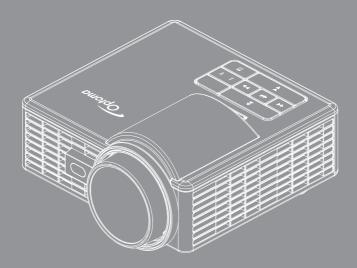


DLP[®] Projector



User manual





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Safety Instructions



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

- 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.
- 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. Please call Optoma before you send the unit for repair.

- 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.

Intended Use Statement

- Operation temperature:
 - For 0 2500 ft, 5 °C ~ 40 °C
 - For 2500 5000 ft, 5 °C ~ 35 °C
 - For 5000 10000 ft, 5 °C ~ 30 °C
- Maximum Humidity:
 - Operating: 10%~80%RH (Max.), Non-condensing
 - Storage: 5%~95% RH, Non-condensing

The ambient operating environment should be free of airborne smoke, grease, oil and other contaminants that can affect the operation or performance of the projector.

Use of this product in adverse conditions will void the product warranty.

Safety Information

Please read, understand, and follow all safety information contained in these instructions prior to the use of this projector. Retain these instructions for future reference.

| E | Explanation of Signal Word Consequences | | | |
|-------------------|---|--|--|--|
| ⊥ Marning: | Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury and/or property damage. | | | |
| ▲ Caution: | Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury and/or property damage. | | | |
| A Warning: | Hazardous voltage | | | |

A Warning

To reduce the risk associated with hazardous voltage:

- Do not modify this product in any way.
- Do not attempt to service this projector.
- There are no user-serviceable parts. Service to be performed only by a Optoma authorized service provider using Optoma approved system components.
- Do not use the wall power supply in a wet environment.
- Do not use with a damaged wall power supply. Replace damaged part prior to use.

To reduce the risk associated with fire and explosion:

- Do not immerse the projector in any liquid or allow either to get wet.
- Use only Optoma approved power supply.

To reduce the risks associated with choking:

• Keep all small parts like the remote control battery away from young children and pets.

To reduce the risk associated with hazardous voltage, impact, tripping, and intense visible light:

• Do not use this projector around unsupervised children.

A Caution

To reduce the risks associated with hearing loss:

- Be sure to read earphone manufacturer's instructions with respect to volume level.
- User is responsible to set a safe volume level.

To reduce the risk associated with explosion, and/or chemicals from a leaking batteries:

- Use only with battery type CR2025.
- Orient the battery's plus (+) and minus (-) terminals of the batteries according to the markings found on the remote control.
- Do not leave the battery in the remote for an extended period of time.
- Do not heat or expose the battery to fire.
- Do not disassemble, short, or recharge battery
- Do not carry batteries loose in your pocket or purse.
- Avoid eye and skin contact in the event that battery leaks.
- Do not recharge the battery near a heat source or in extremely hot conditions.

To reduce the risk associated with environmental contamination:

• Dispose of all system components in accordance with applicable government regulations.

To reduce the risks associated with LED bright light:

• Do not stare directly into the projector lens.

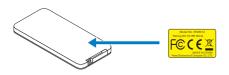
To reduce the risks associated with tripping and falling:

Position the charging cord and data cables so that they are not a tripping hazard.

Important Note: Do not expose the projector to direct sunlight in a closed space such as a vehicle.

SAVE THESE INSTRUCTIONS

Safety Labels



Remote Control Model No. IR28012

Trademarks

Optoma and the Optoma logo are trademarks of Optoma Company. Adobe and the Adobe logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries. Microsoft, PowerPoint, and Excel are registered trademarks of Microsoft Corporation. microSD and microSDHC are trademarks of the SD Association.

All other trademarks or registered trademarks are property of their respective companies.

Video and Audio Decoder Notices

MPEG-4 NOTICE

This product is licensed under the mpeg-4 visual patent portfolio license for the personal and non-commercial use of a consumer for (i) encoding video in compliance with the mpeg-4 visual standard ("mpeg-4 video") and/or (ii) decoding mpeg-4 video that was encoded by a consumer engaged in a personal and noncommercial activity and/or was obtained from a video provider licensed by mpeg la to provide mpeg-4 video. No license is granted or shall be implied for any other use. Additional information including that relating to promotional, internal and commercial uses and licensing may be obtained from mpeg la, Ilc. See http://www.mpegla.com.

AVC VIDEO NOTICE

This product is licensed under the avc patent portfolio license for the personal and noncommercial use of a consumer to (i) encode video in compliance with the avc standard ("avc video") and/or (ii) decode avc video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide avc video. No license is granted or shall be implied for any other use. Additional information may be obtained from mpeg la, I.L.C. See <u>http://www.mpegla.com</u>.

MPEG LAYER-3 NOTICE

Supply of this product does not convey a license nor imply any right to distribute MPEG Layer-3 compliant content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), streaming applications (via Internet, intranets and/or other networks), other content distribution systems (pay-audio or audio-ondemand applications and the like) or on physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required.

For details, please visit <u>http://mp3licensing.com</u>.

Regulatory Notices

FCC STATEMENT - CLASS B

This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual may cause interference to radio communications. It has been tested and found to comply with the limits for a Class "B" computing device pursuant to Subpart B of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a residential installation. 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.

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

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

Industry Canada regulatory information

Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions.

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

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

INSTRUCTIONS TO USERS: This equipment complies with the requirements of FCC equipment provided that the following conditions are met. If the cables include a EMI ferrite core, attach the ferrite core end of the cable to the projector. Use the cables which are included with the projector or specified.

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

Complies with IDA Standards DA103121

CE Statement

ElectroMagnectic Compatibility Statement: Meets 2004/108/EC Directive Low Voltage Directive: Meets 2006-95-EC Directive.

WEEE Statement

The following information is only for EU-members States:

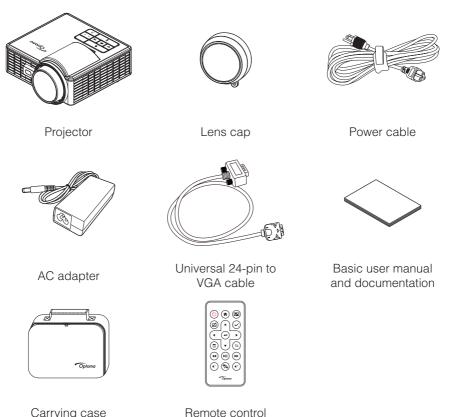
The mark shown to the right is in compliance with Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE). The mark indicates the requirement NOT to dispose the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



Introduction

Package Contents

Your projector comes with all the items shown below. Ensure that you have all the items, and contact your local reseller or service center if anything is missing.

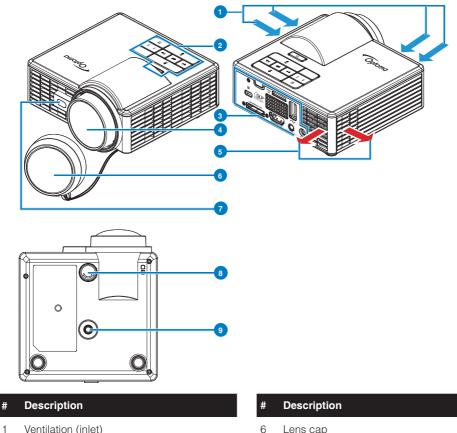


Carrying case

Note: The remote control is shipped with battery.

About Your Projector

Main Unit



- Ventilation (inlet) 1
- 2 Control panel
- Input / Output connections 3
- 4 Lens
- Ventilation (outlet) 5

Note:

- Do not block projector intake and exhaust vents.
- When operating the projector in an enclosed space, allow at least 15cm clearance around the intake and exhaust vents.

7

8

9

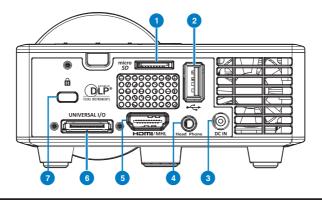
Lens cap

Tilt adjusting wheel

Screw hole for tripod

Laser sensor for detecting auto focus

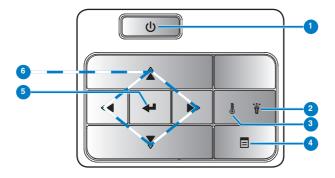
Input / Output Connections



Description

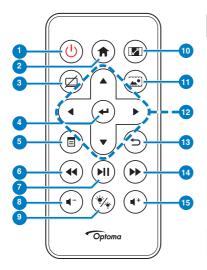
- 1 MicroSD card slot
- 2 USB Type A connector
- 3 DC input connector
- 4 Head phone connector
- 5 HDMI / MHL connector
- 6 Universal I/O connector
- 7 Security cable slot

Control Panel



| # | Name | Description |
|---|---------------------------------|--|
| 1 | Power | Turns the projector on or off. |
| 2 | Error LED | Error LED is solid amber, one of the LED has failed. The projector will automatically shut down. |
| 3 | Temp LED | If the TEMP amber indicator is blinking, one of the following problems could be occurring:Internal temperature of the projector is too high.The fans has failed. |
| 4 | Menu | Press to activate the OSD. Use the directional keys and the Menu button to navigate through the OSD. |
| 5 | Enter | Press to confirm the selection item. |
| 6 | Four Directional Select Keys | Press to navigate through the On-Screen Display (OSD) Menu items. |

Remote Control



| # | Name | Description |
|------|------------------------|--|
| 1 | Power 🕑 | Turns the projector on or off. |
| 2 | Home 🕥 | Press to return to the home page. |
| 3 | Mute | Press to mute/unmute audio and/or video depending on the chosen mute option in the OSD menu (Main > Setup > Advanced > Mute). |
| 4 | Enter 🕑 | Press to confirm the selection. |
| 5 | Menu 🗐 | Press to activate the OSD. |
| 6 | Rewind | Press to search backward. |
| 7 | Play/Pause 🗐 | Press to play/pause media file. |
| 8 | Volume down 🖝 | Press to decrease the volume. |
| 9 | LED mode 🛞 | Allows you to select the display mode. |
| 10 | Aspect ratio 💌 | Press to change aspect ratio of a displayed image. |
| 11 | Media mode ഭ | Press to change Input Source to Media. |
| 12 | Up/Down/Left/ Right | Press to navigate through the On-Screen Display (OSD) Menu items. |
| 13 | Back (5) | Press to return to the previous page. |
| 14 | Fast Forward 🏵 | Press to search forward. |
| 15 | Volume up 🔹 | Press to increase the volume. |
| Note | Home and Back | buttons can be used only in Media |

Note: Home and Back buttons can be used only in Media mode.

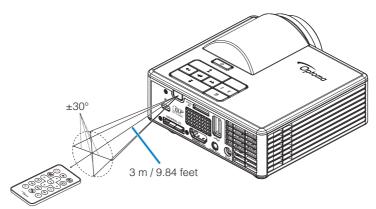
Installing the Remote Control Battery

- 1. Remove the battery holder by holding down the side release firmly and pulling out the battery holder.
- 2. Insert a CR2025 coin cell battery and align the polarity correctly according to the marking in the battery holder.

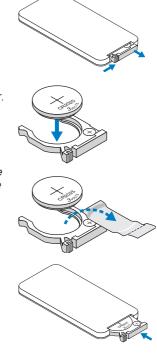
Note: When you use the remote control for the first time, there is a plastic sheet between the battery and its contact. Remove the sheet before use.

3. Replace the battery holder.

Operating Range with Remote Control

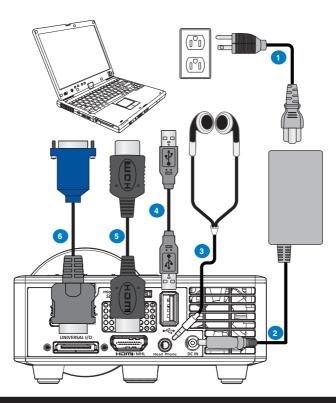


Note: Actual operating range may slightly differ from the diagram. Additionally, a weak battery reduces or eliminates the operating range of the remote control.



Installation

Connecting to a Computer



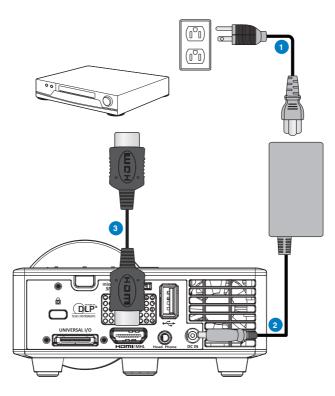
Description

- 1 Power cord
- 2 AC adapter
- 3 Audio cable (*1)
- 4 USB-A to USB-A cable (*2)
- 5 HDMI cable (*2)
- 6 Universal 24-pin to VGA cable

Note:

- (*1)The projector supports only TRS-type audio cables (without microphone function); with some headsets, due to the impedance difference, you might notice a slight difference in the volume levels (lower volume).
- (*2)The accessory is not shipped with your projector.

Connecting to a DVD Player

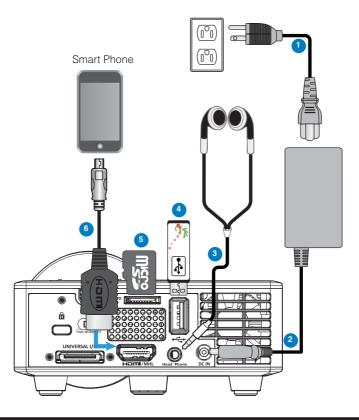


Description

- 1 Power cord
- 2 AC adapter
- 3 HDMI cable (*2)

Note: (*2)The accessory is not shipped with your projector.

Connecting to Multi-Media



Description

- 1 Power cord
- 2 AC adapter
- 3 Audio cable(*1)
- 4 USB flash disk (*2)
- 5 MicroSD card (*2)
- 6 MHL cable (*2)

Note:

- (*1)The projector supports only TRS-type audio cables (without microphone function); with some headsets, due to the impedance difference, you might notice a slight difference in the volume levels (lower volume).
- (*2)The accessory is not shipped with your projector.

Turning On/Off the Projector

Turning Your Projector On

Note: Turn on the projector before you turn on the source (computer, DVD player, etc.). The **Power** button light blinks amber until pressed.

- 1. Connect the power cord with AC adapter and appropriate signal cables to the projector.
- 2. Remove the lens cap.
- 3. Press the **Power** button.
- 4. Turn on your source (computer, DVD player, etc).
- 5. Connect your source to the projector using the appropriate cable.
- 6. The input source is determined by the last connected input source. (By default, the input source of the projector is set to Multimedia). Change the input source of the projector if necessary.

Turning Your Projector Off

Note: The "Press Power Button to Turn Off Projector" message will appear on the screen. The message disappears after 5 seconds or you can press the **Menu** button to clear it.

- 1. Press the **Power** button. Follow the instruction displayed on screen to properly turn off the projector.
- 2. Press the **Power** button again. The cooling fans continue to operate for 3~5 seconds.
- 3. Disconnect the power cord and AC adapter from the electrical outlet and the projector.

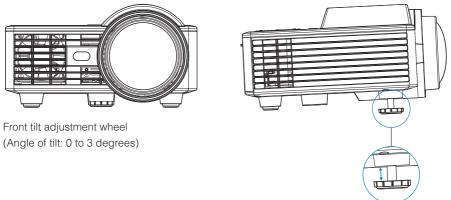
Adjusting the Projected Image

Raising the Projector Height

Raise the projector to the desired display angle, and use the front tilt adjustment wheel to fine-tune the display angle.

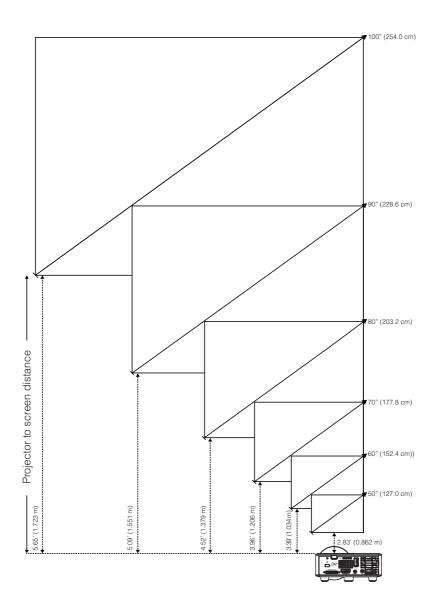
Lowering the Projector Height

Lower the projector, and use the front tilt adjustment wheel to fine-tune the display angle.



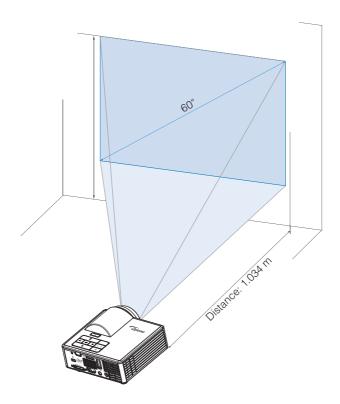
Important Note: To avoid damaging the projector, ensure that the adjustment wheels are fully retracted before moving the projector or placing the projector in its carrying case.

Adjusting Projection Image Size



| | Screen Size | | Distance |
|-----------------|-----------------|-----------------|-----------------|
| Diagonal | Width | Height | Distance |
| 50" (127.0 cm) | 42.52" (108 cm) | 26.38" (67 cm) | 2.83' (0.862 m) |
| 60" (152.4 cm) | 50.79" (129 cm) | 31.89" (81 cm) | 3.39' (1.034 m) |
| 70" (177.8 cm) | 59.45" (151 cm) | 37.01" (94 cm) | 3.96' (1.206 m) |
| 80" (203.2 cm) | 67.72" (172 cm) | 42.52" (108 cm) | 4.52' (1.379 m) |
| 90" (228.6 cm) | 76.38" (194 cm) | 47.64" (121 cm) | 5.09' (1.551 m) |
| 100" (254.0 cm) | 84.65" (215 cm) | 53.15" (135 cm) | 5.65' (1.723 m) |

Note: This graph is for user reference only.



User Controls

Using the On-Screen Display

- 1. The projector has a multi-language On-Screen Display (OSD) Menu that can be displayed with or without an input source.
- 2. Press the **Menu** button on the control panel or the remote control to enter the Main Menu.
- 3. To select an option, press the $\textcircled{\mbox{o}}$ or \bigodot buttons on your projector's control panel or remote control.
- 4. Use the $\textcircled{\mbox{o}}$ or $\textcircled{\mbox{o}}$ buttons on the control panel or remote control to adjust the settings.
- 5. To exit the OSD, press the **Menu** button directly on the control panel or the remote control.

Main Menu

The Main menu allows you to select the input source, adjust the volume, select the display mode, and configure the brightness, contrast, image, display, and setup settings.

| | Main | | | |
|--------------|--------|---|--------|----|
| Input Source | | • | VGA | • |
| Volume | | • | 5 | • |
| Display Mode | | • | PC | • |
| Brightness | | • | 5 | • |
| Contrast | | • | 5 | • |
| Image | | | | |
| Display | | | | |
| Setup | | | | |
| | | | | |
| +∱→ Select | 🖹 Exit | | 🔶 Ente | er |

- Input Source: Select your projector's input source. The options are: VGA, HDMI / MHL, and Media.
- Volume: Adjust the volume.

Note: Audio output is not supported in VGA mode.

Display Mode: Optimize the display image. The options are: Bright, PC, Cinema/ iDevice*, Photo, and ECO.

Note: *The *iDevice* option replaces the *Cinema* option if the input source is *HDMI* and the *iDevice* option (*Main > Setup > Advanced*) is enabled.

- Brightness: Adjust the brightness of the image.
- **Contrast**: Adjust the display contrast.

Image

The Image menu allows you to modify various image settings, such as 3D related, format, zoom, color temperature, color space, and others.

| | Image | | | |
|-------------------|--------|---|---------|----|
| | | | _ | |
| 3D | | | On | |
| 3D Sync. Invert | | • | Off | • |
| Format | | • | Auto | • |
| Zoom | | • | 100% | • |
| Color Temperature | | • | Warm | • |
| Color Space | | • | Auto | • |
| Frequency | | • | 0 | • |
| Phase | | • | 0 | • |
| +†+→ Select | ≣ Exit | | Ente ہے | er |

- **3D**: Turn the 3D function on or off.
- **3D Sync. Invert:** Turn the 3D sync. inverter option on or off.

Note:

- 3D/3D Sync. Invert cannot be changed when you select image settings.
- In 3D mode, the maximum supported input timing is 1024x768 @ 120Hz.
- **Format**: Select the format to adjust how the image appears. Options are:
 - **Auto**: Maintain the aspect ratio of the image projector according to the input source.
 - **4:3**: The input source scales to fit the screen and projects a 4:3 image.
 - **16:9**: The input source scales to fit the screen and projects a 16:9 image.
 - **16:10**: The input source scales to fit the screen and projects a 16:10 image.
- Zoom: Zoom in or zoom out the image. Options are: 50%, 75%, 100%, 125%, 150%, 175%, or 200%.
- Color Temperature: Select the color temperature. Options are: Warm, Medium, and Cold.

Note: The Color Temperature function is not supported in Bright, Eco, and 3D modes.

Color Space: Select an appropriate color matrix type. Options are: Auto, RGB, and YUV.

Note: The Color Space function is supported only in HDMI mode.

• **Frequency**: Change the display data clock frequency to match the frequency of your computer's graphics card. If you see a vertical flickering wave, use the Frequency control to minimize the bars. This is a coarse adjustment.

Note: The Frequency can be adjusted only in VGA mode.

Phase: Synchronize the signal timing of the display with the graphic card. If the image appears to be unstable or flickers, use the Phase to correct it. This is a fine adjustment.

Note: The Phase can be adjusted only in VGA mode.

<u>Display</u>

The Display menu allows you to modify the display settings, such as keystone, projection, auto focus, and manual focus.

| | Display | | |
|--------------------|---------|-------|----|
| Auto Keystone | 4 | On | |
| Keystone | • | 0.1 | • |
| Projection | • | Abc | • |
| Auto Focus | • | On | • |
| Manual Focus | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| ← ‡→ Select | Exit | 🕁 Ent | er |

Auto Keystone: Select On to automatically adjust image distortion caused by tilting the projector.

Note: The Auto Keystone function can be only used to adjust the image distortion vertically.

Keystone: Adjust image distortion caused by tilting the projector (+/-40 degrees).

Note: If you adjust the keystone degree manually then the Auto Keystone function will be automatically switched off.

- Projection: Select the projection mode, depending upon how the projector is mounted.
 - Auto Keystone: On
 - Abc No reverse
 - odA Left/ Right reverse
 - Auto Keystone: Off
 - Abc No reverse
 - odA Left/ Right reverse
 - Jown reverse
 - ∀Pc Up/ Down and Left/ Right reverse
- Auto Focus: Select On to automatically adjust the image focus.
- Manual Focus: Adjust the image focus manually when Auto Focus option is off.

<u>Setup</u>

The Setup menu allows you to choose the default OSD language, modify boot-up source, set sleep timer, and other options.

| | Setup | | | |
|-----------------|--------|---|---------|---|
| | | | | |
| Language | | | English | • |
| Boot-Up Source | | ◀ | Auto | |
| Direct Power On | | ◀ | Off | • |
| Sleep Timer | | ◀ | Auto | • |
| Advanced | | | | |
| Reset | | | | |
| Ver. | | | C01 | |
| | | | B02 | |
| | | | | |
| + + Select | ≣ Exit | | 🕁 Ente | r |

- Language: Set the language for the OSD. Options are: English, Germany, French, Italian, Spanish, Portuguese, Polish, Dutch, Russian, Swedish, Greek, 中文 (繁), 中文 (简), Janpanese, Korean, and Turkish.
- Boot-Up Source: Select the projector's boot-up source. Options are: Auto, VGA, HDMI / MHL, and Media.

Note: If the Boot-Up Source is set to "Auto" then at each boot-up of the projector the input source is always chosen the same as in previous session.

- Direct Power On: Choose On to activate Direct Power mode. The projector will automatically power on when AC power is supplied, without pressing the Power button on the projector control panel or on the remote control.
- Sleep Timer: Set the countdown timer interval. The countdown timer will start, with or without a signal being sent to the projector. The projector will automatically power off when the countdown has finished. Options are: Auto, Off, 0:30, 1:00, 3:00, 8:00, 12:00.

Note: If the Sleep Timer is set to "Auto" then the project will automatically power off after 15 minutes if no signal has been detected.

Reset: Reset all settings to its factory default, including computer sources and video source settings. After choosing this option, a confirmation message appears on the screen. Select "Yes" to confirm or "No" to cancel reset.



• Ver.: View the current projector's firmware version.

Advanced

The Advanced menu allows you to change settings for $\mathbf{iDevice},\,\mathbf{Mute},\,\mathbf{Saturation},\,\mathbf{and}\,\mathbf{Hue}.$

| Advanced | | | | |
|------------|--------|---------|----|--|
| | | | | |
| iDevice | • | Off | • | |
| Mute | • | AV Mute | • | |
| Saturation | • | 10 | • | |
| Hue | • | 0 | • | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| + + Select | ∃ Exit | 🕁 Ent | er | |

■ **iDevice:** Select **On** to display the best color reproduction when projecting images from iDevice (iPhone/ iPad/ iPod) through Lightning HDMI adapter.

Note: If you want to project images from iDevice, connect the device to the projector through the Lightning HDMI adapter, set input source to HDMI, enable iDevice option (Main > Setup > Advanced), and set iDevice as display mode (Main > Display Mode).

Mute: Select the Mute mode. Options are: AV Mute (mute both audio and video), Audio (mute audio only), and Video (mute video only).

Note: The function of the *Mute* button ((a)) on the remote control depends on the selected "Mute" option in the OSD menu.

Saturation: Adjust the saturation of the image.

Note: Saturation can be only adjusted in HDMI mode with supported video timings 1080p/i, 720p, and 480p/i.

• Hue: Adjust the hue of the image.

Note: Hue can be only adjusted in HDMI mode with supported video timings 1080p/i, 720p, and 480p/i.

Multi-Media Introduction

Multi-media format supported:

Photo Format

| | Encode Type | Max Size |
|-------------|-------------|--|
| Baseline | YUV420 | 4000x4000=16,000,000 pixel |
| | YUV422 | |
| | YUV440 | |
| | YUV444 | |
| Progressive | YUV420 | 4000x4000=16,000,000 pixel |
| | YUV422 | |
| | YUV440 | |
| | YUV444 | |
| | | YUV422 YUV440 YUV444 YUV444 YUV420 YUV422 YUV422 YUV420 |

BMP

4000x4000=16,000,000 pixel

Video Format

| File Format | Video Format | Decode Max res. | Max Bit Rate (bps) | Audio Format | Profile |
|-----------------------|--------------|--------------------|-----------------------|--------------------------------|----------|
| MPG,MPEG | MPEG1 | 1920x1080 30fps | 30M bps | MPEG1 L1-3 | |
| AVI, MOV, MP4, MKV | H.264 | 1920x1080 30fps | 30M bps | MPEG1 L1-3 HE-ACC v1 AC3 | BP/MP/HP |
| AVI, MOV, MP4, | MPEG4 | 1920x1080 30fps | 30M bps | HE-ACC v1 | SP/ASP |
| AVI, MOV, MP4, | Xivd | 1920x1080 30fps | 30M bps | MPEG1 L1-3 HE-ACC v1 | HD |
| AVI | MJPEG | 8192x8192 30fps | 30Mbps | MPEG1 L1-3 HE-ACC v1 | Baseline |
| WMV | VC-1 | 1920x1080 30fps | 30M bps | WMA8/9(V1/ v2) | SP/MP/AP |

Audio Format

| Music Type (Ext Name) | Sample Rate (KHz) | Bit Rate (Kbps) |
|-----------------------|-------------------|-----------------|
| MP3 | 8-48 | 8-320 |
| WMA | 22-48 | 5-320 |
| ADPCM-WAV(WAV) | 8-48 | 32-384 |
| PCM-WAV(WAV) | 8-48 | 128-1536 |
| AAC | 8-48 | 8-256 |

Office Viewer Format

| File Format | Support Version | Page/Lines Limitation | Size Limitation | |
|-------------|---|--|-----------------|--|
| Adobe PDF | PDF 1.0, 1.1, 1.2, 1.3, 1.4 | Up to 1000 pages (One File) | Up to 75MB | |
| MS Word | British Word 95, | Because office viewer does not | Up to 100MB | |
| | Word 97, 2000, 2002, 2003 | load all pages of MS/Word file at the same time, there are not | | |
| | Word 2007(.docx), | abvious limitations of page and line. | | |
| | Word2010(.docx), | | | |
| MS Excel | British Excel 5,95 | Row Limit: up to 595 | Up to 15MB | |
| | Excel 97, 2000, 2002, 2003 | Column Limit: up to 256 | | |
| | Excel 2007(.xlsx), Excel 2010(.xlsx) | Sheet: up to 100 | | |
| | Office XP Excel | Note: Any of the three limitations above can not appear on one excel file simultaneously. | | |

| File Format | Support Version | Page/Lines Limitation | Size Limitation |
|------------------|---|-----------------------------|-----------------|
| MS PowerPoint | British PowerPoint 97 | Up to 1000 pages (One File) | Up to 19MB |
| | 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) | | |
| | | | |

Note:

- Animations are not supported when viewing MS PowerPoint files.
 When projecting files, some documents may not be displayed the same as shown on the screen of a PC.

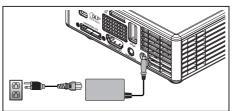
How to set-up File Type for Multi-Media with USB

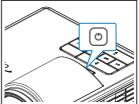
Note:

- 1. A USB flash disk must be plugged into the projector if you want to use the multimedia USB function.
- 2. Please don't connect USB port for camera since it would be exist compatibility problem.

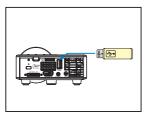
Follow these steps to playback the Photo, Video, or Music files on your projector:

1. Connect the power cable with AC adapter and turn on the projector by pressing the **Power** button.





2. Plug in a USB flash disk to your projector.



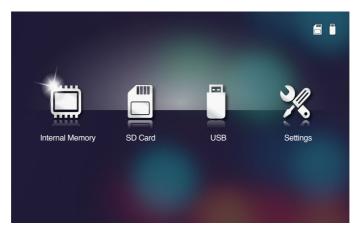
The Multi-Media menu opens.



Note: To open the Main Menu, press the **Menu** button on the remote control or long press for 1 second the **Menu** button on the control panel of the projector.

3. Select the HD Media menu.

The HD Media menu opens.



- 4. Access the **USB** menu and select the multimedia files: **Photo**, **Video**, or **Music**. Or select the **Settings** option to change settings for **Photo**, **Video**, or **Music**.
- 5. Select the file you want to open.

| | | | (m) |
|---------------|------------------------------------|---------------------|--------|
| | ./Office Pattern/ | | 4/11 |
| | 🗐 am_copy.txt | 2015-08-18 11:11 | 1 КВ |
| Office viewer | DOCXSample-picsel-2003.doc | | 10 MB |
| | DOCXSample-picsel-2010.docx | | 4 MB |
| | DOC_Master_vs_Competitors_on_Andro | oi 2011-04-06 13:39 | 4 MB |
| | Excel Picsel-2010.xlsx | 2011-03-18 18:52 | 101 KB |
| D | 🛒 Ppt Test example.ppt | 2011-03-16 14:22 | 5 MB |
| | E test-watermark-doc.docx | 2011-03-21 09:19 | |
| | test-watermark-doc.pdf | 2011-03-21 09:19 | 681 KB |
| | | | |

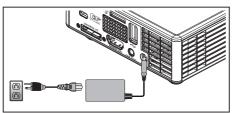
Note: The maximum allowed file name length is 28 characters.

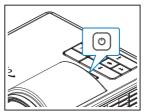
How to set-up File Type for Multi-Media with MicroSD

Note: A microSD card must be plugged into the projector if you want to use the multimedia microSD function.

Follow these steps to playback the Photo, Video, or Music files on your projector:

1. Connect the power cable with AC adapter and turn on the projector by pressing the **Power** button.





2. Plug in a MicroSD card to your projector.



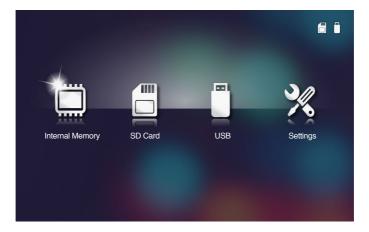
The Multi-Media menu opens.



Note: To open the Main Menu, press the **Menu** button on the remote control or long press for 1 second the **Menu** button on the control panel of the projector.

3. Select the HD Media menu.

The HD Media menu opens.



- 4. Access the **SD Card** menu and select the multimedia files: **Photo**, **Video**, or **Music**. Or select the **Settings** option to change settings for **Photo**, **Video**, or **Music**.
- 5. Select the file you want to open.

| | | | (m) |
|---------------|-----------------------------------|----------------------|--------|
| | ./Office Pattern/ | | 4/11 |
| | 🗐 am_copy.txt | 2015-08-18 11:11 | 1 KB |
| | DOCXSample-picsel-2003.doc | | 10 MB |
| | DOCXSample-picsel-2010.docx | | 4 MB |
| Office viewer | DOC_Master_vs_Competitors_on_Andr | roi 2011-04-06 13:39 | 4 MB |
| | 🗐 Excel Picsel-2010.xlsx | 2011-03-18 18:52 | 101 KB |
| D | 🗐 Ppt Test example.ppt | 2011-03-16 14:22 | 5 MB |
| | j test-watermark-doc.docx | 2011-03-21 09:19 | |
| | 🗐 test-watermark-doc.pdf | 2011-03-21 09:19 | 681 KB |
| | | | |
| | | | |

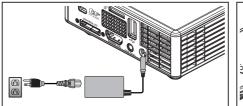
Note: The maximum allowed file name length is 28 characters.

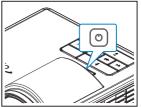
How to set-up File Type for Multi-Media with Internal Memory

Note: A microSD card must be plugged into the projector if you want to use the multimedia microSD function.

Follow these steps to playback the Photo, Video, or Music files on your projector:

1. Connect the power cable with AC adapter and turn on the projector by pressing the **Power** button.





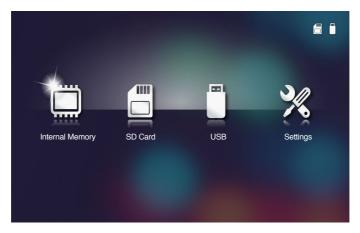
The Multi-Media menu opens.



Note: To open the Main Menu, press the **Menu** button on the remote control or long press for 1 second the **Menu** button on the control panel of the projector.

2. Select the HD Media menu.

The HD Media menu opens.



- 3. Access the **Internal Memory** menu and select the multimedia files: **Photo**, **Video**, or **Music**. Or select the **Settings** option to change settings for **Photo**, **Video**, or **Music**.
- 4. Select the file you want to open.

| | /Office Pattern/ | | 4/11 |
|---------------|-------------------------------------|------------------|--------|
| | 🛒 am_copy.txt | 2015-08-18 11:11 | 1 KB |
| Office viewer | DOCXSample-picsel-2003.doc | | 10 MB |
| | DOCXSample-picsel-2010.docx | | 4 MB |
| | DOC_Master_vs_Competitors_on_Androi | 2011-04-06 13:39 | 4 MB |
| | 🗐 Excel Picsel-2010.xlsx | 2011-03-18 18:52 | 101 КВ |
| D | 🗐 Ppt Test example.ppt | 2011-03-16 14:22 | 5 MB |
| | 🗐 test-watermark-doc.docx | 2011-03-21 09:19 | |
| | 🗊 test-watermark-doc.pdf | 2011-03-21 09:19 | 681 КВ |
| | | | |
| | | | |

Note: The maximum allowed file name length is 28 characters.

Multi-Media Main Menu



Multi-Media SETTINGS for System, USB, MicroSD, and Internal Memory

The multi-media settings menu allows you to change settings for System, Photo, Video, and Music.



Note: Multi-media setup menu and set are the same for the USB, MicroSD, and Internal Memory.

System Settings

Access the system settings menu. The system settings menu provides the following options:



Version

View the current projector's firmware.

Update

Update the projector firmware only from the **USB** stick.

Photo Settings

Access the photo settings menu. The photo settings menu provides the following options:



Display Ratio

Select the display ratio of the photo as **Original** or **Full Screen**.

Slideshow Pattern

Select what slideshow effect you want. Options are: Random, Ring Diffusion, Middle Enlarge, Expand Blink, Window Shades, Linear Interaction, Cross Interleaved, Banding Alternate, Rectangle Enlarge.

Slideshow Duration

Select the slideshow duration. The image will automatically switch to the next photo after the time out. Options are: **10 sec**, **30 sec**, **1 min**.

Note: Slideshow Duration, and Slideshow Pattern function only support Slideshow mode.

Video Setup

Access the video settings menu. The video setting menu provides the following option:



Display Ratio

Select the display ratio of the Video.

- Letter box: If the video source does not fit a 16:10 screen then the video image is stretched equally in the horizontal and vertical directions to fit the screen. Therefore parts of the video are cropped at the top and bottom (left and right) sides and appear as "black bars" around the video.
- **Cut screen**: Choose to display the video in its native resolution without scaling. If the projected image exceeds the screen size then it will be cropped.
- **Full screen**: Regardless the native aspect ratio, the video image is stretched non-linearly in the horizontal and vertical directions to exactly fit the 16:10 screen. You will not see the "black bars" around the video image but the proportions of the original content may be distorted.
- **Original screen**: Choose to display the video image in its native resolution without scaling. If the video resolution is lower than 1280x800 then you will see "black bars" around the edges of the video image. If the resolution is higher than 1280x800 then the video is displayed in 1280x800 resolution.

Repeat Mode

Select the video repeat mode. Options are: Sequence, Single, Random, Once.

Music Setup

Access the music settings menu. The music settings menu provides the following option:



Repeat Mode

Select the music play mode. Options are: Sequence, Single, Random.

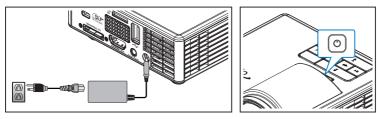
Other Multi-Media Connections

Using the multi-media menu, you can copy files directly to the projector or mirror the screen of your portable device.

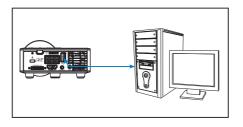
Project Files from the Built In Memory

Follow these steps to project files from your PC:

1. Connect the power cable with AC adapter and turn on the projector by pressing the **Power** button.



2. To access files from the hard disk of your PC, plug in one end of a USB-A cable to your PC and the other end of the USB cable to the projector.



The Multi-Media menu opens.



3. Select the **Connect to PC** menu.



The Connect to PC menu opens.



- 4. You will see the projector's internal memory on your PC. Then copy the files from your PC into the projector's internal memory.
- 5. Select the **HD Media** > **Internal Memory** menu and select the file you want to project on the wall.

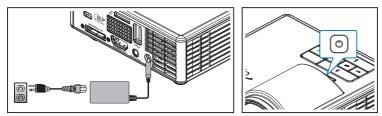


Tip: In Windows 10 and Mac OS 10.9, you can also save files from your PC directly to the projector's internal memory or to the micro SD card that has been inserted into the projector.

Mirroring the Screen of the Portable Device

Follow these steps to mirror the screen of your portable device:

1. Connect the power cable with AC adapter and turn on the projector by pressing the **Power** button.



The Multi-Media menu opens.



2. Select the HDCast Pro menu.



The HDCast Pro menu opens.

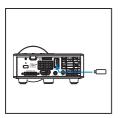


- 3. Do one of the following:
 - Depending on the operating system of your mobile device, open the App Store (iOS) or Google Play (Android) and install the HDCast Pro app on your mobile device.
 - Scan the QR code on the HDCast Pro menu with your mobile device and then follow the on-screen instructions to install the HDCast Pro app.

If you are using a laptop, download **HDCast Pro** app from <u>www.optoma.com/hdcastpro</u> website.



4. Plug in a Wi-Fi dongle to your projector.



- 5. Connect your portable device via Wi-Fi to the projector. An example connection parameters are as follows:
 - SSID of the projector: HDCastPro 701F96D7
 - Wi-Fi password: <u>40600759</u>

Note: The projector SSID and Wi-Fi password varies depending on the connected Wi-Fi dongle.

6. Open HDCast Pro app on your portable device.

The following screen opens.

| Android Android Image: State Sta | | |
|---|--|--|
| | E ²⁰ Options HDCatt Pro 1.6.0.189 | |
| Photo Camera Music Video Document Web Colud Video Colud Video Document Web Colud Video Colud Video Split Screen Preference AlrView | Image: Organization of the second | |
| HDMrror Setting | کې Setting | |

7. Select **HDMirror** (Android) from the menu to start mirroring the screen of your portable device.

Auto Play Feature (Digital Signage Mode)

Playback

1. Content

Full screen playback video files. No Image and ticker.

2. Video/Audio Codec

The supported file formats are listed below:

| Ext. filename | Video Codec *1 | Audio Codec ^{*1} | Note ^{*1} |
|--------------------------|----------------|---|--|
| .AVI | XVID | MPEG1,2-audio layer (mpga) | |
| .MPG, .AVI | MPEG2(mpgv) | MPEG1,2-audio layer (mpga) | |
| .MKV, .MOV, MP4, .AVI | H.264(avc1) | 1. AAC(mp4a) 2. MPEG1,2-audio layer (mpga) | Hight@L4.1, Hight@L4.0, Hight@L3.1, Main@L3.1 |

^{*1} Get codec information from MediaInfo ver.0.7.41

(http://mediainfo.sourceforge.net/zh-tw/Download/Windows) or VLC ver.1.1.8.

3. Playback behavior

In the microSD card "Signage" folder, play the files repeatedly in the order in which they are currently sorted. The system will ignore any sub-folder in "Signage" folder.



Always repeat playback

4. The order of file list

The play list collects all video files in the microSD card "Signage" folder. (The play list does not real file in storage. It is program in code)

If the first 2 characters of filename are 00~99, the program will sort these files (sort from small number to big number) and put them into head of file list. For example,



Note:

- If the first 2 characters of filename are 00~99, the play sequence will start from 00,01,02 until 99.
- If there are two files named "00", the play order will start from the Media file stored in the microSD card (but the reboot sequence is unchanged). If it is difficult to define the playback sequence, please change the filename (other than "00").
- If the first two characters of the file name are not numbers (other characters), no sorting is performed. The order of the files will start from the Media file stored in the microSD card. If it is difficult to define the play sequence, please change the filename that begins with the number 00~99.
- In addition, if the microSD card has a combination files of music, photos, and videos, the playback method is as follows:
 - 1. If there is a video in the file, Signage will only play the video file.
 - 2. If there are photos in the file, Signage will only play photo files.
 - 3. If there are photos and music in the file, Signage will play photo files and play music in the background.

The play sequence is also depending on the file sorting method.

5. Auto-disable playback info

Due to avoid redundant information for signage application, the system will autodisable "playback info window" (pause/start/next/previous/progress bar...) during signage mode.

6. Error handling

If the system gets an un-supported video file in file list, the system will skip this file.

7. Remote and keypad handling

During "signage mode", touchpad and "Up", "Down", "Left", "Right", "Enter" keys of the remote control are NOT working. Other keys of the remote control are working.

Error Message

1. No video file

If the microSD card inserted, but no any video file in "Signage" folder, the system will show a message window to notify the end user.

An example of message window:



2. MicroSD card is removed

If the microSD card is removed during playback, the system will show a message window to notify the end user.

An example of message window:



Power on/off

1. Direct power-on

When this setting is enabled, the system will change to power on mode directly ("power off mode" directs to "power on mode"; skip "stand-by mode") by AC plug-in.

2. Off timer

The system has one parameter for this setting that from 0 to 995 and each step is 5. "0" means disable this feature and "995" means auto power-off after 995 minutes.

Appendices

Troubleshooting

If you experience problems with your projector, see the following troubleshooting tips. If the problem persists, contact your local reseller or service center.

| Problem | Possible Solution |
|--|--|
| No image appears on the screen | Ensure that the projector is turned on. Ensure that you have chosen the correct input source on the OSD Main > Input Source menu. Ensure the external graphics port is enabled. If images are not displayed properly, please upgrade the video driver of your computer. Ensure that all the cables are securely connected. Ensure that the pins of the connectors are not bent or broken. |
| Partial, scrolling or incorrectly displayed image | If you experience difficulty in changing resolutions, or if your monitor freezes, restart all the equipment and the projector. If images are not displayed properly, please upgrade the video driver of your computer. |
| The screen does not display your presentation | If you are using a portable computer, press the toggle output settings. Example: [Fn]+[F4]. |
| Image is unstable or flickering | • Adjust the phase in the OSD Main > Image > Phase menu (in PC Mode only). |
| Image has vertical flickering bar | • Adjust the frequency in the OSD Main > Image > Frequency menu (in PC Mode only). |
| Image is out of focus | Adjust the focus ring on the projector lens. Ensure that the projection screen is within the required distance from the projector (2.82 ft [86 cm] to 5.64 ft [172 cm]). |
| The image is stretched when displaying a 16:9 DVD | The projector automatically detects the input signal format. It will maintain the aspect ratio of the projected image according to input signal format with an Original setting. If the image is still stretched, adjust the format in the Main > Image > Format menu in the OSD. |
| LED warning indicator (LED) is solid amber | • A projector LED has failed and the projector will automatically shut down. If the problem persists, contact Optoma. |

| Problem | Possible Solution |
|--|--|
| TEMP warning indicator (LED) is blinking amber | The projector has overheated. The display automatically shuts down. Turn the display on again after the projector cools down. If the problem persists, contact Optoma. |
| | If the projector fan fails, the projector will automatically shut down. Clear the projector mode by pressing and holding the Power button for 10 seconds. Please wait for about 5 minutes and try to power up again. If the problem persists, contact Optoma. |
| The remote control is not operating smoothly or works only within a limited range | • The battery may be low. Check if the LED indication from the remote is too dim. If so, replace with a new CR2025 battery. |

Guiding Signals

| Projector Status | Description | Power (Blue / Amber) | TEMP Warning (Amber) | LED Warning (Amber) |
|-------------------------|---|-------------------------------|---|---------------------------|
| Standby mode | Projector in Standby mode. Ready to power on. | Amber | OFF | OFF |
| Power on | Projector in Normal mode, ready to display an image. | Blue | OFF | OFF |
| Projector overheated | Air vents might be blocked or ambient temperature may be above 35 °C. The projector automatically shuts down. Ensure that the air vents are not blocked and that the ambient temperature is within operational range. If the problem persists, contact us. | Amber flashing and Blue ON | Amber Flashing (Cycling turn-off 1sec and turn-on 3sec) | OFF |
| Fan breakdown | One of the fans has failed. The projector automatically shuts down. If the problem persists, contact us. | Amber flashing and Blue ON | Amber Flashing (Cycling turn-off 0.5sec and turn-on 2sec) | OFF |
| LED failure | LED shutdown. | OFF | OFF | Amber |

Note: If there is a fan failure, the TEMP LED will blink amber (2 sec on / 0.5 sec off).
 If the projector fan fails, the projector will automatically shut down. Reset the projector mode by pressing and holding the **Power** button for 10 seconds. Please wait for about 5 minutes and try to power up again.

Compatibility Modes (HDMI/VGA)

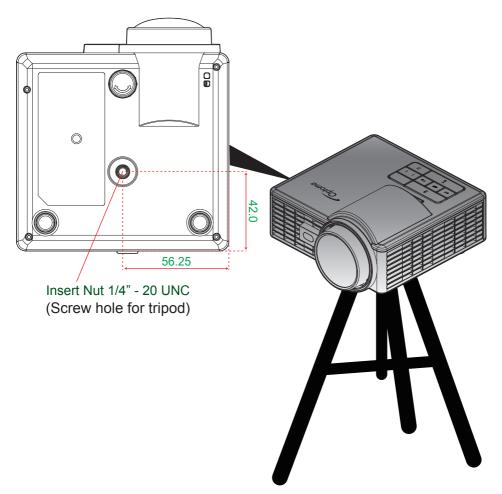
| Signal | Mode | Resolution | Refresh Rate (Hz) |
|------------------------------------|--------|-------------|-------------------|
| | VGA | 640 x 480 | 60/75 |
| | SVGA | 800 x 600 | 60/75/120(*) |
| | XGA | 1024 x 768 | 60/75/120(*) |
| HDMI, VGA(via Universal port) | SXGA | 1280 x 1024 | 60/75 |
| | WXGA | 1280 x 768 | 60/75 |
| | WXGA | 1280 x 800 | 60 |
| | WXGA | 1366 x 768 | 60 |
| | WXGA+ | 1440 x 900 | 60/75 |
| | SXGA+ | 1400 x 1050 | 60 |
| | WSXGA+ | 1680 x 1050 | 60 |
| | 480i | 720 x 480 | 30 |
| | 480p | 720 x 480 | 60 |
| HDMI, YPbPr(via Universal port) | 576i | 720 x 576 | 25 |
| | 576p | 720 x 576 | 50 |
| | 720p | 1280 x 720 | 50/60 |
| | 1080i | 1920 x 1080 | 25/30 |
| | 1080p | 1920 x 1080 | 24/50/60 |

Note: (*)3D timing for TI DLP 3D.

Tripod Mount the Projector

Screw a standard tripod into the screw hole on the projector. **Note:** *Please note that damage resulting from incorrect installation will void the warranty.*

Unit: mm



Specification

| Optical | Description |
|--------------------------|---|
| Maximum resolution | WXGA (1280x800) |
| Lighting source | RGB LED (LED life=20,000hrs) |
| Lens | Manual focus |
| Image size (diagonal) | 50" ~ 100", optimize at 60" |
| Projection distance | 0.86m~1.72mm, optimize at 1.033m |
| Electrical | Description |
| Inputs | - Universal VGA in x1 (need to use special cable), |
| | - HDMI/MHL in x1, |
| | - USB-A x 1, Micro SD x 1 |
| Outputs | Headphone out x1 |
| Color reproduction | 16.7 Million color |
| Scan rate | - Horizontal scan rate: 15.375 ~ 91.146 KHz |
| | - Vertical scan rate: 24 ~ 120 Hz (120Hz for 3D featured) |
| Built-in speaker | Yes, 1.5W (Amplifier) |
| Power requirement | AC Adapter, Input 100 - 240V $\pm 10\%$, AC 50/60Hz, Output 19V DC (to projector), Standby Mode < = 0.5W |
| Input current | AC in 1.7A (DC in 3,42A) |
| Multimedia | Description |
| FW based | Linux similar OS |
| USB-A portion | - For firmware upgrade (USB 1.1 support) |
| | Supports Host mode for USB storage disk (USB 2.0 support up to 64GB). |
| | - Supports WiFi dongle |
| | - Supports 5V/0.5A power for 3C device |
| Micro-SD slot | - Supports Micro SD & SDHC card (up to 64GB) |
| | - SDXC & UHS-I card types are not supported |
| Mechanical | Description |
| Installation orientation | Desktop/Front, Desktop/Rear |
| Dimensions | 112.5 x 105 x 40.5mm (w/o lens ring and rubber foot) |
| Weight | 0.46 kg |
| Environmental conditions | Operating: 5 ~ 40°C in Bright mode and ECO mode, 10% to 85% humidity (non-condensing) |
| | |

Note: All specifications are subject to change without notice.

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