



ARTOGRAPH

Flare450



User Guide



Caution!

WARNING: Please use this product as instructed. Misuse may cause injury or death.

DO NOT use while driving.

DO NOT expose to water or wet surfaces.
Electric shock may occur.

DO NOT expose the projected LED image
to your eyes or the eyes of others.

DO NOT block or restrict airflow from
ventilation holes as this may cause the
projector to overheat.

Keep the projector, battery, and charger
away from any heat sources.

Caution for Battery Use

Do not pierce or puncture the battery
with sharp objects.

Do not heat the product or expose it to
high temperature.

Do not wet it or place it in any liquid.

Caution for Headphone Use

Prolonged use at high volume may impair
your hearing.

High volume during walking or driving may
cause distractions and result in injury or death.

Table of Contents

1: Flare 450 Introduction

Flare 450 at a Glance	4
Remote and Touchpad	5
Included Accessories	6

2: Getting Started

Powering On/Off.	7
Focus Adjustment/Throw Distance	8
External Inputs/Outputs	9
Connect to a PC via Mini VGA	10
Connect to a PC via HDMI	12
Connect via Composite Video	14
Connect to Other Devices	16
Connect to Speakers or Headphones . .	18
Connect to TF/Micro SD Card	19
Connect to USB Drive	21

3: Menu Screens

Main Menu	24
Video Player Menu	25
Photo Viewer Menu	29
Music Player Menu	33
Text Viewer Menu	36

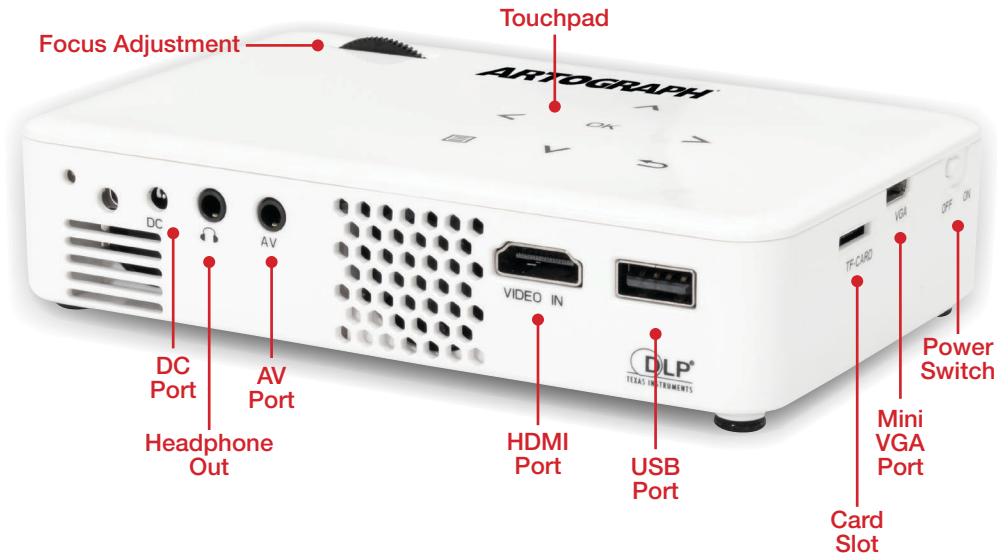
4: Setup Menu

Settings	37
Keystone	40
Grids	42

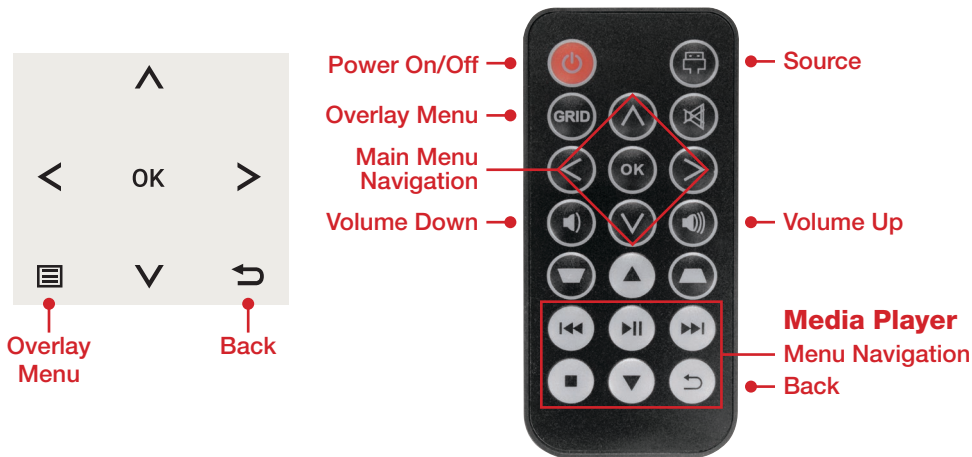
5: Technical Details

Troubleshooting	44
Specifications	46
Warranty	47

Flare 450 at a Glance



Remote and Touchpad



Both the touchpad and remote can be used to navigate through the menus. The Main Menu Navigation on the remote functions exactly the same as the directional pad on the projector.

*Pressing power on the remote will only put the projector in **STANDBY** mode.
Toggle the **ON/OFF** switch on the side of the projector to fully turn the projector off.*

Included Accessories



Power Adapter



Remote



HDMI Cable



USB Drive

VGA Adapter Cable sold separately. Under various circumstances, the actual accessories may be different from those shown in the pictures above.

Powering On/Off

Powering the projector ON

1. Connect the power cord to the projector.
2. Connect the other end of the power cord into the wall power source.
3. Toggle the On/Off switch on the side of the projector to the **ON** position – the projector should automatically turn on.

Powering the projector OFF

1. To turn off the projector, toggle the **Power Switch** to the **OFF** position. This will fully turn off the projector.



Focus Adjustment / Throw Distance

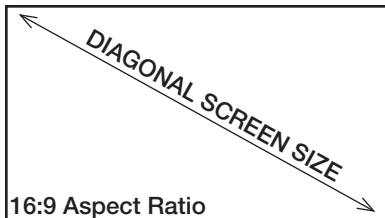
Focus Adjustment

Turn the wheel until the image becomes clear.

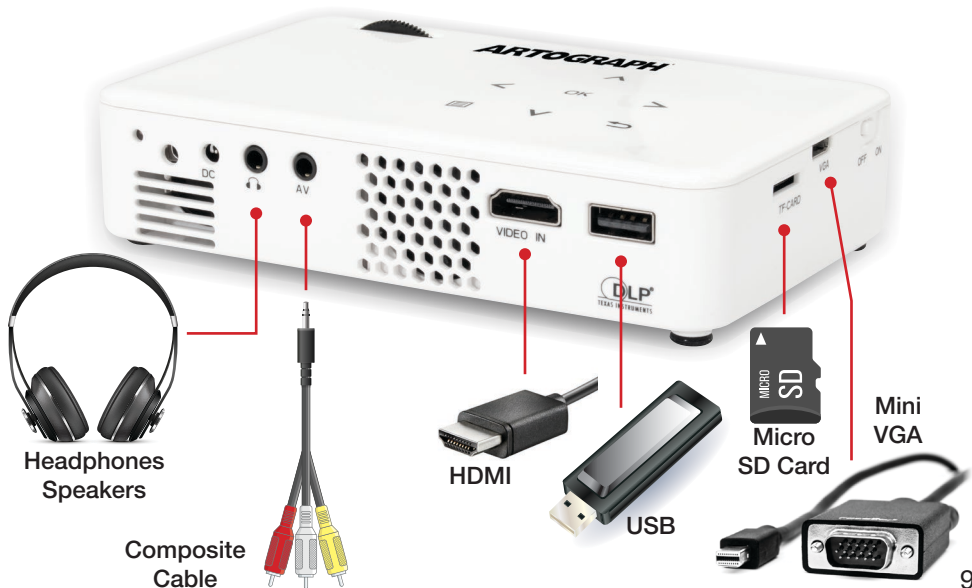
Throw Distance	Diagonal Size
19"	20"
29"	30"
38"	40"
48"	50"
57"	60"
67"	70"
76"	80"
86"	90"

Throw Ratio 1.2

Projection Angle: 100% Offset



External Inputs and Outputs



Connect to a PC via Mini VGA

Step 1:

Connect the large end of the VGA Cable to your computer's VGA port.



Step 2:

Connect the small end of the VGA Cable to your projector's Mini VGA port.



Step 3:

In the Main Menu, select the **INPUTS** icon, and then select **VGA**.



10 VGA Adapter Cable sold separately

Connect to a PC via Mini VGA

Step 4:

Enabling VGA on your Computer – To enable VGA output on your computer, most computers require “turning on” the video output feature. Each computer is different. Please consult your owner’s manual for instructions to enable VGA output. Below are standard instructions for a Windows 10 computer – not all systems are the same.

Step 5:

Press Windows+P to toggle through display settings. Select either “Duplicate” or “Extend” depending on your viewing option.



Step 6:

1. Right click on computer desktop and select “Screen Resolution”.
2. Display Properties window will pop up.
3. If a secondary monitor is grayed out, click on it and select “Extend these displays” in the “Multiple Displays” drop down.
4. If the image is blurry or the text is not legible, adjust the screen resolution. We recommend 1280x720.

NOTE: different operating systems may differ

Connect to a PC via HDMI

Step 1:

Connect one end of the HDMI Cable to your computer's HDMI port.

Step 2:

Connect the other end of the HDMI Cable to your projector's Video In port.



Step 3:

In the Main Menu, select the **INPUTS** icon, and then **DIGITAL INPUT**.



Connect to a PC via HDMI

Step 4:

Enabling Digital Video output on your Computer – To enable Digital Video output on your computer most computers require “turning on” the video output feature. Each computer is different. Please consult your owner’s manual for instructions to enable Digital Video output. Below are standard instructions for a Windows 10 computer – not all systems are the same.

Step 5:

Press Windows+P to toggle through display settings. Select either “Duplicate” or “Extend” depending on your viewing option.



Step 6:

1. Right click on computer desktop and select “Screen Resolution”.
2. Display Properties window will pop up.
3. If a secondary monitor is grayed out, click on it and select “Extend these displays” in the “Multiple Displays” drop down.
4. If the image is blurry or the text is not legible, adjust the screen resolution. We recommend 1280x720.

NOTE: different operating systems may differ

Connect via Composite Video

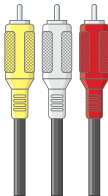
Step 1:

Connect the 3.5mm Composite AV Cable to the back of the projector.



Step 2:

Connect the composite end of the AV Cable (Red, White, Yellow) to your device.



Connect via Composite Video

Step 3:

In the Main Menu, select the **INPUTS** icon, then select **RCA**.



Step 4:

Turn on your multimedia device.

Connectivity with multimedia devices

The projector can connect to many media devices including: iPod, iPhone, iPad, VHS players, DVD players, Blu-Ray players, smart phones, cameras, video game consoles and other peripherals with ease.

Some smartphones require video out capabilities to be displayed with the projector. Check with your phone manufacturer.

Connect to Other Devices via HDMI

Step 1:

Connect one end of the HDMI cable to your projector's Video In port.



Step 2:

Connect the opposite end of the HDMI cable to your device.



16 *Apple devices require a specialized Digital Input adapter (sold separately by Apple).*

Connect to Other Devices via HDMI

Step 3:

In the Main Menu, select the **INPUT** icon, then select **DIGITAL INPUT**.



Step 4:

Turn on your multimedia device. If available, select 1280x720.

Connectivity with multimedia devices

The projector can connect to many media devices including: iPod, iPhone, iPad, VHS players, DVD players, Blu-Ray players, smart phones, cameras, video game consoles and other peripherals with ease.

Some smartphones require video out capabilities to be displayed with the projector. Check with your phone manufacturer.

Connect Speakers / Headphones

1. Connect your speakers/headphones to the projector's audio port.
2. Ensure that the projector and/or the headphones are powered on.
3. Place the headphones on and enjoy!



TF/Micro SD Card

How to insert your TF/Micro SD Card

1. Slide in your TF/Micro SD Card into the card slot on the side of the projector (facing upside down with the metal facing up).
2. Gently slide the TF/Micro SD Card until it clicks into place.



How to access your TF/Micro SD Card

1. Once your TF/Micro SD Card has been inserted, you can navigate to any media content category in the main menu.
2. After selecting the media content category, choose the TF/Micro SD card selection.
3. You can access data on your TF/Micro SD Card through the onboard media player.

Review the “Specifications” section of this manual to read about the supported file formats. Note: Microsoft Office and PDF file formats are not supported. To view a slideshow convert your slideshow into JPEG/JPG pictures first.

TF/Micro SD Card

Media Player menu

1. In the main menu select the type of file you wish to play.
2. Select the **TF/Micro SD Card** icon to access your files.



File Menu System

The projector will show all folders and files you have on your TF/Micro SD Card in the C: drive. Use the touchpad to navigate to different folders or files.

Return brings you back to the main menu.



USB Drive

How to insert your USB Drive

1. Gently insert your USB Drive into the USB port.
2. Use the navigation pad to choose the **USB** icon from the menu to access your files.
3. Choose your desired file.



(Up to 32 GB)

Note: Microsoft Office and PDF file formats are not supported. To view a slideshow convert your slideshow into JPEG/JPG pictures first.

USB Drive

Media Player menu

1. In the main menu select the type of file you wish to play.
2. Select the **USB** icon to access your files.



File Menu System

The projector will show all folders and files you have on your USB drive in the C: drive. Use the touchpad to navigate to different folders or files.

Return brings you back to the main menu.



TF/Micro SD Card and USB Drive

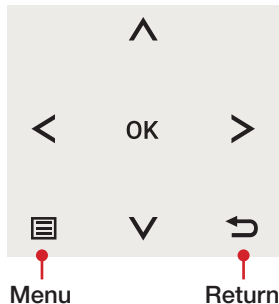
If both TF/Micro SD Card and USB Drive are inserted, depending on which one inserted first, the first one will show in the C: drive and the second one will show in the D: drive.



Main Menu

The projector features a built in PMP (Portable Media Player) function. This function allows the projector to play videos, pictures, music files, and text directly from your connected devices.

1. Press the left and right directional buttons to choose an icon from the main menu.
2. To select a menu option, press the **OK** button in the middle of the navigation pad.
3. To go back to the previous screen, press the **RETURN** button.



Video Player Menu

1. Select the **VIDEOS** icon.
2. From the submenu, select the storage media with the stored files.
3. Choose which file you wish to play.



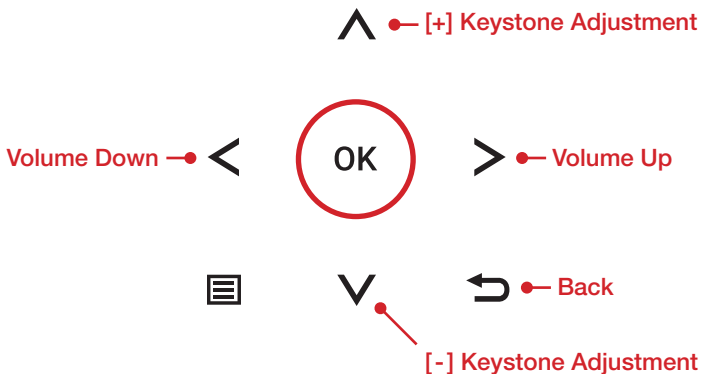
The projector will show all folders and files you have on your USB and/or TF Micro SD Card drive.

Previewing Files:

1. Press the directional keys to highlight the item of interest.
2. Wait 2-3 seconds and a preview of the video will show on the screen.

Video Player Menu

While playing videos, the volume is adjustable. Further controls are available in the video player submenu, which is accessed through the **OK** button.



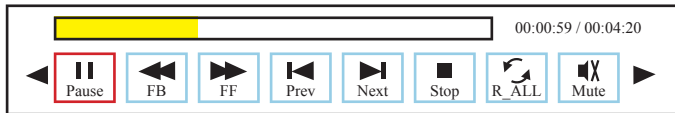
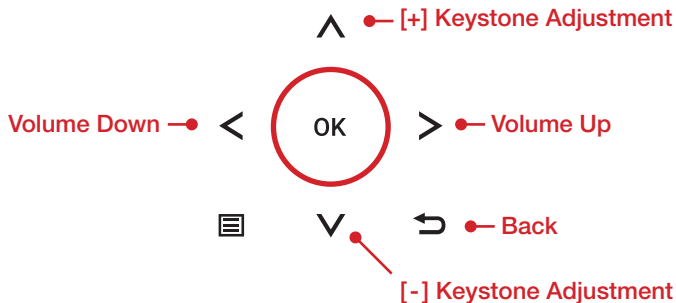
Enter Video Player Submenu

- To open/hide video playback menu, use the **OK** and **BACK** buttons on the projector.

Video Player Submenu

Playing Videos

The Video Player Submenu can be accessed by pressing **OK** during video playback. To exit the Video Player Submenu, press the **BACK** button or wait 5 seconds. To navigate the Playback Menu, use the directional buttons on the navigation pad or remote to highlight the option you wish to choose.



Video Playback FAQ

How do I loop a video?

1. Choose either USB or TF/Micro SD Card for playback
2. Navigate the folders until you reach the file you wish to play.
3. Highlight the file you want to play, then confirm the selection.
4. Move selection on video player menu to “Repeat 1” and confirm the selection.
5. The video will now loop after playback is finished.

How do I preview a video?

1. Choose the **VIDEOS** icon from the main menu.
2. Navigate using either remote or onboard buttons to the file you wish to preview.
3. Highlight the file (**do not select the file, just highlight it**).
4. Wait 3-4 seconds.
5. A preview screen will pop up on the lower right for the video.

Photo Viewer Menu

Opening a File

1. Select the **PHOTOS** icon from the main menu.
2. From the submenu, select the storage media with the stored files.
3. Choose which file you wish to play.



The projector will show all folders and files you have on your USB and/or TF Card.

Previewing Files

1. Press the directional keys to highlight the desired file.
2. Wait 2-3 seconds and a preview of the picture will show on the screen.

Photo Menu

While viewing pictures, further controls are available in the Photo Submenu, which is accessed through the **OK** button.

▲ ● — [+] Keystone Adjustment

Previous Photo ● — <

OK

> ● — Next Photo

▼ ● — [-] Keystone Adjustment

Enter Photo Player Submenu

To open/hide the Photo Playback menu, use the **OK** and **BACK** Buttons on the projector.

Photo Submenu

Viewing Pictures

The Photo Submenu can be accessed by pressing **OK** during picture slideshow playback. To exit the Photo Submenu, press the **BACK** button or wait 5 seconds. To navigate the playback menu, use the directional buttons on the navigation pad or remote to highlight the option you wish to choose.

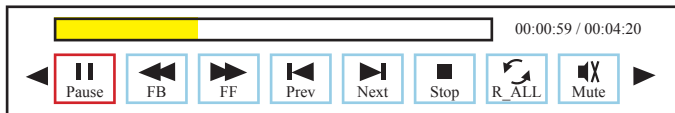
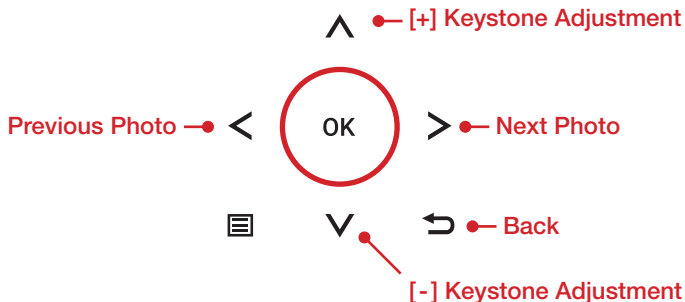


Photo Slideshow FAQ

How do I play a slideshow?

1. Choose either USB or TF/Micro SD Card for playback
2. Navigate to the folder that contains the pictures you wish to view in the slideshow.
3. Confirm selection of the first picture.
4. Press “Play” in the photo menu
5. Slideshow will now play.

*Selecting **REPEAT A** will loop slideshow.*



How do I manually control the slideshow?

1. After selecting the photo you wish to be displayed, you can press **PLAY** to start the slideshow (as outlined in the previous FAQ).
2. To manually control the slideshow, you must stop the slideshow with the **STOP** button.
3. You may use either the controls on your remote or on top of the projector itself to flip through the pictures in the current playlist.

Music Player Menu

Opening a File

1. Select the **INPUTS** icon.
2. From the submenu, select the storage media with the stored files.
3. Choose which file you wish to play.



The projector will show all folders and files you have on your USB and/or TF/Micro SD Card drive.

Previewing Files

1. Press the directional keys to highlight the desired file.
2. Wait 2-3 seconds and a preview of the audio will show on the screen.

Music Player Menu

Listening to Audio

To adjust the volume, use the left and right button on the projector or the volume keys on the remote. To navigate the playback menu, push the **OK** button to open the menu and use the directional buttons on the navigation pad or remote to highlight the option you wish to choose. To open/hide the music player playback menu, use the **OK** and **BACK** button on the projector.

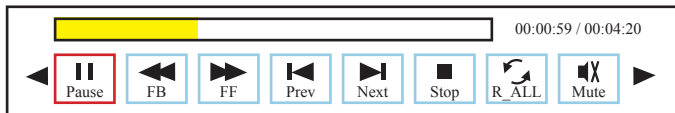
^ ● — [+] Keystone Adjustment

Volume Down ● — <

OK

> ● — Volume Up

v ● — [-] Keystone Adjustment



Music Playback FAQ

How do I loop a song?

1. Choose either USB or TF/Micro SD Card for playback
2. Navigate the folders until you reach the file you wish to play.
3. Highlight the file you want to play, then confirm the selection.
4. Move selection on music player menu to **REPEAT 1** and confirm the selection.
5. The song will now loop after playback is finished.

How do I create a song playlist?

1. Insert your media device (either TF/Micro SD Card or USB) into computer.
2. Make a new folder on media device (folder name will be the name of the playlist).
3. Transfer songs from computer to the new folder, name accordingly.
4. Remove media device from computer and insert into projector.
5. Navigate to Audio section, then choose appropriate media device.
6. Navigate to your playlist folder.
7. Start at first song.
8. Playback will follow each successive song on the list.

To create a special order for the list, add numerical numbering to the beginning of each file.

Text Viewer Menu

Opening a File

1. Select the **INPUTS** icon.
2. From the submenu, select the storage media with the stored files.
3. Choose which file you wish to display.



The projector will show all folders and files you have on your USB or TF/Micro SD Card.

Viewing Text Files

The projector allows you to view text files. Select the file you want to view in the file menu for the particular storage device on which the file is stored. You can press the up and down arrow buttons on the remote to flip through the pages you have in the present folder.

Microsoft Office and PDF file formats are not supported. To view a slideshow, convert your slideshow into JPEG/JPG pictures first.

Settings Menu

The Settings Menu can be accessed by selecting the **SETTINGS** icon in the Main Menu.

Picture

- Picture Mode
- Color Mode
- Aspect Ratio
- Brightness Mode
- Projection

Sound

- Sound Mode
- Balance
- Auto Volume

Time

- Sleep Timer
- Auto Sleep

Option

- OSD Language
- Restore Factory Default



Within the settings menu, there are four more submenus that allow you to customize your projector to the settings you want.

Picture Settings

Picture Mode

- Changes the picture mode to different settings depending on your usage.

Color Mode

- Adjusts the color temperature from warm to cool (red to blue).

Aspect Ratio

- Changes the aspect ratio of the picture (Auto, 4:3, 16:9*, etc.).

Brightness Mode

- Choose between Eco, Standard, and Boost Mode**.

Projection

- Flips the projected image.

****Caution:** Some pictures may be cut off when aspect ratio is set incorrectly.*

*****Boost Mode** can only be used for 1 hour and should only be used in low temperature environments with adequate clearance of exhaust/intake vents. A*

38 *tripod is highly recommended. **DO NOT** block vents while operating in Boost mode.*

Sound Settings

Sound Mode

- Changes the sound mode depending on what is currently playing.

Balance

- Adjusts the sound balance manually.

Auto Volume

- With the Auto Volume on, the video opens with volume automatically.

Time Settings

Sleep Timer

- Sets when projector goes to sleep.

Auto Sleep

- Sets auto sleep function where projector will turn off when not in use or if there is no signal.

Option Settings

OSD Language

- Changes the language of the projector. Options include English, Spanish, Chinese, German, French, Korean, and Japanese.

Restore Factory Default

- Restores the projector to factory settings.

Keystone Adjustments

What is Keystoneing?

Keystoning occurs when a projector is aligned non-perpendicularly to a screen, or when the projection screen has an angled surface. The image that results from one of these misalignments will look trapezoidal rather than square.

Digital Keystone Adjustments

By adding a special, selectable algorithm to the scaling, the projector is able to alter the image before it reaches the projection lens. The result is a squared image, even at an angle.



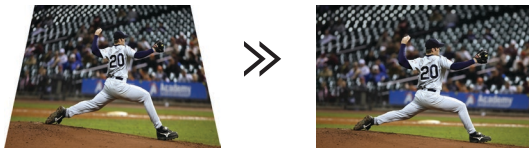
or



Keystone Adjustments FAQ

How to Correct Keystone

If the image looks trapezoidal with the base larger, press the bottom button on the directional pad on the top of the projector until the keystone effect corrects and the picture turns into a square projection.



If the image looks trapezoidal with the top larger, press the top button on the directional pad on the top of the projector until the keystone effect corrects and the picture turns into a square projection.



Grids

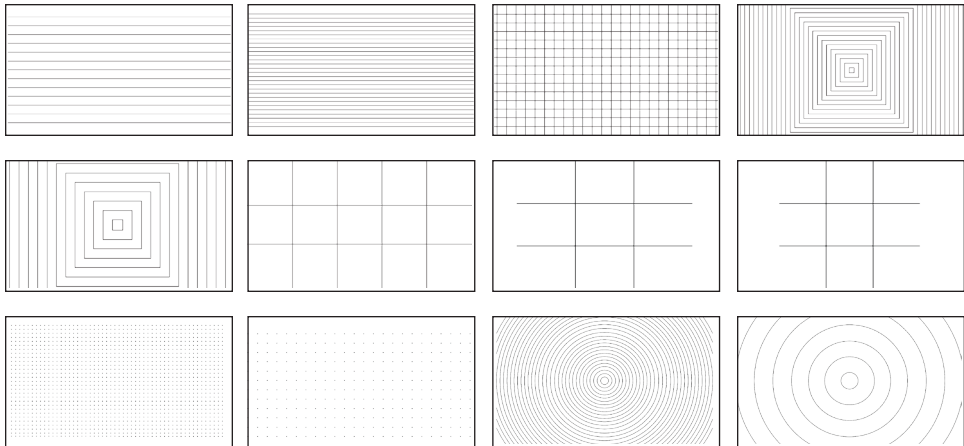
How to Turn On the Grid Function

1. In the Main Menu, select the **OVERLAYS** icon.
2. Use the left and right arrows to scroll through 12 grid patterns.
3. Select **OFF** to turn off grid function.



Grids

Available Grid Patterns



Troubleshooting

Image is Blurred

Possible Causes

1. The Projector is not in focus.
2. The Projector is offset from plane/angle of operation.

Solutions

1. Adjust the focus with the focus adjustment dial until the image comes into focus.
2. Move the projector so that it is both 180 degrees and on an even plane with the screen. It can also be adjusted with keystone settings.

No Sync, No Signal

Be sure to set up the computer to enable a video signal output. On some laptops this is done by pressing and holding Function Key F5. If using the projector as an external monitor on Windows based systems, this can be done by selecting “extend my desktop to this monitor”. The native resolution of the projector is 1280x720. Depending on your computer’s video driver, different resolutions may need to be selected for proper output.

Troubleshooting

The Projector Does Not Turn On

Possible Causes

1. There is no power.
2. Projector is in **STANDBY** mode.

Solutions

1. Check to ensure the power outlet source is good. Check the power adapter to ensure a proper connection with the wall outlet as well as the projector. Confirm that the unit is charged and has enough power.
2. To power on the projector, press the power button on the remote.

No Picture / File not Supported

Possible Causes

1. The video source is not properly connected or selected.
2. Incorrect file extension or video is encoded with incorrect codec.

Solutions

1. Check the video source signal to ensure that it is properly connected. Select the current input source by choosing the input desired from the main menu.
2. Please refer to “Specifications” page to see which file types and codecs are supported. Verify that the file was encoded properly.

Specifications

Brightness:	420 Lumens
Native Resolution:	1280x720 (720p)
Max Resolution:	1920x1080 (1080P)
Battery Runtime:	150 Minutes (Eco Mode)
Contrast Ratio:	1000:1
Aspect Ratio:	16:9
Projection Lens:	Manual Focus
Image Size:	10~120 inches
Lamp:	Triple RGB LEDs with Vibrant Color Technology Life 30K Hrs
Video In:	Composite A/V, Mini-VGA, Digital Input (Compatible with Full Size HDMI™)*
Audio Out:	3.5mm Audio Jack
TF/Micro SD Card:	TF/Micro SD Card Slot (32GB Maximum)
USB:	5 Pin USB 2.0 (Full Size) (32GB Maximum)
Dimensions:	6" x 3.5" x 1.25"
Weight:	0.84 lbs
Supported File Formats:	MP3, WMA, OGG, WAV, TXT, JPG, AVI, BMP, GIF

**HDMI™ is a registered trademark of HDMI Licensing LLC. Artograph® is not affiliated with HDMI Licensing LLC.*

Warranty Be sure to register your Artograph® product online at www.artograph.com. Artograph® products are warranted to be free from defects in material and workmanship for a period of one year from the date of sale to the original purchaser. Any defective product will be repaired or replaced by Artograph® at its option, provided the product is returned, shipping prepaid, to our factory within the warranty period. Customer shall promptly notify either the original seller or Artograph® of any warranty claim in sufficient detail to describe both the problem and its symptoms along with a copy of the original purchase receipt or other acceptable proof of purchase. All allowed returns will be provided a **Return Authorization (RA)** number. Any product received without a **Return Authorization** number will be returned. Equipment repaired or replaced under this warranty will be returned freight or postage prepaid. The warranty period for repaired or replacement products shall be for the same duration as the original warranty. This warranty does not cover repair for damage to the product, or product components or malfunctions caused by (i) misuse, neglect, power failures or surges, lightning, fire, flood or accident; (ii) use of products or facilities supplied by others; or (iii) failure to follow installation, operation or maintenance instructions.

THE EXPRESS WARRANTIES HEREIN CONTAINED ARE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT, EACH OF WHICH SELLER DISCLAIMS AND ARE EXCLUDED. WHILE THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF, CUSTOMER'S LOCAL LAW MAY PROVIDE OTHERWISE. SELLER SHALL NOT BE LIABLE FOR DAMAGES, INCLUDING SPECIAL AND INCIDENTAL OR CONSEQUENTIAL DAMAGES, INTERRUPTION OF BUSINESS ARISING OUT OF OR IN CONNECTION WITH PERFORMANCE OF THE PRODUCTS OR USE BY CUSTOMER.



Products for the Creative Mind®

Office: 562.942.0492
Product Support: 866.942.0492
www.artograph.com