aaxa
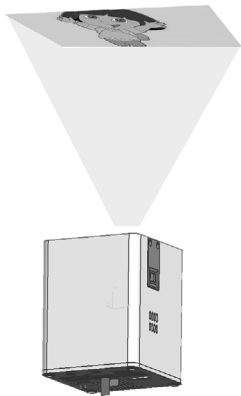## TECHNOLOGIES

HD PICO
PROJECTOR

User Guide

Vertical Operation

- The HD Pico can be used for vertical operation (Ceiling projection).
- To use the HD Pico for Ceiling projection set the HD Pico in "Eco mode".
- Only an SD Card can be used for Ceiling projection.
- Please only use the HD Pico in vertical operation mode in cool environments.

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, or 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

Main Unit Back

Headphone Out

Mini-HDMI

AV Port

Focus Adjustment

Power Button

Micro SD Card

Charging Port

USB Port

Remote

Power Button ———

Select Source

Main Menu
Navigation

Volume Down ———

Volume Up

Media Player
Menu Navigation

Remote

Remote is used to navigate through the onboard menu system.

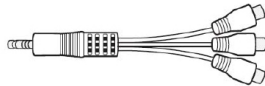*NOTE: The remote control is required to navigate the onboard menu. If you lose your remote control, please visit www.aaxatech.com to purchase a new one.*
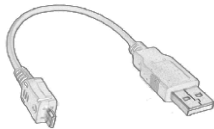
Accessories

Tripod

A/V Cable

MIicro USB Charge Cable

Remote

* Note: The HD Pico charges from a 5V USB power source. A smartphone power source is sufficient to charge the HD Pico. For continuous "Boost" operation, a special 5V 2.5A power source is required (sold separately).
* Additional accessories are available for purchase at www.aaxatech.com

Getting Started

Chapter 2

Powering ON the projector

1. To power-on a fully charged HD Pico, hold down the power button for approximately three seconds until the projector turns on.

Powering OFF the projector

1. Press the power button once, then again to confirm.
2. After a few seconds, the unit should turn off fully.

Charging the projector

1. If you want to charge your HD Pico, you can simply plug in the Micro USB cable to any computer or USB adapter and connect the other end of Micro USB cable to the HD Pico (5v DC port).
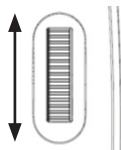
NOTE: The HD Pico Projector battery does not charge when it is in operation.

Focus Adjusment / Throw Distance

Focus Adjustment

- Spin the focus wheel up or down until the image becomes clear.

Throw Distance Chart

Throw Distance	Diagonal Size
Units: Inches	Units: Inches
20	12
30	18
40	25
50	31
60	37
70	43
80	49
90	55

DIAGONAL SCREEN SIZE

16:9 Aspect Ratio
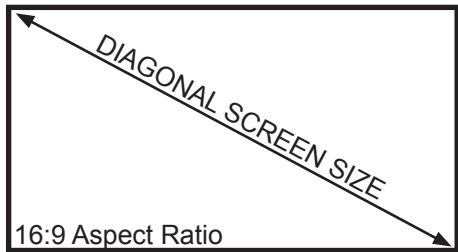
Throw Ratio 1.90

Projection Angle: 100% Offset

*minimum throw distance: 10 inches

External Inputs and Outputs

Headphones

Composite AV

Mini HDMI

Micro SD

USB
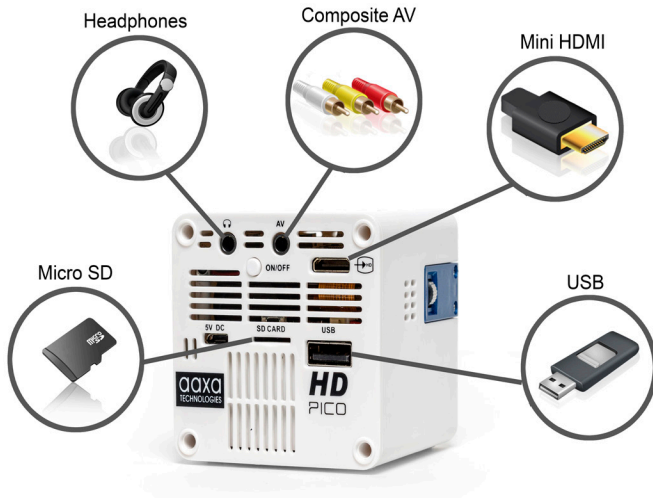
Connecting to a Computer via HDMI

Step 1:
Connect one end of the mini-HDMI Cable (purchased separately) to your computer's HDMI Adapter.

Step 2:
Connect the other end of the mini-HDMI Cord to your HD Pico's HDMI port.

Step 3:
In the Main Menu, select the "INPUT" icon and then the "HDMI" Icon.

Select "INPUT" icon

Select "HDMI" icon

Connecting to a Computer Cont.

Step 4:

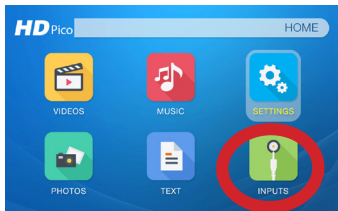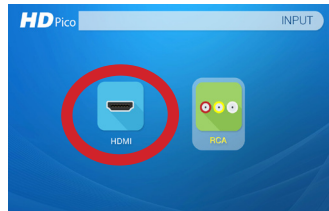To enable HDMI output on your computer, most computers require "turning on" the video output feature. Each computer is different. Please consult your computer's manual for instructions to enable HDMI output. Below are standard instructions for a Windows 10 computer – not all systems are the same.

Step 5:

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

NOTE: different operating systems may differ

Step 6:
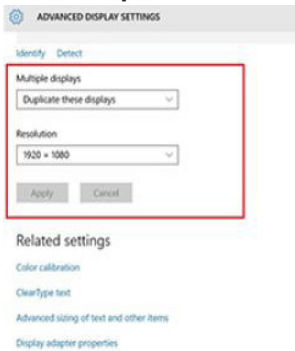
1. Right click on computer desktop and select "Screen Resolution"
2. Display Properties window will pop up
3. If a secondary monitor is grayed out, click on it and select "Extend these displays" in the "Multiple Displays" drop down
4. If the image is blurry or the text is not legible, adjust the screen resolution. We recommend 1280x720.

Connecting to Composite Video

Step 1:

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

Step 2:

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

Connecting to Composite Video Cont.

Step 3:

In the Main Menu
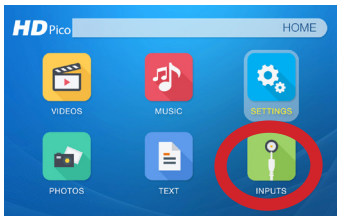
Select "INPUT" icon

Select "RCA"

Step 4:

Turn on your multimedia device. If available, select 1280x800 or 1920x1080.

Connectivity with multimedia devices
The HD Pico 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 smart phones require video out capabilities to be displayed with the HD Pico. Check with your phone manufacturer.

Connecting to HDMI Video

Step 1:
Connect one end of the mini-HDMI Cable (purchased separately) to your computer's HDMI Adapter.

Step 2:
Connect the other end of the mini-HDMI Cord to your HD Pico's HDMI port.

Note: Apple devices require a specialized HDMI adapter (Sold separately by Apple)
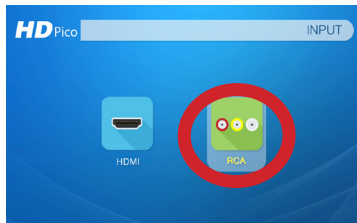
11
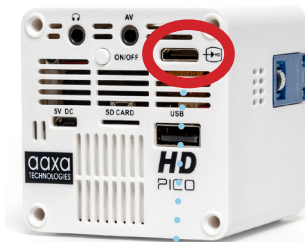
Connecting to HDMI Video Cont.

Step 3:
In the Main Menu
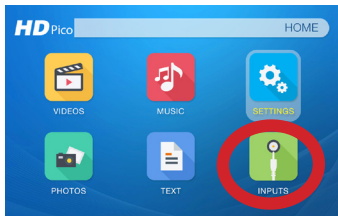
Select "INPUT" icon
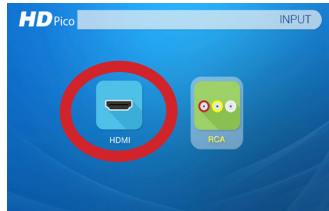
Select "HDMI" icon

Step 4:
Turn on your multimedia device. If available, select 1280x800 or 1920x1080.

Connectivity with multimedia devices
The HD Pico 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 smart phones require video out capabilities to be displayed with the HD Pico. Check with your phone manufacturer.

Connecting Speakers / Headphones
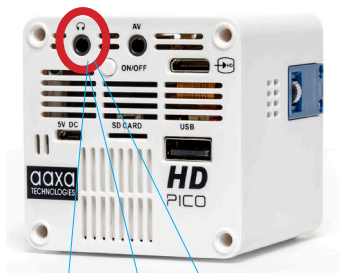
Step 1: Connect your speaker/headphones to the projector's audio port.

Step 2: Ensure that the projector and/or the headphones are 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 back of the HD Pico (facing up 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 "Specifications" section of this manual to read about the supported file formats.

(up to 32 GB)

Note: Microsoft Office and PDF file formats are not supported directly. In order to view a slideshow, you need to convert your slideshow into JPEG pictures first.

Micro SD Card Cont.
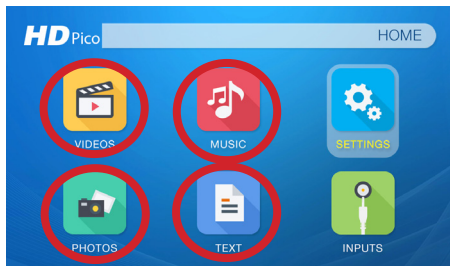
Media Player menu
- In the main menu, select the type of file you wish to play.

- Select the MicroSD icon to acess your files.

File Menu System
- The HD Pico will show all folders and files you have on your SD Card in the C: drive.
- Use the remote to navigate to different folders or files.

Return: Brings you back to the main menu

USB Drive

How to insert your USB Drive
- Slide your USB Drive into the USB port.
- Gently slide the drive until it cannot go in any further.

How to access your USB Drive
- Insert your USB Drive into the projector.
- Use the remote to choose the USB Drive icon from the main menu to access your files.
- Choose your desired file.

*Review the "Specifications" section of this manual to read about the supported file formats.

Note: Microsoft Office and PDF file formats are not supported directly. In order to view a slideshow, you need to convert your slideshow into JPEG pictures first.

USB Drive Cont.
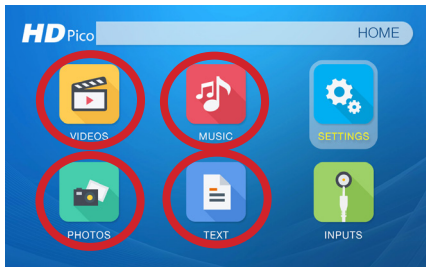
Media Player menu
- In the main menu, select the type of file you wish to play.

- Select the USB Drive icon to access your files.
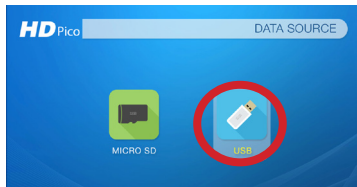
File Menu System
- The HD Pico will show all folders and files you have on your USB Drive.
- Use the remote to navigate to different folders or files.

Return: Brings you back to the main menu

Menu Screens

Chapter 3

Main Menu

The HD Pico 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.
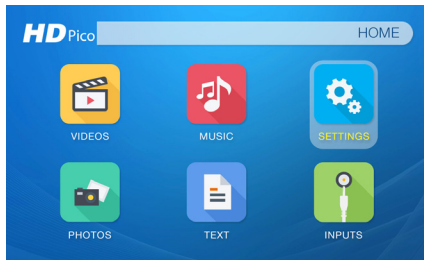
- Press the left and right directional buttons on the remote to choose an icon from the main menu.
- To select a menu option, press the "OK" button on the remote.
- To go back to the previous screen, press the "Back" button.
- To Jump back to the submenu, press the "Menu" button once.

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 stored files.
- Choose which file you wish to play.

Fig. 3.1
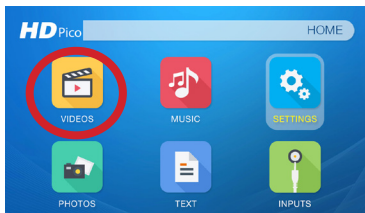
Fig. 3.2

The HD Pico will show all folders and files you have on your USB or Micro SD card. Use the remote to select folders or files.

Video Player Menu

While Playing Videos

While playing videos, the volume is adjustable. You can simply adjust volume by pressing the volume buttons on the remote. Further controls of the video are available in the video player submenu - which is accessed through the "OK" button.

(🔉) Volume Down   (🔊) Volume Up

(OK) Enter Video Player Submenu
- To open/hide the video playback menu, use the "OK" and "Back" Buttons on the remote.

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Video Player Sub-Menu

Playing Videos

The Video Player Sub-Menu can be accessed by pressing "OK" during video playback. To exit the Video Player Sub-Menu, press the "Back" button or wait 5 seconds. To navigate the Playback Menu, use the directional buttons on the remote to highlight the option you wish to choose (Fig 3.3).
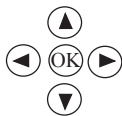
◀ Move selection left

▶ Move selection right

(OK) Confirm selection

Fig. 3.3

Video Playback FAQ

How do I loop a video?

1. Choose either USB or SD Card for playback
2. Navigate the folders until you reach the file you wish to play.
3. Choose the file you want to play.
4. Press "OK" when video is playing, then move selection left on video player menu to "Repeat A" and press "OK" until it shows "Repeat 1".
5. The video will now loop after playback is finished.

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 stored files.
- Choose the file you wish to play.
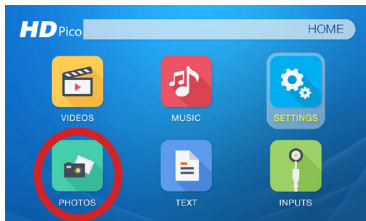
Fig 3.4   Fig 3.5

The HD Pico will show all folders and files you have on your USB or MicroSD drive.

Photo Menu

While Viewing Pictures

While viewing pictures, you can simply navigate through all images by pressing the left and right buttons on the remote. Further controls are available in the Photo Submenu - which is accessed through the "OK" button.

◀	Previous Picture
▶	Next Picture
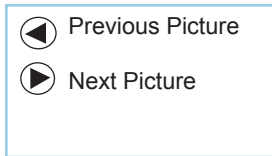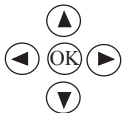
OK   Enter Photo Player Submenu
* To open/hide the Photo Playback menu, use the "OK" and "Back" Buttons on the remote.

Photo Sub-Menu

Viewing Pictures:

After pressing "OK" during picture slide-show playback, the Photo Sub-Menu appears. To exit the Photo Sub-Menu, press the "Back" button or wait for 5 seconds. Every picture is able to be rotated and zoom in/out based on the option you wish to choose on the Sub-Menu. To navigate the Sub-Menu, use the remote to move selection(Fig 3.6).

•   To open/hide the photo playback menu, use the "OK" and "Back" button on the remote.
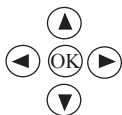
◀ Move selection left	
▶ Move selection right	(OK) Confirm selection

Fig 3.6

Photo Slideshow FAQ

How do I convert PPT to JPG?

1. First open your presentation on your PC or MAC.
2. Go to "Save As" and save your presentation as .JPG files. (Fig 3.6.1)
3. Choose "All slides". (Fig 3.6.2)
4. *If you have more than 10 slides, you must rename Slides 1-9 with a "0" in front of it or the playback order will be mixed up. If you have more than 100 slides you will need to use a "00" format. (Fig 3.6.3)
5. Copy the files either to your MicroSD Card or to the USB memory stick.
6. insert the SD Card or Memory stick into the projector.
7. View the slideshow under "PHOTOS"

File name: Presentation1
Save as type: JPEG File Interchange Format

Fig 3.6.1

Microsoft PowerPoint

Which slides do you want to export?

All Slides   Just This One   Cancel

Fig 3.6.2

Slide1   Slide01

Fig 3.6.3

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 stored files.
- Choose the file you wish to play.
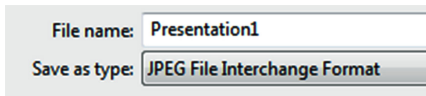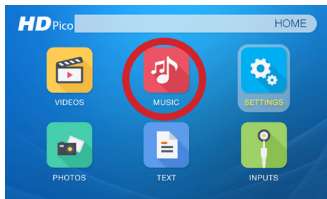
Fig. 3.7   Fig. 3.8

The HD Pico will show all folders and files you have on your USB or MicroSD drive.
Use the remote to select folders or files.

Music Player Menu

Listening To Audio:
To adjust the volume, use 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 remote to 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 remote.

◄ Move selection left	◄» Volume Up
► Move selection right	◄ Volume Down
OK Confirm selection	

Fig. 3.9

Music Playback FAQ

How do I loop a song?
1. Choose either USB or 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", 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 microSD 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:

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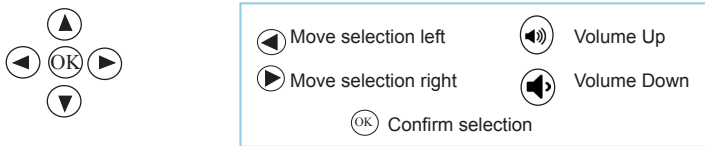- Select the "Text" icon (Fig 3.10)
- Choose which file you wish to play.
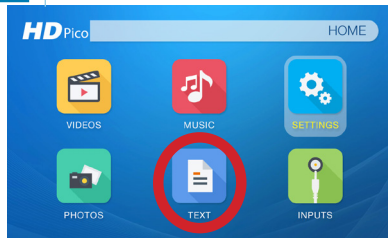
Fig. 3.10

The HD Pico will show all folders and files you have on your USB or MicoSD Drives.

Viewing Text Files:

The HD 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 remote to flip through the pages you have in the present folder.

Note: Microsoft Office and PDF file formats are not supported directly. In order 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
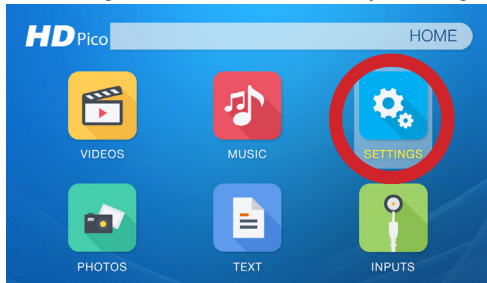
Within the settings menu there are four submenus that allow you to customize your HD Pico to the settings you want.

Picture
- Picture Mode
- Color Model
- Power Mode
- Slideshow Time
- Projection

- Aspect Ratio

Sound
- Sound Mode
- Balance
- Auto Volumn
- Surround Sound

Time
- Clock
- Off Time
- On Time
- SLeep Timer
- Auto Sleep

Option
- OSD Language
- Restore Factory Default
- OSD Duration
- Soft Version

Picture Settings

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

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

Power Mode
- Choose between Eco, Standard and Bright**

Slideshow Time
- Adjusts the time between photos

Projection
- Flips the projected image. Allows for (Rear Projection, Inverted rear projection, inverted front projection)
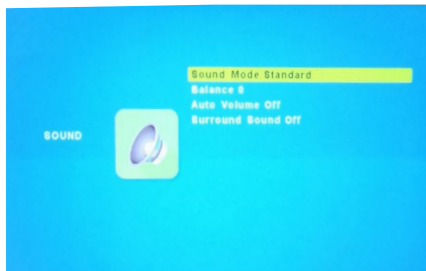
Aspect Ratio
- Changes the aspect ratio of the picture - Auto, 4:3, 16:9*

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

**Bright mode should only be used in low temperature environments with adequate clearance of exhaust / intake vents. A tripod is highly recommended. DO NOT block vents while operating in Bright mode.

Sound Settings

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

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

Auto Volume
- Not functional in the HD Pico.

Surround Sound
- Not functional in the HD Pico.

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Time Settings

Clock
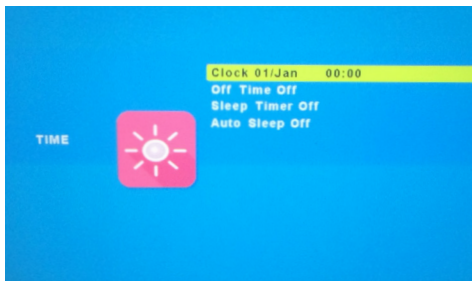- Adjust the time/date.

Off Time
- Sets a time for auto turn off of projector.

Sleep Timer
- Sets a timer until the 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.

Note: To Go Back to the Time Setting from either one above, press "Menu" button on the remote instead of the"Back" button.

Option Settings
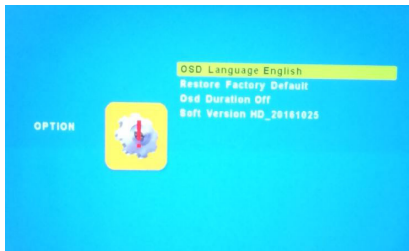
OSD Language
- Changes the language of the device. Options include English, Spanish, Chinese, German, French

Restore Factory Default
- Restores the projector to factory settings.

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

Soft Version
- Lists the firmware version your HD Pico is running

Brightness Feature

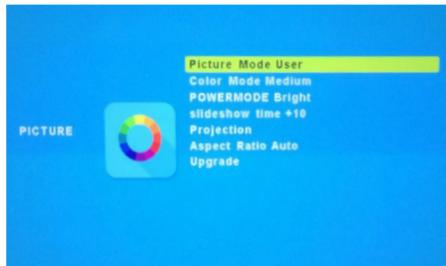There are 3 different power modes for the HD Pico: Standard, Bright, and Eco.
- Standard: A normal mode.
- Bright: The brightest mode.
- Eco: A battery saving mode that reduces picture brightness. 150 minute battery run time.

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 HD Pico 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 HD Pico projector is 1280x720. Depending on the video driver different resolutions may need to be selected for proper output.

Technical Details

Troubleshooting

THE PROJECTOR DOES NOT TURN ON

Possible Causes	Solution
There is no power	Check to ensure the power outlet source is good. Check the Power Adapter/ Micro USB Cable to ensure a proper connection with the wall outlet or computer 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

Brightness:	**50 Lumens**
Native Resolution:	**1280x720**
Contrast Ratio:	**2000:1**
Aspect Ratio:	**16:9**
Projection Lens:	**Manual Focus**
Image Size:	**10~80 inches**
Lamp:	**Triple RGB LEDs with Vibrant Color Technology Life 20,000hrs**
Video in:	**Composite A/V Mini-HDMI**
Audio Output:	**3.5 mm audio jack**
SD Card:	**MicroSD Card Slot (32GB maximum)**
USB:	**5 Pin USB 2.0 (Full Size) (32GB maximum)**
Dimensions:	**2.35" x 2.35" x 2.35"**
Weight:	**6 oz**
Supported File Formats:	**MP3, WMA, OGG, WAV, AVI, WMV, SMV, BMP, JPG, GIF, TXT**

Notes

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Please direct all customer service inquiries to:

AAXA Technologies, Inc.
1541 Parkway Loop
Tustin, CA 92780
(714) 957-1999

info@aaxatech.com