





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

Caution for Headphone Use

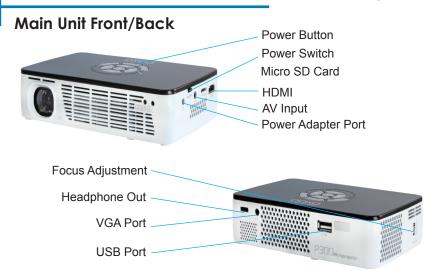
- Prolonged use at high volume may impair your hearing.
- High volume during walking or driving may cause distractions and result in injury or death

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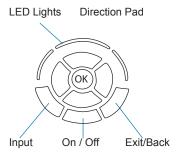
P450 at a Glance

Chapter 1



Remote & Keypad



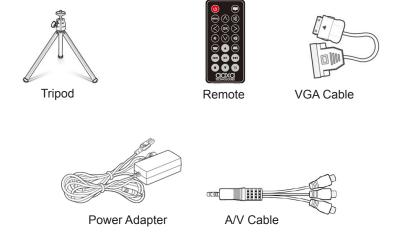


Remote

Both the keypad 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 P450 unit.

NOTICE: 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.

Accessories



^{*}Under various circumstances, the actual accessories may be different from those shown in the pictures above.

Getting Started

Chapter 2

Powering ON the projector

- 1. Connect the power cord to the P450.
- 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.
- 4. If the projector does not automatically turn on with the "Power Switch" toggled to the "ON" position, press the "ON/OFF POWER" button on the keypad and hold for 2-3 seconds to start the projector

Standby Mode

- To transition to "STANDBY" mode press and hold the power button on the keypad or the remote control for 3 seconds.
- 2. The optical engine should power off and the fan should stop spinning. The projector is now in "STANDBY" mode and can be turned on using the remote control.
 - *Note: Standby mode will still consume a small amount of power.

Powering OFF the projector

 To turn off the projector, toggle the POWER Switch to the "OFF" position. This will fully turn off the projector.

^{*}The P450 is NOT battery powered and does not have the option for a battery

Focus Adjusment / Throw Distance

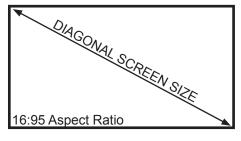
Focus Adjustment

Spin the focus wheel up or down until the image becomes



Throw Distance Chart

Throw Distance	Diagonal Size		
Units: Meters	Units: Inches		
0.5	17		
1.0	33		
1.5	50		
2.0	66		
2.5	83		
3.0	99		
3.5	116		
4.0	133		



Throw Ratio 1.40

Projection Angle: 39.3 degrees

*minimum throw distance: 12 inches

External Inputs and Outputs



Connecting to a Computer via VGA

Step 1:

Connect one end of the VGA Cable to your computer's VGA Adapter.



Connect the other end of the VGA Cord to your P450's VGA port.





Step 3:

In the Main Menu Select "Inputs" icon and then the "VGA" Icon.





Select "INPUT" icon



Select "VGA" icon

Connecting to a Computer Cont.

Step 4:

Enabling VGA or HDMI output on your Computer – To enable VGA or HDMI 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 or HDMI output. Below are standard instructions for a Windows XP computer – not all systems are the same.

Step 5:



Press function & "F5" to instruct the computer to enable multiple displays.

You can also press Windows+P to toggle through display settings.

Step 6:



- Right click on computer desktop and select "Properties"
- Display Properties window will pop up
- 3. Click on the "Settings" Tab
- 4. If a secondary monitor is grayed out, click on it and check "Extend my Windows Desktop onto this monitor"
- If the image is blurry or the text is not legible, adjust the screen resolution. We recommend 1280x800.

*NOTE: different operating systems may differ

Connecting to a Computer via HDMI

Step 1:

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



Step 2:

Connect the other end of the HDMI Cord to your P450's HDMI port.



Step 3:

In the Main Menu Select "Inputs" icon and then the "HDMI" Icon.





Select "INPUT" icon



Select "HDMI" icon

Connecting to a Computer Cont.

Step 4:

Enabling VGA or HDMI output on your Computer – To enable VGA or HDMI 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 or HDMI output. Below are standard instructions for a Windows XP computer – not all systems are the same.

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 - Desktop onto this monitor"
 5. If the image is blurry or the text is not legible, adjust the screen resolution. We recommend 1280x800.

*NOTE: different operating systems may differ

Connecting to Composite Video

Step 1:

Connect the 3.5mm Composite A/V Cable to the back of the P450.



Step 2:

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





Connecting to Composite Video Cont.

Step 3:

In the Main Menu



P450 NO MOR PRODUCTION OF THE PASS OF THE

Select "INPUT" icon

Select "AV" icon

Step 4:

Turn on your multimedia device.

Connectivity with multimedia devices

The P450 can connect to many media devices including: iPod, iPhone, iPad, VHS players, DVD players, smart phones, cameras, video game consoles and other peripherals with ease.

^{*}Apps on smart phones require video out capabilities to be displayed with the P450. 4

Connecting to HDMI Video

Step 1:

Connect one end of the HDMI to your P450's HDMI Adapter



Step 2:

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



Note: Apple devices require a specialized HDMI adapter (Sold separately by Apple)



Connecting to HDMI Video Cont.

Step 3:

In the Main Menu



Select "INPUT" icon



Select "HDMI" icon

Step 4:

Turn on your multimedia device. If avaiable select 1280x720 or 1920x1080

Connectivity with multimedia devices

The P450 can connect to many media devices including: iPod, iPhone, iPad, VHS players, DVD players, smart phones, cameras, video game consoles and other peripherals with ease.

^{*}Apps on smart phones require video out capabilities to be displayed with the P450.

Connecting Speakers/Headphones



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

*CAUTION: Prolonged use of headphones at a high volume may impair hearing

Micro SD Card

How to insert your Micro SD Card

- Slide in your SD card into the SD card slot on the front of the P450.
 (Text facing down as shown in picture)
- Gently slide the SD card until it clicks into place.

How to access your Micro SD Card

- Once your SD Card has been inserted, you can navigate to any media content in the main menu..
- After selecting the media content, choose the SD card selection.
- You can now access the data on your SD card through the onboard media player

*Review the Specification 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

pictures first.

Micro SD Card Cont.



Media Player menu

- In the main menu select the type of file you wish to play.
- Select the MicroSD icon to acess your files.



File Menu System

- The P450 will show all folders and files you have on your SD Card in the C: drive
- Use the directional buttons to navigate to different folders or files.



Return: Brings you back to the main menu

USB Host

How to insert your USB Drive

- Slide your USB Drive into USB port. (as shown in picture)
- Gently slide the drive until it cannot go in any further.

How to access your Micro SD Card

- Insert your USB Drive into the projector.
- Use the navigation pad to choose the USB Drive icon from the main menu to access your files.
- · Choose your desired file.
- *Review the Specification 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 pictures first.

USB Host Cont.



Media Player menu

- In the main menu select the type of file you wish to play.
- Select the USB Drive icon to access your files.



File Menu System

- The P450 will show all folders and files you have on your USB Drive.
- Use the directional buttons to navigate to different folders or files.



Return: Brings you back to the main menu

Menu Screens

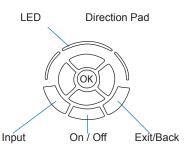
Chapter 3

Main Menu

The P450 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.





- Press the left and right directional buttons to choose an icon from the main menu.
- To select a menu option press the "OK" button in the middle of the navigation pad.
- To go back to the previous screen, press the "Back" button.
- To Jump back to the submenu press the "Menu" button once.
- To return to the main menu press and hold the "Return" button.

Video Player Menu

Opening a file:

- Select the "Video" icon (Fig. 3.1)
- From the sub menu (Fig. 3.2), select the storage media with the store files.
- Choose which file you wish to play.





The P450 will show all folders and files you have on your USB or MicroSD drive. Use the navigation buttons to select folders or files.

Previewing Files:

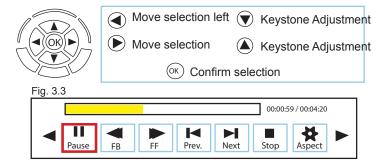
- Press the directional keys to highlight the item of interest
- Wait 2-3 seconds and a preview of the video will show on the screen

Video Player Menu

Playing Videos

To adjust the volume use the left and right button on the projector or the volumes 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 (Fig 3.3).

To open/hide the video playback menu, use the "OK" and "Back" Buttons on projector.



Video Playback FAQ

How do I loop a video?

 Choose either USB or SD Card for playback





- Navigate the folders until you reach the file you wish to play.
- 3. Highlight the file you want to play, then confirm the selection.
- Move selection on video player menu to "repeat", and confirm the selection.
- The video will now loop after playback is finished.

How do I preview a video?

- Choose the "video" option from the main menu
- 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.
- Wait for 3-4 seconds.
- A preview screen will pop up on the lower right for the video.

Photo Menu

Opening A File:

- Select the "Photo" icon (Fig. 3.4)
- From the sub menu (Fig. 3.5), select the storage media with the store files.
- · Choose which file you wish to play.

Fig 3.4



Fig 3.5



The P450 will show all folders and files you have on your USB or MicroSD drive. Use the navigation buttons to select folders or files.

Previewing Files:

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

Photo Menu

Viewing Pictures:

To adjust the volume use the left and right button on the projector or the volumes 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 (Fig 3.6).

To open/hide the photo playback menu, use the "OK" and "Back" button on the projector.

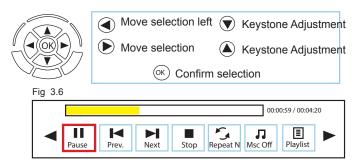


Photo Slideshow FAQ

How do I play a slideshow?

 Choose either USB or SD Card for playback





- Navigate to the folder that contains the pictures you wish to see in the slideshow
- 3. Confirm selection of the first picture.
- 4. Press "play" in the photo menu
- Slideshow will now play.
- 6. NOTE: Selecting "repeat" will loop slideshow.

How do I manually control the slideshow?

- After selecting the photo you wish to be displayed, you can press "play" to start the slideshow (as outlined in the previous FAQ).
- To manually control the slideshow, you must stop the slideshow with the "stop" button.
- 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:

- Select the "Music" icon (Fig. 3.7)
- From the sub menu (Fig. 3.8), select the storage media with the store files.
- · Choose which file you wish to play.





The P450 will show all folders and files you have on your USB or MicroSD drive. Use the navigation buttons to select folders or files.

Previewing Files:

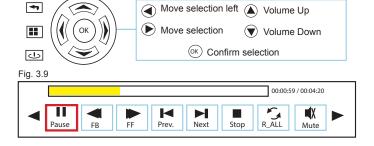
- Press the directional keys to highlight the item of interest
- Wait 2-3 seconds and a preview of the audio will show on the screen

Music Player Menu

Listening To Audio:

To adjust the volume use the left and right button on the projector or the volumes 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 highlight the option you wish to choose (Fig 3.9).

 To open/hide the music playerback menu, use the "OK" and "Back" button on the projector.



Music Playback FAQ

How do I loop a song?

 Choose either USB or SD Card for playback





- Navigate the folders until you reach the file you wish to play.
- Highlight the file you want to play, then confirm the selection.
- Move selection on music player menu to "repeat", and confirm the selection.
- 5. The song will now loop after playback is finished.

How do I create a song playlist?

- Insert your media device (either microSD card or USB) into computer.
- 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.
- Remove media device from computer and insert into projector.
- 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.

EBook Viewer Menu

Opening A File:

- Select where the files are located from the main menu.
- Select the "EBook" icon (Fig 3.10)
- Choose which file you wish to play.



Fig. 3.10

The P450 will show all folders and files you have on your USB or MicoSD Drives. Use the navigation buttons to select folders or files.

Viewing Text Files:

The P450 Pico 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 left and right arrow buttons on the directional pad or remote to flip through the pages you have in the present folder.

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

Setup Menu

Chapter 4

The Settings Menu can be accessed by selecting "Settings" on the main menu



Within the settings menu there are four more submenus that allow you to customize your P450 to the settings you want.

Picture

- Picture Mode
- Color Temperature
- Aspect Ratio

Sound

- Sound Mode
- Balance
- Auto Volume
- Surround Sound
- EQ

Time

- Clock
 - Off Time
- Sleep Timer

Option

- OSD Language
 - Restore Factory Default
- Blending
- OSD Duration

Picture Settings

Picture Mode

 Changes the picture mode to different settings depending on your choosing.

Color Temperature

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

Aspect Ratio

• Changes the aspect ratio of the picture - 4:3, 16:9*

Noise Reduction

(Not Available)

Backlight

(Not Available)



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

Sound Settings



Sound Mode

 Change the sound mode depending on what is currently playing.

Balance

Adjusts the balance of the sound, from left to right.

Auto Volume

 Sets the projector to auto-detect for the volume. The projector will auto detect the appropriate sound mode

Surround Sound

Adjusts the surround sound capabilities of the projector.

EQ

 Changes the equalizer for the projector, which affects the sound signature.

Time Settings

Clock

Adjust the time/date.

Off Time

(Function not available)

On Time

(Function not available)

Sleep Timer

(Function not available)

Auto Sleep

· (Function not available)



Option Settings



OSD Language

Changes the language of the device. Options include English, Spanish, Chinese, German, French

Restore Factory Default

Restores the projector to factory settings.

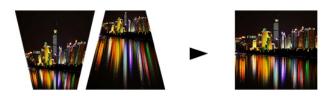
Blending

Adjusts the blending option.

OSD Duration

 Allows the projector to set a duration for the selected OSD language.

Keystone Adjustments



What is Keystoning?

"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.

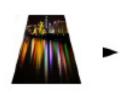
Digital Keystone Adjustments

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

Keystone Adjustments FAQ

How to Correct Keystone

 If the image looks trapezoidal with the base larger (as pictured right), press the bottom button on the directional pad on the top of the P450 until the keystone effect corrects and the picture turns into a square projection.





 If the image looks trapezoidal with the top larger (as pictured right), press the top button on the directional pad on the top of the P450 until the keystone effect corrects and the picture turns into a square projection.





Technical Details

Chapter 5

Troubleshooting

IMAGE IS BLURRED

Possible Causes	Solution
The Projector is not in focus	Adjust the focus with the focus adjustment dial until the image comes into focus
The Projector is offset from plane / angle of operation	Move the projector so that it is both 180 degrees and on an evern plane with the screen.

No Sync, No Signal

1. Be sure to setup the computer to enable a video signal output. On some laptops this is done by pressing and holding Function F5 key. If using the P450 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 P450 projector is 1280x800. Depending on the video driver different resolutions may need to be selected for proper output.

Technical Details

Troubleshooting

THE PROJECTOR DOES NOT TURN ON

THE PROJECTOR BOLS NOT TORN ON			
Possible Causes	Solution		
There is no power	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		
The power button was not held long enough	To power on the projector, the power button needs to be depressed for a full 3 seconds. Try holding the power button until the optical engine turns on		

NO PICTURE / FILE NOT SUPPORTED

Possible Causes	Solution	
The video source is not properly connected or selected	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	
Incorrect file extension / Video is encoded with incorrect codec	Please refer to "Specifications" page to see which file types and codex are supported. Verify that the file was encoded properly.	

Specifications

SD Card:

Brightness: 450 Lumens

Native Resolution: 1280x800(WXGA)
Maximum Resolution: 1920x1080(1080P)

Contrast Ratio: 2000:1 Aspect Ratio: 16:95

Projection Lens: Manual Focus Image Size: Manual Focus 10~140 inches

Lamp: Triple RGB LEDs with Vibrant Color

Technology Life 15,000hrs

Video in: Composite A/V VGA(mini-VGA)

HDMI

Audio Output: 1.0 W stereo speakers

3.5 mm audio jack MicroSD Card Slot

(32GB maximum)

USB: USB Host

(Memory Sticks)

Dimensions: 15.8" x 3.9" x 1.5"

Weight: 0.88 lbs

Supported File Formats: AVI, MPG, MP3, FLV,

RMVB, RM, JPG,TXT

Notes	

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Please direct all customer service inquiries to:

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