that the on-screen display (OSD) menus vary according to the signal type selected and the projector model you are using.

| Main Menu | Sub Menu | Setting | |
|-----------|----------------|--|--|
| Picture | Color Mode | | Bright/PC/Movie/Game/Blending./User (Change Color Mode to User Mode if customer changes the settings) |
| | Wall Color | | White/ Light Yellow/ Light Blue/ Pink/ Dark Green |
| | Brightness | | |
| | Contrast | | |
| | Sharpness | | |
| | Saturation | | |
| | Hue | | |
| | Gamma | | |
| | Color Temp | | |
| | Color Matching | White/Red/ Green/Blue/Cyan/ Magenta/Yellow | Hue/ Saturation /Gain |
| Screen | Aspect Ratio | | Auto/4:3/16:9/16:10 |
| | Phase | | |
| | Clock | | |
| | H.Position | | |
| | V.Position | | |
| | Digital Zoom | | |
| | Orientation | | Front/Front Ceiling/Rear/Rear Ceiling |
| | Size | | |

User Controls

| | | | | |
|----------------------|-----------------------|-----------------|--|-------------------------|
| Settings | Language | | English/German/French/Italian/Spanish/ Polish/Swedish/Dutch/Portugese/Japanese/ Traditional Chinese/ Simplified Chinese/ Korean/Russian/Arabic/Norsk/Turkish/Danish | |
| | Menu Location | | Left Top, Right Top, Center, Left Bottom, Right Bottom | |
| | Closed Caption | | Off/CC1/CC2/CC3/CC4 | |
| | VGA OUT (Standby) | | Off/On | |
| | LAN (Standby) | | Off/On | |
| | VGA-2 (Function) | Inout/Output | | |
| | Test Pattern | | Off/On | |
| | Reset to Default | | Yes/No | |
| Volume | Speaker | | On/Off | |
| | Line Out | | On/Off | |
| | Microphone | | On/Off | |
| | Mute | | On/Off | |
| | Volume | | | |
| | Microphone Volume | | | |
| Options | Logo | | Default/User | |
| | Logo Capture | | | |
| | Auto Source | | On/Off | |
| | Input | | VGA-1, VGA-2, HDMI-1, HDMI-2, Video, MULTIMEDIA | |
| | Auto Power Off (Min.) | | | |
| | SSI Settings | | | SSI Hours Used (Normal) |
| | | | | SSI Hours Used (ECO) |
| | | SSI Power Mode | | Normal, ECO |
| | High Altitude | On/Off | | |
| | Filter Settings | Filter Reminder | | |
| Cleaning Up Reminder | | | Yes/No | |

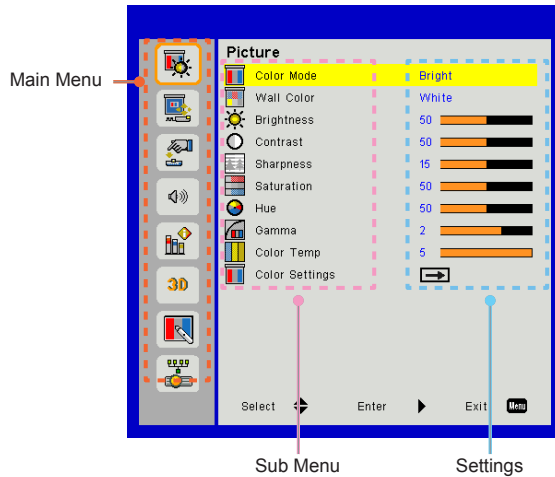
User Controls

| | | | |
|-------------|---------------------|------------------|------------------------------|
| Options | Information | | Model Name |
| | | | SNID |
| | | | Source |
| | | | Resolution |
| | | | SW Version |
| | | | Aspect Ratio |
| 3D | 3D | | Off/On |
| | 3D Invert | | On/Off |
| | 3D Format | | Frame Packing |
| | | | Side-by-Side (Half) |
| | | | Top and Bottom |
| | | | Frame Sequential |
| | | Field Sequential | |
| 1080p @ 24 | | 96Hz/144Hz | |
| Interactive | Interactive Setting | | On/Off(interactive SKU only) |
| Network | Status | | |
| | DHCP Client | | On/Off |
| | IP Address | | |
| | Subnet Mask | | |
| | Gateway | | |
| | DNS | | |
| | MAC Address | | |
| | Group Name | | |
| | Projector Name | | |
| | Location | | |
| | Contact | | |

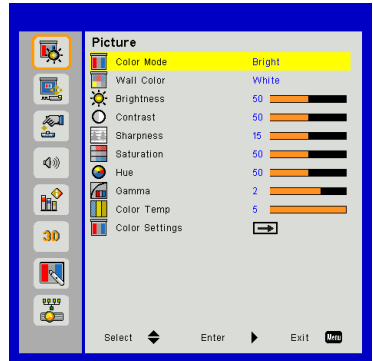
User Controls

How to operate

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



Picture



Color Mode

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

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

Wall Color

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

Brightness

Adjust the brightness of the image.

- ▶ Press the ◀ button to darken image.
- ▶ Press the ▶ button to brighten image.

Contrast

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

- ▶ Press the ◀ button to decrease the contrast.
- ▶ Press the ▶ button to increase the contrast.

User Controls



- ❖ “Sharpness”, “Saturation” and “Hue” functions are only supported under video mode.

Sharpness

Adjust the sharpness of the image.

- ▶ Press the ◀ button to decrease the sharpness.
- ▶ Press the ▶ button to increase the sharpness.

Saturation

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

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

Hue

Adjust the color balance of red and green.

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

Gamma

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

Color Temp

This allows you to adjust the color temperature. At higher temperature, the screen looks colder; at lower temperature, the screen looks warmer.

Color Settings

Use these settings for advanced adjustment of the individual Red, Green, Blue, Cyan, Magenta and Yellow Colors.

Screen



Aspect Ratio

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



- ❖ “H. Position” and “V. Position” ranges will depend on input source.

Phase

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

Clock

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

H. Position

- ▶ Press the ◀ button to move the image left.
- ▶ Press the ▶ button to move the image right.

User Controls

V. Position

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

Digital Zoom

- ▶ Press the ◀ button to reduce the size of an image.
- ▶ Press the ▶ button to magnify an image on the projection screen.

V Keystone

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

Orientation

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

User Controls

Setting



Language

Choose the multilingual OSD menu. Press the ◀ or ▶ button into the sub menu and then use the ▲ or ▼ button to select your preferred language. Press ▶ on the remote control to finalize the selection.



Menu Location

Choose the menu location on the display screen.

Closed Caption

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

VGA Output (Standby)

Choose "On" to enable VGA OUT connection.

User Controls

LAN (Standby)

Choose “On” to enable LAN connection. Choose “Off” to disable LAN connection.

VGA B (Function)

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

Test Pattern

Display a test pattern.

Reset

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

Volume



Speaker

- ▶ Choose “On” to enable the speaker.
- ▶ Choose “Off” to disable the speaker.

Line Out

- ▶ Choose “On” to enable the line out function.
- ▶ Choose “Off” to disable the line out function.

Microphone

- ▶ Choose “On” to enable the microphone.
- ▶ Choose “Off” to disable the microphone.

Mute

- ▶ Choose “On” to turn mute on.
- ▶ Choose “Off” to turn mute off.

Volume

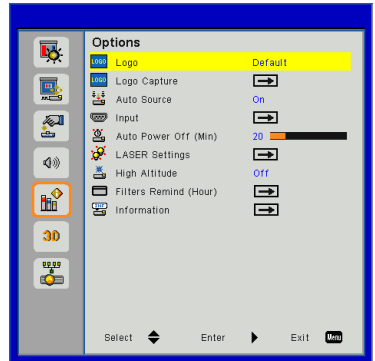
- ▶ Press the ◀ button to decrease the volume.
- ▶ Press the ▶ button to increase the volume.

Microphone Volume

- ▶ Press the ◀ button to decrease the microphone volume.
- ▶ Press the ▶ button to increase the microphone volume.

User Controls

Options



Logo

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

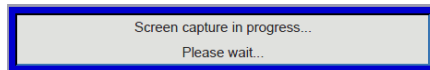
- ▶ Default: The default startup screen.
- ▶ User: Use stored picture from “Logo Capture” function.



- ❖ For successful logo capture, please ensure that the on-screen image does not exceed the projector's native resolution. (WXGA:1280x800).
- ❖ “Logo Capture” is not available when 3D is enabled.
- ❖ Before active this function, it is recommended that “Aspect Ratio” is set to the “Auto”.
- ❖ When auto source is ON the system will search Multimedia source if user had ever chosen multimedia source or it will skip multimedia source.

Logo Capture

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



Auto Source

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

Input

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





- ❖ Dynamic Black™ is available when “Color Mode” is set to “Movie”.
- ❖ When “Dynamic Black” is available, “Laser Power Mode” selection is not available.

Auto Power Off (Min)

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

Laser Settings

Refer to page 32.

High Altitude

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

Filters Remind (Hour)

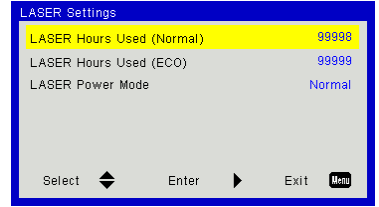
- ▶ Filters Remind (Hour): Set the filter reminder time.
- ▶ Cleaning Up Remind: Select “Yes” to reset the dust filter hour counter after replacing or cleaning the dust filter.

Information

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

User Controls

Options | Laser Settings



Laser Hours Used (Normal)

Display the projection time of normal mode.

Laser Hours Used (ECO)

Display the projection time of ECO mode.

Laser Power Mode

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

3D



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

3D

- ▶ Auto: When a HDMI 1.4a 3D timing identification signal is detected, the 3D image is selected automatically.
- ▶ Choose “On” to enable 3D function.
- ▶ Choose “Auto” to detected 3D signal automatically.

3D Invert

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

3D Format

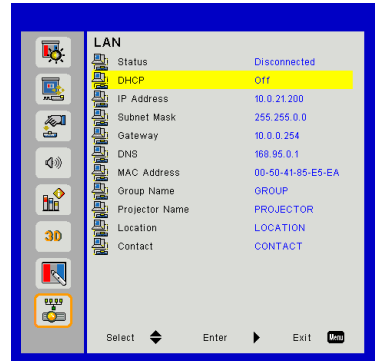
Use this feature to select the 3D format. Options are: “Frame Packing”, “Side-by-Side (Half)”, “Top and Bottom”, “Frame Sequential”, and “Field Sequential”.

1080p@24

Use this feature to select 96 or 144Hz refresh rate as using 3D glasses in the 1080p @ 24 frame packing.

User Controls

LAN



- ❖ IP, Subnet Mask, Gateway, and DNS configuration assignment please access to web control page. How to access web control page please refer to page 36.

Status

Display the network connection status.

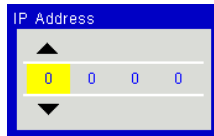
DHCP

Configure the DHCP settings.

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

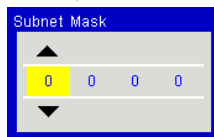
IP Address

Display an IP address.



Subnet Mask

Display the subnet mask number.



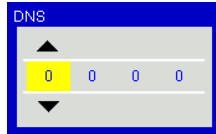
User Controls

Gateway

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

DNS

Display the DNS number.



MAC Address

Display the MAC address.

Group Name

Display the group name.

Projector Name

Display the projector name.

Location

Display the projector location.

Contact

Display the contact information.

User Controls

How to use web browser to control your projector

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

| | |
|-------------|---------------|
| Status | Connect |
| DHCP | Off |
| IP Address | 172.16.1.42 |
| Subnet Mask | 255.255.255.0 |
| Gateway | 172.16.1.254 |
| DNS | 172.16.1.1 |

2. Then choose apply and press **OK** button to complete the configuration process.

3. Open your web browser and type in IP Address from the OSD LAN screen then the web page will display as below:



4. Based on network web-page for the input-string in [tools] tab, the limitation for Input-Length is in the below list ("space" and the other punctuation key included):

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



❖ When you used the projector IP address, you will can not link to your service server.




User Controls

When making a direct connection from your computer to the projector

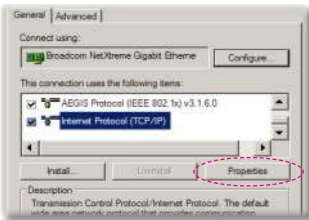
Step 1: Find an IP Address (192.168.0.100) from LAN function of projector.



Step 2: Select apply and press “Enter” button to submit function or press “menu” key to exit.

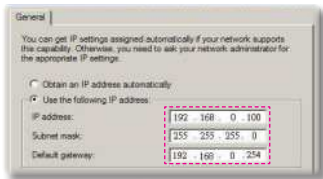
Step 3: To open Network Connections, click **Start**, click **Control Panel**, click **Network and Internet Connections**, and then click **Network Connections**. Click the connection you want to configure, and then, under **Network Tasks** , click **Change settings of this connection**.

Step 4: On the **General** tab, under **This connection uses the following items**, click **Internet Protocol (TCP/IP)**, and then click “Properties.”

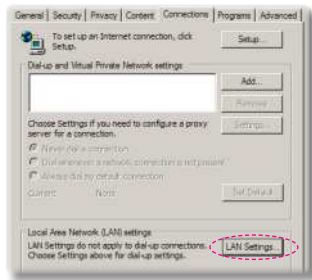


Step 5: Click **Use the following IP address**, and type in as below:

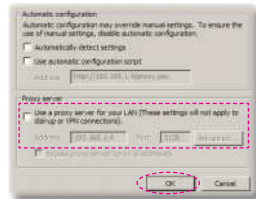
- 1) IP address: 192.168.0.100
- 2) Subnet mask: 255.255.255.0
- 3) Default gateway: 192.168.0.254



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



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



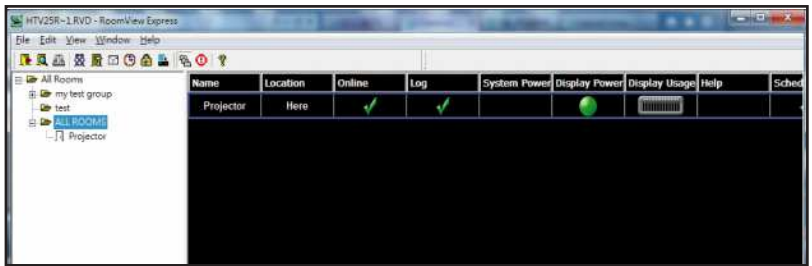
Step 8: Open your IE and type in the IP address of 192.168.0.100 in the URL then press “Enter” key.

User Controls

Crestron RoomView Control Tool

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

1. Main Screen



2. Edit Room



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

General | Groups | Attributes | Assets | Contacts | Events

Room Information

Name: crestron room Phone: _____

Location: _____ e-Control Link: _____ Browse...

IP Address: 192.168.0.101 Video Link: _____

IPID/IP Port: 03 | 41794

DHCP Enabled SSL

External Gateway Username: _____

0.0.0.0 Password: _____

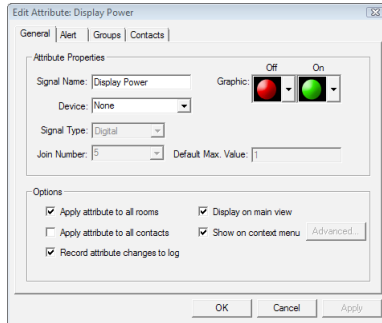
Comment

Save Room Save As Help

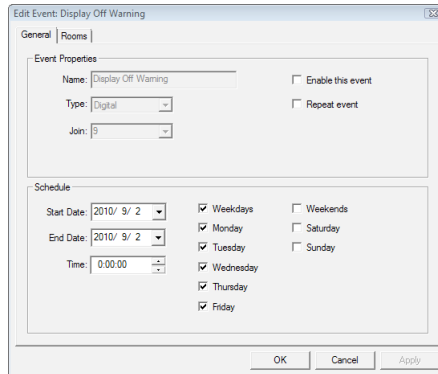
OK Cancel Apply

User Controls

3. Edit Attribute



4. Edit Event



For further information, please visit:

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

Multimedia

Accessing Multimedia Files

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

- Via Wireless dongle (optional) - wirelessly access the media files stored on your mobile phone, tablet PC, notebook, or desktop.
- Via USB flash drive - directly access the media files stored in the device.

How to access Multimedia mode

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

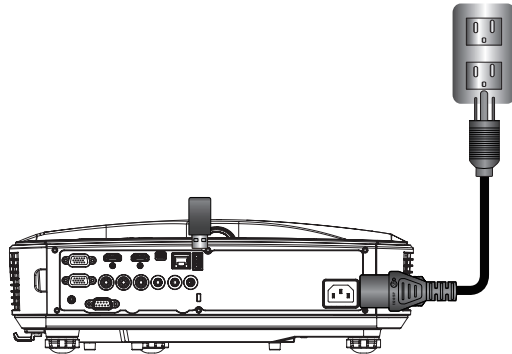


❖ In Multimedia source mode the keypad MENU key is used as EXIT key. User can press keypad "Power" key then press keypad "MENU" key to show MENU OSD in Multimedia source mode.

❖ When Auto Source is ON the system will search Multimedia source if user had ever chosen Multimedia source or it will skip Multimedia source.

❖ The projector will automatically restart the **Multimedia** system and back to Multimedia menu if there is no any action after few hours.

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



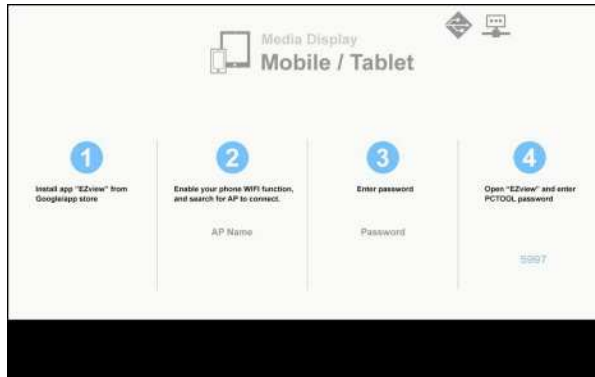
Mobile Display

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

1. On **Multimedia** menu, select **Mobile/Tablet**.



2. On your mobile device or tablet PC, download “EZ-View” application App Store (iOS) or Play Store (Android).



3. Enable your mobile device or tablet PC WiFi function, and search the AP name listed in the Wi-Fi network list.
4. The WIFI initial connection, you will be prompted to enter a password. Enter the password as screen AP Name as step2.
5. Launch “EZ-View” application and enter the PCTOOL password as step3
6. Wait until the connection is established. The media files on your mobile device or tablet PC can be accessed using the projector.

Multimedia

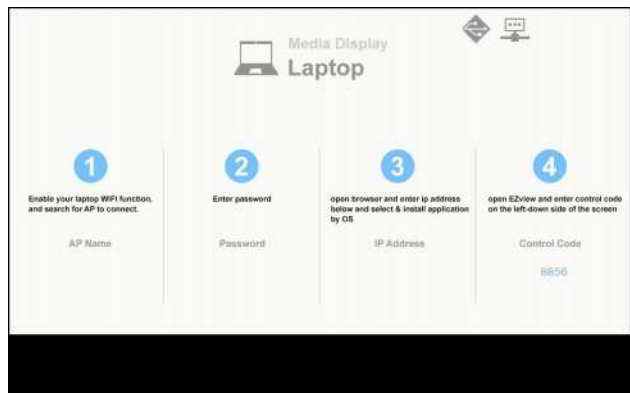
Laptop Display

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

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



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



3. On the WIFI initial connection, you will be prompted to enter a password. Enter the password as step2.
4. Open your web browser and enter the IP address under the same subnet. Then select "Wifi" on the left side of web page to install application required by the operation system.
5. After install completed. Launch "EZ-View" application and enter the control code shown on the right-bottom side of the screen.

6. Wait until the connection is established. The media files on your laptop/notebook can be accessed using the projector.

Desktop Display

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

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



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



Multimedia

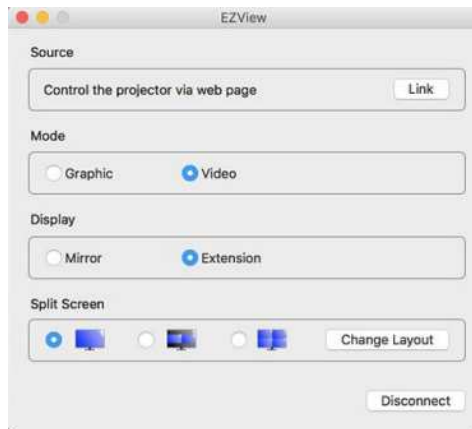
3. After install complete. Launch “EZ-View” application and enter the control code shown on the right-bottom side of the screen.
4. Wait until the connection is established. The media files on your desktop can be accessed using the projector.

EZ-View

1. Before opening the EZ-View application, user must input the password displayed on screen.
2. The application provides following function for image mirroring.
3. Mode selection: graphic mode provide slower refresh rate, better quality image. Video mode have better refresh performance to display video.
4. Display selection: can display desktop or extension desktop on your laptop or PC.
5. Split screen: can mirror different users on screen. Maximum number of screen is four.



- ❖ PowerPoint animations are not supported.
- ❖ Details about MMA support list please refer to Appendices.



USB Storage Display

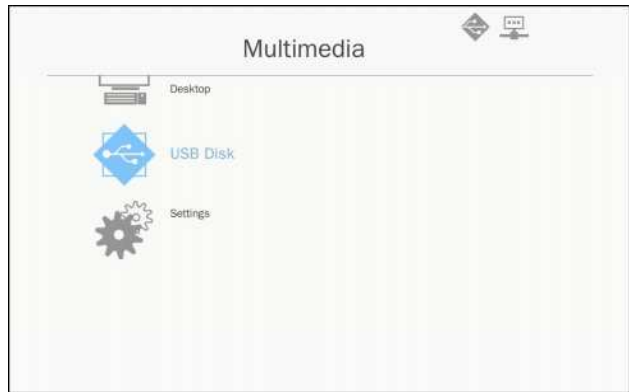
To access the media files stored on your USB flash drive, do the following:

Multimedia

Supported File Format

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

1. On **Multimedia** menu, select **USB Disk**. Sometimes selecting USB is slower. This is resulted from ready USB media.



2. Use the ▲▼ keys to select the file category and press the "Enter" key.



Multimedia

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











Photo

1. Select the Photo will enter to file list.
Use up, down, left, right key to select the picture.



2. Select one picture and push the enter key.
Push enter key to show the tool bar, push back key to display tool bar.
The tool bar includes whirling, full screen (keep the original ratio), previous image next image, slide show, delete, image information and exit.
User first press “Enter” key to select one of function on tool bar and then continue press the “Enter” to proceed different options on the function. Then press left/right to previous/next function. But when user selects rotation/zoom, user can press the “Enter” key to toggle between different options. User can press “Exit” key to leave the function.



| Functions | Defined |
|---|---|
|  | Degree change: 0, 90, 180, 270 Enter key looping Back key leave and no save function |
|  | Zoom in: x1, x2, x3, x4 Enter key looping In zoom in mode use arrow key to move content. Back key leave and no save function |
|  | Full screen Keep image ratio and no save function |
|  | Previous image |
|  | Next image |
|  | Slide show Press to start and re-press to stop |
|  | Delete from USB disk |
|  | Copy to internal memory Not support in this model |
|  | Information |
|  | Close tool bar |

Video

1. Select the Video will enter to file list
Use up and down key to select the video file.



Multimedia

2. Select the video file and push the enter key to play video.
Push enter key to show the tool bar, push back key to display tool bar.

| Functions | Key defined |
|--------------|--|
| reverse | left key |
| forward | right key |
| play/ pause | enter |
| display mode | only show the play mode was repeat or single To configure the play mode, user can reach to settings/Video/repeat mode to change the repeat mode |



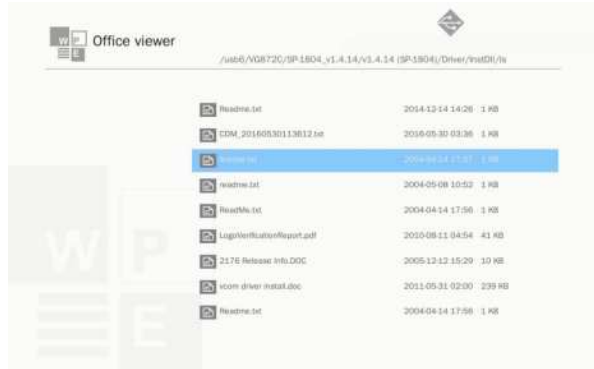
Music

1. Select the Music will enter to file list.
Use up and down key to select the audio file.








Multimedia


Office viewer

1. Select the office viewer will enter to file list.
Use up and down key to select the document file.



2. Select one document and push the enter key.
Push enter key to show the tool bar, push back key to display tool bar.
The tool bar includes screen pan, zoom in, zoom out, information.

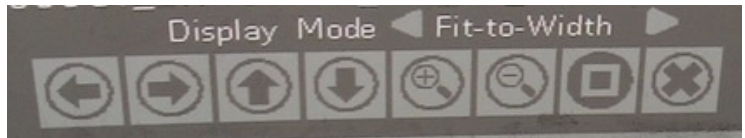
| Functions | Defined |
|---|---|
|  | Left shift content Enter key to use |
|  | Right shift content Enter key to use |
|  | UP shift content Enter key to use |
|  | Down shift content Enter key to use |
|  | Zoom in Enter key to use |
|  | Zoom out Enter key to use |
|  | Display mode Please see the note3 |

| | |
|---|------------------------------------|
|  | Close tool bar Enter key to use |
|---|------------------------------------|

*Note 1. The decode time depend how many objects embedded in document file, not depend the size of file.

*Note 2. Office viewer will set the display ratio by each document files.

*Note 3. Display mode behavior:

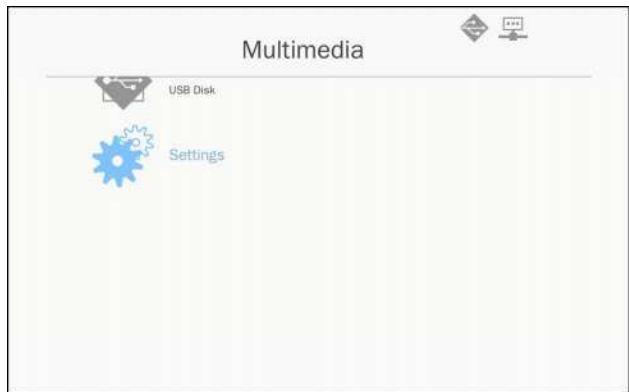


1. select display mode and press enter key, then use right/left key select "fit to screen, fit to high or fit to screen" and press enter key to confirm.
2. Enter Exit key to leave display mode, then use right/left key to select other functions.

Configuring Multimedia Settings

To change the settings, do the following:

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



2. Use the ▲ ▼ keys to select the desired menu option and press the "Enter" key to enter the submenu.

Multimedia

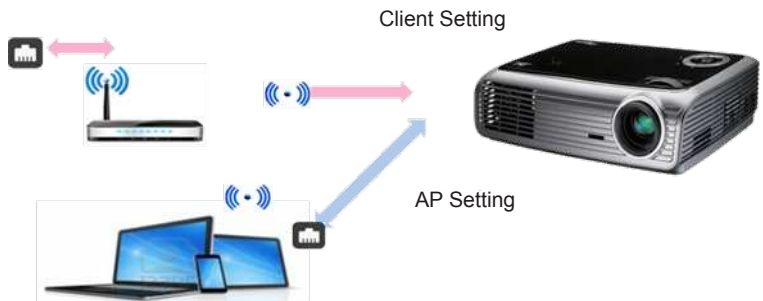


- ▶ System: Select this option to view the firmware version and update firmware.
- ▶ Video: Select this option to change the display ratio and set the repeat mode.
- ▶ Photo: Select this option to change the display ratio, slideshow pattern, and slideshow duration.
- ▶ Music: Select this option to set the repeat mode.
- ▶ WiFi: Select this option to configure the Wi-Fi connection.

3. Use the ▲▼ keys to select the adjust/select the setting and press the “Enter” key to confirm.

WiFi Setting

For configuring WIFI setting, user has to configure the AP setting and client mode setting. It relies on network topology illustrated as below.



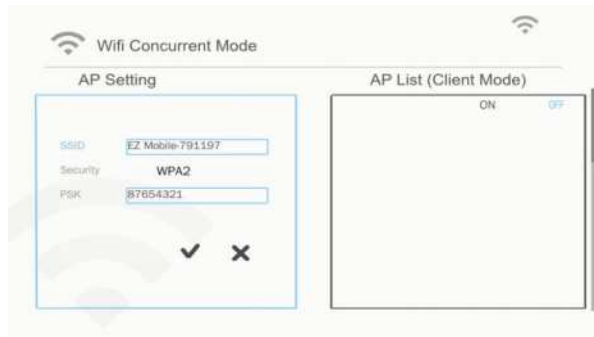
✓ AP setting

The AP setting defines the SSID between projector and user PC. The projector acts as a WIFI access point. PC/Laptops connects this WIFI access point can use the multimedia mirroring/streaming function with EZ-View software. This setting is similar with access point, user can define the SSID name, password here.

✓ Client mode setting.

In multimedia card, the projector can be as access point but also a client to public WIFI access point. In the other words, the projector has capability to wirelessly connect to internet. Similar with laptop connects to internet, user must defines password a select appropriate public access point. Projector and its access point users can connect to internet via WIFI connection. If projector already connects internet via RJ45, user can ignore the setting here.

User can use the left/right key to toggle the setting between the AP setting and client mode setting. Use up/down key to move to each item on the setting.

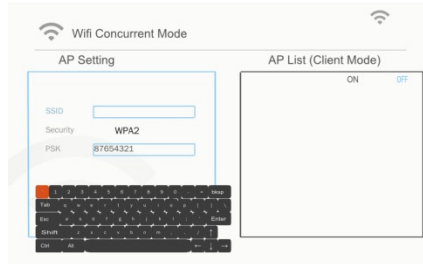


In the AP setting, user can define the SSID name, and defines the password in PSK item. Security item do not have capability to change, only WPA2 encryption is supported in AP mode.

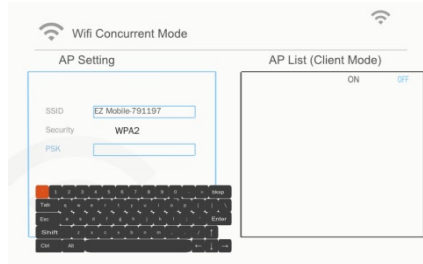
Multimedia

Following is the steps to configure the item.

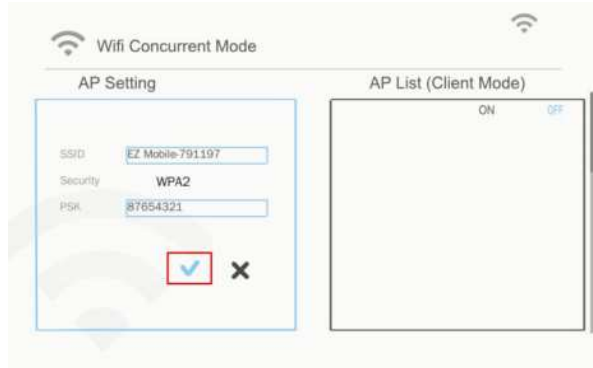
- 1) Use the up/down to control the blue focus to select SSID item then push enter key. A virtual keyboard will popup and the SSID will be cleared for user input. When input completed, press the exit key on remote control and navigate with up/down key to proceed previous/next item.



- 2) Use up/down key to reach PSK item. Then follow procedure as case 1 to input the PSK. 8 characters are required.

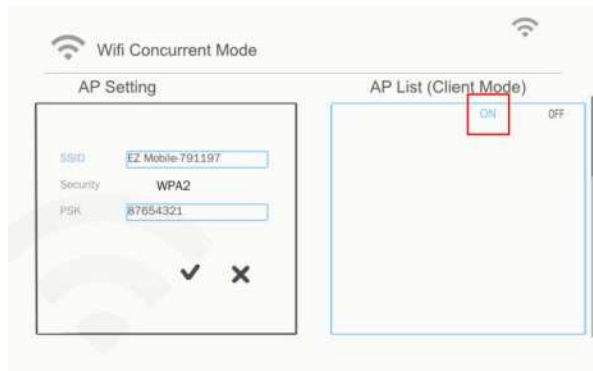


- 3) After that, move up/down key to select "V" then push enter key to finish AP setting. Projector media card will restart and need to wait couple of seconds. If you want to cancel configuration, move to "X" button and then push enter key. The SSID and PSK setting will drawback to original setting.



If projector needs to connect to internet with wireless, user has to configure the client mode. Using the right/left key to move the active window to client mode and configure with following procedures.

- 1) Use the up, down key to control the blue focus to select "on" for AP List(Client mode) then push enter key.

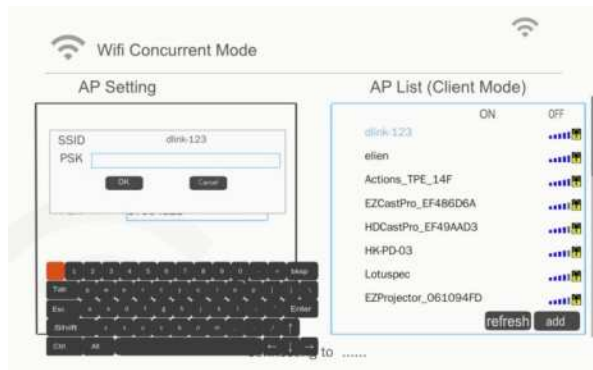


- 2) Using up/down key to choose the WIFI router which you want to connect and push enter key.

Multimedia



- 3) After choosing the access point, user has to input the password in left side PSK window and then select OK to proceed.



- 4) Connection status will display on bottom side and will show successful once connection is completed. Check sign on the access point will display as blue.



- ❖ For security reason, security item do not have capability to change, only WPA2 encryption is supported in AP mode. In client mode setting, WPA/WPA2 are supported.

The image displays two screenshots of a device's WiFi settings interface, showing the process of connecting to an AP in Client Mode.

Top Screenshot: The interface is titled "Wifi Concurrent Mode". It shows "AP Setting" on the left and "AP List (Client Mode)" on the right. The "AP Setting" section includes fields for SSID (EZ Mobile-791197), Security (WPA2), and PSK (87654321). The "AP List (Client Mode)" section shows a list of APs with their status (ON/OFF) and signal strength. The AP "dlink-123" is selected. A red box highlights the text "Connecting to dlink-123....." below the list.

Bottom Screenshot: The interface is the same as the top screenshot, but the "dlink-123" AP is now checked with a green checkmark. The text "Connect successfully ,soft_ap will re_start !" is displayed at the bottom of the screen.

Appendices

Installing and Cleaning the Optional Dust Filter

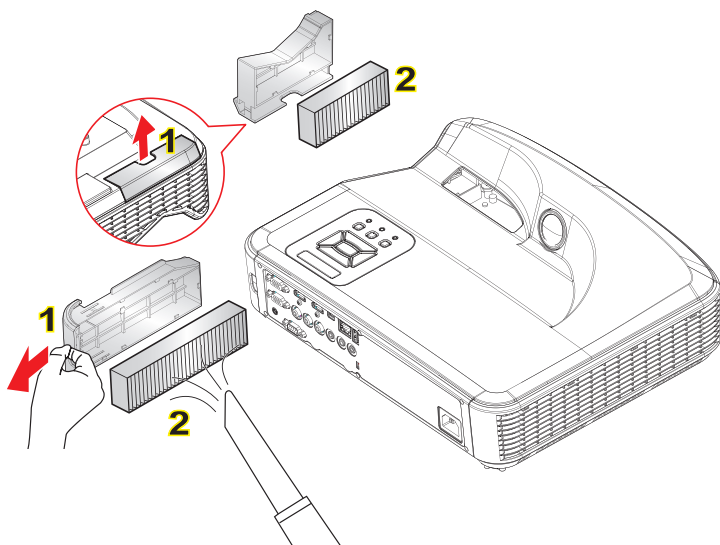
We recommend you clean the dust filter every 500 hours of operation, or more often if you are using the projector in a dusty environment.

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


The usage time of the dust filter is reached.
Please clean the dust filters for better performance.



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



○ Air Filter Cleaning Procedure: ○

1. Switch off the power to the projector by pressing the “” button.
 2. Disconnect the power cord.
 3. Pull out the dust filter, as shown in the illustration. **1**
 4. Carefully remove the dust filter. Then clean or change the filter. **2**
- To install the filter, reverse the previous steps.
5. Turn on the projector and reset the filter usage counter after the dust filter is replaced.

MMA Support List

Image

| Image Format | Profile | Color Space | Size Limitation |
|--------------|-------------|-------------|------------------------------------|
| JPEG | Baseline | YUV400 | 8000 x 6000 |
| | | YUV420 | 8000 x 6000 |
| | | YUV422 | 8000 x 6000 |
| | | YUV440 | 8000 x 6000 |
| | | YUV444 | 8000 x 6000 |
| | Progressive | YUV400 | Width <= 10240 & height <= 6400 |
| | | YUV420 | |
| | | YUV422 | |
| | | YUV440 | |
| | | YUV444 | |
| BMP | No Limit | No Limit | No Limit |

Audio

| Audio Format | Sample Rate (KHz) | Bit Rate (Kbps) |
|--------------|-------------------|-----------------|
| MP1/MP2/MP3 | 8-48 | 8-320 |
| WMA | 22-48 | 5-320 |
| OGG | 8-48 | 64-320 |
| ADPCM-WAV | 8-48 | 32-384 |
| PCM-WAV | 8-48 | 128-1536 |

Appendices

Video

| File Extensions | Audio/ Video | Codec | Profile/Level Support | Explanation |
|-----------------|--------------|------------------------------|--|---|
| .avi .mkv | Video | MJPEG | Up to 1080P 30fps 80Mbps | |
| | | H.264/AVC | Up to High Profile , Levels 1- 4.1 (1080P 30fps 25Mbps) | Support less than 6 reference frames |
| | | XVID | Up to Advance Simple profile (1080P 30fps 30Mbps) | |
| | | WMV3 (WMV Ver9) | Up to Main Profile; Low, Medium Level (1080P 30fps 25Mbps) | |
| | | MPEG2 | Main profile, Low and Main Levels (1080P 30fps 30Mbps) | |
| | | MPEG4 | Advanced Simple Profile (frame picture) , Levels 0-5 (1080P 30fps 30Mbps) | |
| .avi .mkv | Video | VC-1 | Simple and Main Profile; Low, Medium and High Levels (1080P 30fps 25Mbps) | Not Support VC-1 Advance Profile |
| | Audio | MPEG-1 Layer I, II | | |
| | | MPEG-1 Layer III (mp3) | | |
| | | PCM | | |
| | | ADPCM | | |

Appendices

| | | | | |
|-------------------------------|-------|------------------------|---|--------------------------------------|
| .ts | Video | MPEG2 | Main profile, Low and Main Levels (1080P 30fps 30Mbps) | |
| | | H.264/AVC | Up to High Profile , Levels 1- 4.1 (1080P 30fps 25Mbps) | Support less than 6 reference frames |
| .ts | Video | MPEG-1 Layer I, II | | |
| | | MPEG-1 Layer III (mp3) | | |
| | | LPCM | | |
| .dat .vob .mpg .mpeg | Video | MPEG1 | Main profile, Low and Main Levels (1080P 30fps 30Mbps) | D-picture not support |
| | | MPEG2 | Main profile, Low and Main Levels (1080P 30fps 30Mbps) | |
| | Audio | MPEG-1 Layer I, II | | |
| | | MPEG-1 Layer III (mp3) | | |
| | | LPCM | | |
| .mov .mp4 | Video | MPEG4 | Advanced Simple Profile (frame picture) , Levels 0-5 (1080P 30fps 30Mbps) | |
| | | H.264/AVC | Up to High Profile, Levels 1- 4.1 (1080P 30fps 25Mbps) | Support less than 6 reference frames |
| | Audio | AMR | | |
| | | PCM | | |
| | | ADPCM | | |

Appendices

| | | | | |
|------|-------|--------------------------|--|--------------------------|
| .wmv | Video | WMV3 (WMV Ver9) | Up to Main Profile; Low, Medium Level (1080P 30fps 25Mbps) | |
| | Audio | WMA2 (WMA Ver9 & Ver9.1) | | Not Support WMA Ver9 Pro |

Subtitle

| Format | Font | Subtitle Size |
|--------------|----------------|------------------------|
| Standard SRT | UTF-8 / UTF-16 | 8bits up to 1280 x 800 |
| SMI | | |
| SSA/ASS | | |

Note: DO NOT support mixed code in subtitle files.

Office Viewer

| File Format | Support Version | Pages/ Lines Limitation | Size Limitation | Comment |
|--|--|-----------------------------|-----------------|-----------------------------|
| Adobe PDF | PDF 1.0 | Up to 1000 pages (One File) | Up to 75MB | |
| | PDF 1.1 | | | |
| | PDF 1.2 | | | |
| | PDF 1.3 | | | |
| | PDF 1.4 | | | |
| MS PowerPoint | British PowerPoint 97. | Up to 1000 pages (One File) | Up to 19MB | No support Slide Show order |
| | PowerPoint 2000, 2002, 2003. | | | |
| | PowerPoint 2007(.pptx). | | | |
| | PowerPoint 2010(.pptx),. | | | |
| | Office XP PowerPoint. | | | |
| | PowerPoint presentation-2003 and earlier(.ppx) | | | |
| PowerPoint presentation-2007 and 2010(.ppsx) | | | | |

Appendices

| | | | | |
|----------|----------------------------------|--|-------------|---|
| MS Word | British Word95 | Because office viewer does not load all pages of MS Word file at the same time, there are no obvious limitations of page and line. | Up to 100MB | Not support Bold Text in Simple Chinese front |
| | Word97, 2000, 2002, 2003 | | | |
| | Word 2007 (.docx), 2010 (.docx) | | | |
| MS Excel | British Excel 95 | Row Limit: up to 595 | Up to 15MB | Not support password-protected sheets |
| | Excel 97, 2000, 2002, 2003 | Row Limit: up to 595 | | |
| | Excel 2007 (.xlsx), 2010 (.xlsx) | Sheet: up to 100 | | |
| | Office XP Excel | | | |

Note: Any one of three limitations above can not appear on one excel file simultaneously

Storage

| Storage | Device type | File system | File&Dir Level |
|-----------------|--|-----------------------------------|--|
| Internal Memory | TLC/MLC/SLC 8/12/24/40/60 bit ECC NAND | FAT16, FAT32 NTFS, ExFAT | Support Max 999 directories and Max 9,999 Files Support at most 10th level directory |
| USB | USB Flash,USB-HardDisk | | |
| SD Card | SDHC,SDXC | | |

Not recommend to connect with the Portable Hard Drive over 250GB

Appendices

Compatibility Modes

▶ VGA Analog

| a. PC signal | | | |
|---------------|------------|-------------------|-------------------|
| Modes | Resolution | V. Frequency [Hz] | H. Frequency [Hz] |
| VGA | 640x480 | 60 | 31.5 |
| | 640x480 | 67 | 35.0 |
| | 640x480 | 72 | 37.9 |
| | 640x480 | 75 | 37.5 |
| | 640x480 | 85 | 43.3 |
| | 640x480 | 120 | 61.9 |
| IBM | 720x400 | 70 | 31.5 |
| SVGA | 800x600 | 56 | 35.1 |
| | 800x600 | 60 | 37.9 |
| | 800x600 | 72 | 48.1 |
| | 800x600 | 75 | 46.9 |
| | 800x600 | 85 | 53.7 |
| | 800x600 | 120 | 77.4 |
| Apple, MAC II | 832x624 | 75 | 49.1 |
| XGA | 1024x768 | 60 | 48.4 |
| | 1024x768 | 70 | 56.5 |
| | 1024x768 | 75 | 60.0 |
| | 1024x768 | 85 | 68.7 |
| | 1024x768 | 120 | 99.0 |
| Apple, MAC II | 1152x870 | 75 | 68.7 |
| SXGA | 1280x1024 | 60 | 64.0 |
| | 1280x1024 | 72 | 77.0 |
| | 1280x1024 | 75 | 80.0 |
| QuadVGA | 1280x960 | 60 | 60.0 |
| | 1280x960 | 75 | 75.2 |
| SXGA+ | 1400x1050 | 60 | 65.3 |
| UXGA | 1600x1200 | 60 | 75.0 |

Appendices

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

Appendices

▶ HDMI Digital

| a. PC signal | | | |
|---------------|------------|-------------------|-------------------|
| Modes | Resolution | V. Frequency [Hz] | H. Frequency [Hz] |
| VGA | 640x480 | 60 | 31.5 |
| | 640x480 | 67 | 35.0 |
| | 640x480 | 72 | 37.9 |
| | 640x480 | 75 | 37.5 |
| | 640x480 | 85 | 43.3 |
| | 640x480 | 120 | 61.9 |
| IBM | 720x400 | 70 | 31.5 |
| SVGA | 800x600 | 56 | 35.1 |
| | 800x600 | 60 | 37.9 |
| | 800x600 | 72 | 48.1 |
| | 800x600 | 75 | 46.9 |
| | 800x600 | 85 | 53.7 |
| | 800x600 | 120 | 77.4 |
| Apple, MAC II | 832x624 | 75 | 49.1 |
| XGA | 1024x768 | 60 | 48.4 |
| | 1024x768 | 70 | 56.5 |
| | 1024x768 | 75 | 60.0 |
| | 1024x768 | 85 | 68.7 |
| | 1024x768 | 120 | 99.0 |
| Apple, MAC II | 1152x870 | 75 | 68.7 |
| SXGA | 1280x1024 | 60 | 64.0 |
| | 1280x1024 | 72 | 77.0 |
| | 1280x1024 | 75 | 80.0 |
| QuadVGA | 1280x960 | 60 | 60.0 |
| | 1280x960 | 75 | 75.2 |
| SXGA+ | 1400x1050 | 60 | 65.3 |
| UXGA | 1600x1200 | 60 | 75.0 |

Appendices

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

Appendices

RS232 Protocol Function List

| | | A. VGA Analog | | | |
|---------------|--------------------|---------------------------------|--------------------------|------------------------|--|
| | | (1) PC Signal | | | |
| Modes | Resolution | V.Frequency [Hz] | H.Frequency [KHz] | Pixel CLK [MHz] | EDID Description |
| VGA | 640x480 | 60 | 31.5 | 25..2 | Established Timings 1 |
| | 640x480 | 67 | 35.0 | 26.8 | Established Timings 1 |
| | 640x480 | 72 | 37.9 | 31.5 | Established Timings 1 |
| | 640x480 | 75 | 37.5 | 31.5 | Established Timings 1 |
| | 640x480 | 85 | 43.3 | 36.0 | |
| IBM SVGA | 720x400 | 70 | 31.5 | 28.3 | Established Timings 1 |
| | 800x600 | 56 | 35.1 | 36.0 | Established Timings 1 |
| | 800x600 | 60 | 37.9 | 40.0 | Established Timings 1 |
| | 800x600 | 72 | 48.1 | 50.0 | Established Timings 2 |
| | 800x600 | 75 | 46.9 | 49.5 | Established Timings 2 |
| | 800x600 | 85 | 53.7 | 56.3 | |
| Apple, Mac II | 832x624 | 75 | 49.1 | 57.3 | Established Timings 2 |
| XGA | 1024x768 | 60 | 48.4 | 65.0 | WXGA: Established Timings 2 XGA: Established Timings 2 and (Native)DetailedTiming / Descriptor Block 1 |
| | 1024x768 | 70 | 56.5 | 75.0 | Established Timings 2 |
| | 1024x768 | 75 | 60.0 | 78.8 | Established Timings 2 |
| | 1024x768 | 85 | 68.7 | 94.5 | |
| | 1024x768 | 120 | 99.0 | 137.8 | Standard Timing Identification |
| Apple, Mac II | 1152x870 | 75 | 68.7 | 100.0 | Manufacturer's Reserved Timing |
| SXGA | 1280x1024 | 60 | 64.0 | 108.0 | |
| | 1280x1024 | 72 | 77.0 | 133.0 | |
| | 1280x1024 | 75 | 80.0 | 135.0 | Established Timings 2 |
| QuadVGA | 1280x960 | 60 | 60.0 | 101.3 | Standard Timing Identification |
| | 1280x960 | 75 | 75.2 | 130.0 | |
| SXGA+ | 1400x1050 | 60 | 65.3 | 121.8 | |
| UXGA | 1600x1200 | 60 | 75.0 | 161.0 | Standard Timing Identification |
| | | (2) Extended Wide timing | | | |
| WXGA | 1280x720 | 60 | 44.8 | 74.2 | Standard Timing Identification |
| | 1280x800 | 60 | 49.6 | 83.5 | WXGA: (Native)DetailedTiming/DescriptorBlock1 XGA: Standard Timing Identification |
| | 1366x768 | 60 | 47.7 | 84.8 | |
| | 1440x900 | 60 | 59.9 | 106.5 | Standard Timing Identification |
| WSXGA+ | 1680x1050 | 60 | 65.3 | 146.3 | WXGA: Standard Timing Identification XGA: N/A |
| | 1920x720 | 60 | 44.35 | 92.25 | |
| | | (3) Component Signal | | | |
| 480i | 720x480 (1440x480) | 59.94(29.97) | 15.7 | 13.5 | |
| 576i | 720x576 (1440x576) | 50(25) | 15.6 | 13.5 | |
| 480p | 720x480 | 59.94 | 31.5 | 27.0 | |
| 576p | 720x576 | 50 | 31.3 | 27.0 | |
| 720p | 1280x720 | 60 | 45.0 | 74.25 | |
| 720p | 1280x720 | 50 | 37.5 | 74.25 | |
| 1080i | 1920x1080 | 60(30) | 33.8 | 74.25 | |
| 1080i | 1920x1080 | 50(25) | 28.1 | 74.25 | |
| 1080p | 1920x1080 | 23.98/24 | 27.0 | 74.25 | |
| 1080p | 1920x1080 | 60 | 67.5 | 148.5 | |
| 1080p | 1920x1080 | 50 | 56.3 | 148.5 | |
| | | B. HDMI Digital | | | |
| | | (1) PC Signal | | | |
| VGA | 640x480 | 60 | 31.5 | 25..2 | Established Timings 1 |
| | 640x480 | 67 | 35.0 | 26.8 | Established Timings 1 |
| | 640x480 | 72 | 37.9 | 31.5 | Established Timings 1 |

Appendices

| | | | | | |
|---|--------------------|--------------|-------|-------|---|
| | 640x480 | 75 | 37.5 | 31.5 | Established Timings 1 |
| | 640x480 | 85 | 43.3 | 36.0 | |
| IBM | 720x400 | 70 | 31.5 | 28.3 | Established Timings 1 |
| SVGA | 800x600 | 56 | 35.1 | 36.0 | Established Timings 1 |
| | 800x600 | 60 | 37.9 | 40.0 | Established Timings 1 |
| | 800x600 | 72 | 48.1 | 50.0 | Established Timings 2 |
| | 800x600 | 75 | 46.9 | 49.5 | Established Timings 2 |
| | 800x600 | 85 | 53.7 | 56.3 | |
| Apple, Mac II | 832x624 | 75 | 49.1 | 57.3 | Established Timings 2 |
| XGA | 1024x768 | 60 | 48.4 | 65.0 | WXGA: Established Timings 2 XGA: Established Timings 2 and (Native)Detailed Timing / Descriptor Block 1 |
| | 1024x768 | 70 | 56.5 | 75.0 | Established Timings 2 |
| | 1024x768 | 75 | 60.0 | 78.8 | Established Timings 2 |
| | 1024x768 | 85 | 68.7 | 94.5 | |
| | 1024x768 | 120 | 99.0 | 137.8 | Standard Timing Identification |
| Apple, Mac II | 1152x870 | 75 | 68.7 | 100.0 | Manufacturer's Reserved Timing |
| SXGA | 1280x1024 | 60 | 64.0 | 108.0 | |
| | 1280x1024 | 72 | 77.0 | 133.0 | |
| | 1280x1024 | 75 | 80.0 | 135.0 | Established Timings 2 |
| QuadVGA | 1280x960 | 60 | 60.0 | 101.3 | Standard Timing Identification |
| | 1280x960 | 75 | 75.2 | 130.0 | |
| SXGA+ | 1400x1050 | 60 | 65.3 | 121.8 | |
| UXGA | 1600x1200 | 60 | 75.0 | 161.0 | Standard Timing Identification |
| (2) Extended Wide timing | | | | | |
| WXGA | 1280x720 | 60 | 44.8 | 74.2 | Standard Timing Identification |
| | 1280x800 | 60 | 49.6 | 83.5 | WXGA: (Native)DetailedTiming/DescriptorBlock1 XGA: Standard Timing Identification |
| | 1366x768 | 60 | 47.7 | 84.8 | |
| | 1440x900 | 60 | 59.9 | 106.5 | Standard Timing Identification |
| WSXGA+ | 1680x1050 | 60 | 65.3 | 146.3 | WXGA: Standard Timing Identification XGA: N/A |
| | 1920x720 | 60 | 44.35 | 92.25 | |
| (3) HDMI - Video Signal | | | | | |
| 640x480p | 640x480 | 59.94/60 | 31.5 | 25.2 | Short Video Descriptor of CEA EDID Timing |
| 480i | 720x480 (1440x480) | 59.94(29.97) | 15.7 | 13.5 | Short Video Descriptor of CEA EDID Timing |
| 576i | 720x576 (1440x576) | 50(25) | 15.6 | 13.5 | Short Video Descriptor of CEA EDID Timing |
| 480p | 720x480 | 59.94 | 31.5 | 27.0 | Short Video Descriptor of CEA EDID Timing |
| 576p | 720x576 | 50 | 31.3 | 27.0 | Short Video Descriptor of CEA EDID Timing |
| 720p | 1280x720 | 60 | 45.0 | 74.25 | (Native)Short Video Descriptor of CEA EDID Timing |
| 720p | 1280x720 | 50 | 37.5 | 74.25 | (Native)Short Video Descriptor of CEA EDID Timing |
| 1080i | 1920x1080 | 60(30) | 33.8 | 74.25 | Short Video Descriptor of CEA EDID Timing |
| 1080i | 1920x1080 | 50(25) | 28.1 | 74.25 | Short Video Descriptor of CEA EDID Timing |
| 1080p | 1920x1080 | 23.98/24 | 27.0 | 74.25 | Short Video Descriptor of CEA EDID Timing |
| 1080p | 1920x1080 | 60 | 67.5 | 148.5 | Short Video Descriptor of CEA EDID Timing |
| 1080p | 1920x1080 | 50 | 56.3 | 148.5 | Short Video Descriptor of CEA EDID Timing |
| (4) HDMI 1.4a mandatory 3D timing- Video Signal | | | | | |
| Frame Packing | 720p | 50 | | | Short Video Descriptor of CEA EDID Timing |
| | 720p | 59.94/60 | | | Short Video Descriptor of CEA EDID Timing |
| | 1080p | 23.98/24 | | | Short Video Descriptor of CEA EDID Timing |
| Side-by-Side | 1080i | 50 | | | Short Video Descriptor of CEA EDID Timing |
| | 1080i | 59.94/60 | | | Short Video Descriptor of CEA EDID Timing |
| Top-and-Bottom | 720p | 50 | | | Short Video Descriptor of CEA EDID Timing |
| | 720p | 59.94/60 | | | Short Video Descriptor of CEA EDID Timing |
| | 1080p | 23.98/24 | | | Short Video Descriptor of CEA EDID Timing |
| (5) Input signal frequency range | | | | | |
| Analog: fh=15kHz ~ 100kHz, fv=24Hz ~ 120Hz, Max. pixel rate: 162.5MHz | | | | | |
| Digital (HDMI): fh=15kHz ~ 100kHz, fv=24Hz ~ 120Hz, Max. pixel rate: 200MHz | | | | | |

Appendices

Regulation & Safety Notices

This appendix lists the general notices of your projector.

FCC notice

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

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

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

Notice: Shielded cables

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

Caution

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

Operation conditions

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

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

Notice: Canadian users

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

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

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

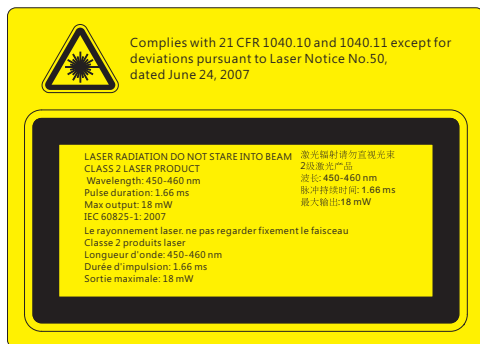
Disposal instructions



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

Appendices

Safety notice



WARNING

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

Ceiling Mount Installation

1. To prevent damage to your projector, please use the Optoma ceiling mount.
2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attach a mount to the projector meet the following specifications:

- ▶ Screw type: M4*3
- ▶ Minimum screw length: 10mm

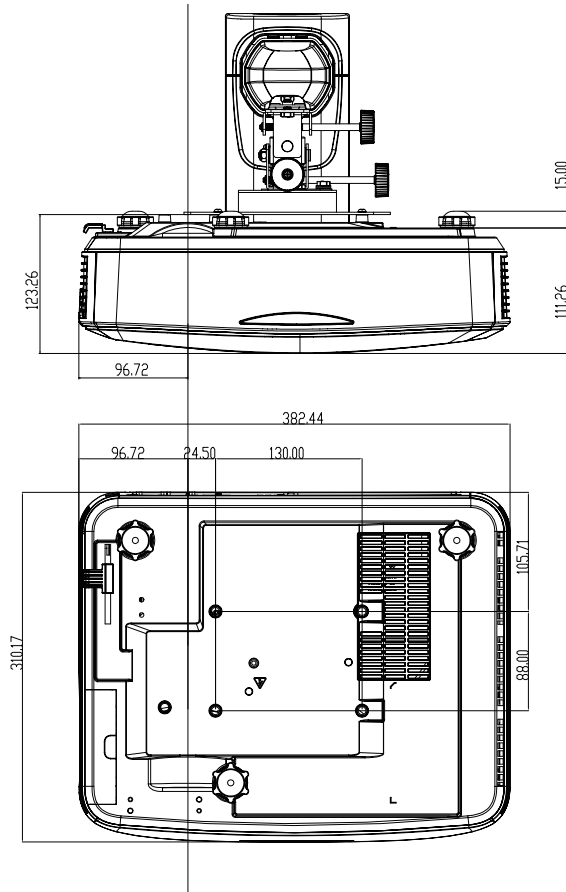


❖ Please note that damage resulting from incorrect installation will void the warranty.



⚠ Warning:

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






Appendices

Optoma global offices

For service or support, please contact your local office.




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